

ANNUAL WATER QUALITY MONITORING REPORT

QUINSAM COAL

Permit PE:7008

2025–2026 Monitoring Year

July 2026

Prepared for Quinsam Coal Corporation

Campbell River, British Columbia

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GLOSSARY & ACRONYMS

BC	British Columbia
BCR	Biochemical reactor
BV Labs	Bureau Veritas Laboratories
CALA	Canadian Association for Laboratory Accreditation
CCR	Coarse coal reject
CPP	Coal Processing Plant
CSR-AW	Contaminated Sites Regulations for Freshwater Aquatic Life 2023
DL	Detection limit
ENV	Ministry of Environment and Parks
EMS	Environmental Monitoring Station
Hp	Horsepower
km	Kilometer
m asl	Meters above sea level
MCM	Ministry of Energy, Mines and Low Carbon Innovation
mg/L	Milligrams per liter
NWMS	North Water Management System
P	Permit limit exceedance
PTS	Passive treatment system
PAG	Potentially acid generating
PNC	Permit non-compliance
QA/QC	Quality assurance/quality control
QCC	Quinsam Coal Corporation
RBP	River barrier pillar

RPD	Relative percent difference
SPCEFF	Sulphide polishing cell
SWMS	South Water Management System
TSS	Total suspended solids
µS/cm	Microsiemens per centimeter
VIO	Vancouver Island Objective
WQG	Water Quality Guidelines
WQO	Water Quality Objective

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EXECUTIVE SUMMARY

In accordance with the February 15, 2024, amended permit PE:7008 issued under the *Environmental Management Act*, Quinsam Coal Corporation (QCC) operates water management systems designed to mitigate the effects of mining activities on the Middle Quinsam Lake Sub-Basin and Iron River watersheds. This effluent permit provides the framework for a comprehensive monitoring program and establishes allowable levels for parameters of interest within water released from the permitted management systems. In addition to surface water quality monitoring within the management systems and receiving environments, local groundwater and biological monitoring (within the lakes) is conducted at numerous stations to provide a comprehensive understanding of environmental effects both inside and outside of the mine footprint.

The main objective of this report is to inform governing bodies and stakeholders of the effectiveness of these management systems and document compliance with the effluent permit for the 2025–2026 monitoring year (April 1, 2025, through March 31, 2026). This report includes:

- A description of mine-site operations and respective environmental management systems;
- A report on environmental performance and compliance with Permit PE:7008; and
- Updates on surface water, groundwater, receiving environment quality, and biological health.

During the reporting period, QCC ("the Mine") maintained the environmental obligations of amended permits C-172 and PE:7008. The Mines Act permit (C-172) is held with the Ministry of Energy, Mines and Low Carbon Innovation, and the Environmental Management Act permit (PE:7008) is held with the Ministry of Environment and Parks. The Mine continues to be operated in a "care and maintenance" mode with MNP Ltd. (formerly The Bowra Group Inc.) acting as the Receiver. The Mine has been in care and maintenance since May 29, 2019, managing the health and safety of employees and the environment while continuing to fulfill all regulatory requirements.

Effluent Quantity and Quality Compliance

Permitted discharge locations and criteria are prescribed in PE:7008. Mine discharges released from permitted locations were within allowable concentrations for all water chemistry parameters, with the sole exception of oil and grease at Settling Pond #1. Permit PE:7008 requires the concentration of oil and grease released from Settling Pond #1 to remain below the laboratory analytical detection limit. During the 2025/2026 period, Settling Pond #1 exhibited a measurable oil and grease concentration of 1.2 mg/L in a sample collected on April 1, 2025. This elevated reading may have been related to nearby equipment use at 3S.

The water quantity recorded at Settling Pond #4 was well below the permitted annual average rate of discharge (0.08 m³/s, equivalent to 2,522,880 m³ over 365 days). The 2025-2026 actual annual average rate of discharge was 0.049 m³/s, resulting in a total release of 1,545,638 m³.

Receiving Environment Water Quality

Sulphate concentrations at depth in Long Lake continue to be a focal point for receiving water quality, as elevated levels have persisted throughout past monitoring cycles. In 2025, average dissolved sulphate concentrations continued to decline in Long Lake, with all seasonal averages remaining below the Water Quality Guideline (WQG) of 128 mg/L (calculated using a background

hardness concentration of 30 mg/L). Average results for Long Lake at 1 m above the bottom during spring (82 mg/L), summer (77 mg/L), and fall (74 mg/L) were similar to 2024 values but remained elevated relative to concentrations observed near the surface at 1 m and 4 m depths (range: 31 to 58 mg/L).

In Middle Quinsam Lake, average results at 1 m above the bottom during spring, summer, and fall were 22 mg/L, 22.2 mg/L, and 16.8 mg/L, respectively. While historical data for Middle Quinsam Lake typically display minor variation between depths, summer monitoring this year showed the highest concentrations at the surface (1 m and 4 m depths), averaging 50 mg/L. The average concentrations throughout the seasons at 1 m and 4 m depths ranged from 12.56 mg/L to 50.2 mg/L, while concentrations at 9 m and 1 m above the bottom ranged from 15.82 mg/L to 22.4 mg/L.

Passive Treatment and Groundwater Systems

The Passive Treatment System effectively lowered mine pool water levels in the 2-South mine, reduced sulphate concentrations from mine pool water pumped to the surface and maintained a water cover over the 2-South Potentially Acid Generating-Coarse Coal Reject (PAG-CCR) facility. Dissolved sulphate enters the system from the flooded mine void at the influent (INF), travels through the system to the Sulphide Polishing Cell (SPCEFF) and exits via the final discharge at the SPD. In 2025/2026, the annual average dissolved sulphate concentrations at INF, SPCEFF, and SPD were 511 mg/L, 304 mg/L, and 270 mg/L, respectively. These results indicate that internal dilution and treatment pathways successfully reduced overall sulphate concentrations. Dewatering efforts from the 2/3-South mine void resulted in declining seepage rates at the Long Lake Seeps.

No flow was recorded at the main Long Lake Seep (LLSM) from late April to November 2025; however, flows recurred from November 2025 to March 2026 when mine water elevations rose, which is considered a bypass of the authorized works. The smaller Long Lake Seep (LLS) maintained negligible flow throughout the season. When the mine water elevation drops below approximately 304 m above sea level (asl) the LLSM ceases to flow.

Bypasses of the authorized works also occurred in the 2-North Mine area, where mine water interacts with perched water tables at seepage areas S, S2A, and S2B. These areas flowed throughout the monitoring year, except from August to November when the mine water elevation was successfully drawn down to approximately 220 m asl.

Additional monitoring included 210 sample sets from in-situ and ex-situ groundwater wells, underground sumps, and dewatering wells across the 2/3-North, 2/3-South, 4-South, 5-South, and 7-South mine areas. All locations except for 7-South (QU08-13 A/B and QU1410), 2-North Mine, and QU1109M, were compared against the British Columbia Contaminated Sites Regulation Aquatic Life standards (CSR-AW, Schedule 3.2, last amended March 1, 2023). These standards are primarily used to evaluate ex-situ groundwater quality outside of the active mine footprint. Certain parameters in ex-situ groundwater continually exceed CSR-AW guidelines, including dissolved arsenic, chloride, fluoride, and sulphide as hydrogen sulphide as H²S, alongside occasional detections of selenium. Selenium is observed periodically in the deep ex-situ

groundwater of well QU1105D, which monitors water quality and vertical gradients downstream of the 2-North Mine and River Barrier Pillar.

In contrast, key parameters of interest within the primary receiving environment (the Quinsam River) such as arsenic, iron, sulphate, and selenium were all isolated in low concentrations well below established WQGs (except for arsenic within the Iron River watershed). QCC remains committed to long-term trend monitoring as an essential tool to identify and manage shifts in local groundwater tables.

Mine De-risking programs

In addition to care and maintenance work, to establish safe long-term conditions for the mine site the Receiver is undertaking a de-risking program in conjunction with the British Columbia Ministry of Energy, Mines and Low Carbon Innovation. The de-risking program is focused on activities that will minimize or eliminate the requirement to access the underground workings, so that health and safety risks can be mitigated, and care and maintenance costs reduced. During the 2025-2026 monitoring year, the program was active on three areas:

1. 7-South Test Flood

Initiated in Fall 2024 and currently ongoing, a portion of the 7-South underground workings was allowed to flood with water. Mine staff are actively monitoring surrounding groundwater levels and localized seepages. The long-term objective is to allow the full 7-South area to flood naturally, aligning with the original approved mine closure plan.

2. 2-North PAG CCR Management

An engineered cover was placed over in-situ materials to restrict oxygen migration and mitigate the long-term risk of acid rock drainage generation. Final soil cover placement is still pending.

3. 2-North Passive Dewatering Test

The River Barrier Pillar Treatment System (RBPTS) successfully managed iron attenuation and mitigated mine pool migration through passive treatment and optimized baffles, achieving a 91% maximum reduction in total iron concentration. Operations maintained dilution ratios that were protective of the downstream aquatic life, as validated by the water quality results in the Quinsam River compared to Trigger 2 and water quality guidelines in addition to a 100% survival rate across all salmonid acute toxicity bioassays. By dynamically balancing the mine-controlled discharge against ambient receiving volumes, the system was effective for environmental protection during high flows November 20th, 2025, to March 31st, 2026. Refer to Appendix VI for system performance details and water quality results.

Aquatic Biology & Sediment Health:

Quinsam Coal Corporation completed the 2025 Sediment and Benthic Invertebrate Monitoring Program to assess sediment quality, benthic macroinvertebrate community conditions, and

potential mine-closure related effects in the Quinsam River receiving environment. This program was initiated following temporary mine-water releases associated with 2024–2025 mine-site de-risking activities. The compiled data supports the ongoing three-year receiving environment monitoring program for the River Barrier Pillar Treatment System and related site closure activities.

Environmental monitoring across eight specialized river stations confirmed that elevated copper and iron concentrations are natural, upstream background traits of the watershed. Localized arsenic sediment enrichment occurs near station QRD-02 due to historic, iron-rich groundwater seeps; however, these concentrations attenuate steadily downstream with zero progressive accumulation. Biological testing verified diverse, functional macroinvertebrate communities rich in pollution-sensitive taxa across all monitoring stations, indicating no widespread adverse impacts on the overall health of the receiving river ecosystem.

1.0 INTRODUCTION

The Quinsam Mine, situated approximately 28 kilometers southwest of Campbell River in the Quinsam River Watershed, covers around 283 hectares. Owned and operated by Quinsam Coal Corporation (QCC), the mine produced High Volatile “A” Bituminous thermal coal until May 2019 when operations were suspended.

During active mining, coal was processed on-site and transported by B-train highway trucks to the Middle Point Barge Terminal, from where it was shipped to local customers and exported via Texada Island. Given its proximity to ecologically sensitive areas like Middle Quinsam Lake, the Quinsam River, No Name Lake, and Long Lake (which drain into Lower Quinsam Lake), the mine adheres to stringent effluent quality standards set by permits (*Environmental Management Act* Effluent Permit PE-7008 and the C-172 *Mines Act* permit). QCC collaborates with regulators and stakeholders to minimize environmental impact.

This report was prepared to meet the PE:7008 permit requirement for an annual review and interpretive report to be submitted by June 30 of each year. The annual report is required to include:

- A summary of monitoring results from the previous twelve months;
- A record of spills or unusual events;
- A description of changes in the environment resulting from mining activity;
- A summary of completed or in progress activities or studies relevant to the permitted discharges, associated authorized works, and the receiving environment relevant to the reporting period; and
- A description of projected activities for the coming year, which may have an impact on the environment.

2.0 WATER MANAGEMENT SYSTEMS AND MONITORING LOCATIONS

In accordance with the C-172 and PE:7008 permits, QCC operates water management systems designed to mitigate effects of mining activities on the Middle Quinsam Lake Sub-Basin and Iron River watersheds. PE:7008 provides the framework for a comprehensive monitoring program along with allowable levels of parameters of interest within water released from the permitted water management systems.

Settling ponds, sumps, and ditches have been constructed to manage and treat mine contact water to help mitigate the potential for negative effects on the receiving environment. Strategic operation maintains water that is suitable for release into the receiving environment according to permit requirements. Water management at the Quinsam Mine is divided into three discrete areas: North, South, and 7-South, which handle cumulative mine-related discharges to the Quinsam watershed.

Appendix IX, Site Maps, displays underground mine locations, groundwater wells, and surface monitoring sites. Appendix I, Table 1, and Table 2-1 below describe the monitoring sites.

Table 2-1: Description of Effluent, In-Mine Releases & Receiving Environment Monitoring Sites

EMS ID #	Monitoring Sites	Abbreviation (Station Code)	*Type of Water (MW, FW or GW)
North Coal Mining Operation			
E207409	Settling Pond #4 Decant	WD	Discharge (MW)
E207411	Culvert, at Middle Quinsam Lake Road	WC	MW & FW
E283433	2-North Portal Sump (Adit Sump)	2NPS	MW
E207412	2-North Pit Sump CCR Cover	WP	PAG-CCR Water Cover - MW
South Coal Mine			
E218582	Settling Pond #1 Decant	SPD	Discharge (MW)
E217014	Culvert, Downstream End at Access Road	SPC	MW & FW
E217015	South Pit Main Sump Water	3S	PAG-CCR Water Cover (MW & FW)
E292127	2-South Pit In Pit Water Cover (2-South Standpipe)	2S	PAG-CCR Water Cover (MW & FW)
7-South Mining Operation			
E292069	7-South Surface Decant	7SSD	Discharge (SW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	GW / MW
	Groundwater surfacing with potential mine influence near QU1109	S and SUS	GW / SW
	Artesian spring with potential mine influence near QU1105	S2A	GW / SW
	Groundwater surfacing with potential mine influence near QU1105	S2US and S2B	GW / SW
Receiving Environment Monitoring Sites - Near Initial Zone of Dilution (NIDZ)			
Near Initial Dilution Zone (NIDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake near the outlet)	LLE	NIDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	NIDZ
Receiving Water (Rivers & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mining Operation			
E0126402	Quinsam River at Argonaut Bridge	WA	FW
E206618	Middle Quinsam Lake Centre	MQL (1, 4, 9 & 1m from Bottom)	FW
E0900504	Outflow from Middle Quinsam Lake	WB	FW
South Coal Mine			
E217018	No Name Lake	NNL (1, 4, 9 & 1m from Bottom)	FW
E217017	No Name Lake Outlet	NNO	FW
E206619	Long Lake at Centre	LLM (1, 4, 9 & 1m from Bottom)	FW
E219412	Long Lake Outlet	LLO	FW
7-South Mining Operation (Areas 1 to 4)			
E286930	Quinsam River Upstream of 7-South Mining Operation	QRDS1	FW
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South Area 5 Mining Operation			
E297231	Iron River upstream of 7SA5 and 242 influence	IR6	FW
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	FW
E299256	Quinsam River downstream of confluence with Iron River	IRQR	FW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the Passive Treatment System (PTS)	QU11-11 (INF-EFF)	MW
N/A	Biochemical Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow (From Passive Treatment System)	2SI	MW
N/A	2-South Culvert into 3-South Pit (Seepage under liner and overflow from 2S-pit)	2SC	MW

*MW=Mine Water, FW=Freshwater, GW=Groundwater, SW=Surface Water, NIDZ=Near Initial Dilution Zone, PTS=Passive Treatment System, PAG-CCR=Potentially Acid Generating Coal Coarse Reject

2.1 MINE RELATED DISCHARGE

2.1.1 THE NORTH WATER MANAGEMENT SYSTEM

The Quinsam Mine employed a comprehensive water management system to handle mine-related runoff and underground water. In 2025-2026 the water management systems were reconfigured as the mine was flooded and closed. The below describes the old and new pumping system for 2-North Mine.

North Water Management System (NWMS):

- Collects runoff from disturbed surface areas in the north.
- Also receives pumped water from the 2-North underground flooded mine.
- Components include catchment sumps, ditches, pipelines, and Settling Pond #4.

2-North Mine Dewatering Components:

The 2-North Mine utilizes a network of pump systems. These included:

- 1 Mains 2-North (1M2N),
- 5 Mains 2-North (5M2N),
- 3 Mains 2-North (3M2N),
- 2-North Portal Sump (2NPS), and
- South Dyke Sump (SDS).

Table 2-2 describes the underground and surface pumps systems and Figure 2.1 describes the 2-North pumping network.

Table 2-2: 2-North Pump System

Area	Type of Pump – Horsepower (Hp)	Total Pumping Capacity, Gallons per minute (GPM)	Operational Period in 2025 - 2026
1M2N	1 x 125 Hp	800	Until January 2026 (Shut down)
5M2N	1 x 125 Hp	800	Until January 2026 (Shut down)
3M2N	2 x 250 Hp	5000	Until May 2025 (Decommissioned)
2NPS	1 x 58 Hp (1 on standby)	800	Intermittent
SDS	1 x 58 Hp	800	Intermittent

South Dyke Sump (SDS) and Redirected Water:

- SDS collects seepage water from the south side of the tailings dam.
- When 5-South dewatering pump was operating, combined 5-South and 7-South mine water was redirected into boreholes above 3M2N.

2-North Portal Sump, (2NPS) Environmental Monitoring Station EMS # E283433:

Collects seepage water from the following:

- Tailings Storage Facility (TSF),
- 2-North Pit Sump,
- South Dam, and
- Underground 1Mains roadways.

Combined water is pumped via 58 Hp pump into Brinco Brook or 2-North Pit Sump.

2-North Pit Sump (WP), EMS #E207412:

- Subaqueous Potentially Acid Generating-Coarse Coal Reject (PAG-CCR) facility.
- Covered with a liner in 2025 - Reclaimed.

Settling Pond #4 (SP4/WD), EMS #E207409:

- Authorized discharge location for NWMS, where water quality and quantity are compared to permit limits (PE:7008).
- Collects gravity-fed water from Brinco Brook
- Acts as the final collection point before discharge into a meadow/biomass system.
- Approximately 2.4 ha of marshland with a storage capacity of 30,000 m³.

Culvert, at Middle Quinsam Lake Road (WC), EMS #E207411:

- Downstream location from SP4, discharge water from SP4 and meadow/biomass system.
- Last monitoring point before entering Middle Quinsam Lake near the inlet.

Figure 2.1, provides a flow chart describing the flow paths of water in the 2-North Water Management System.

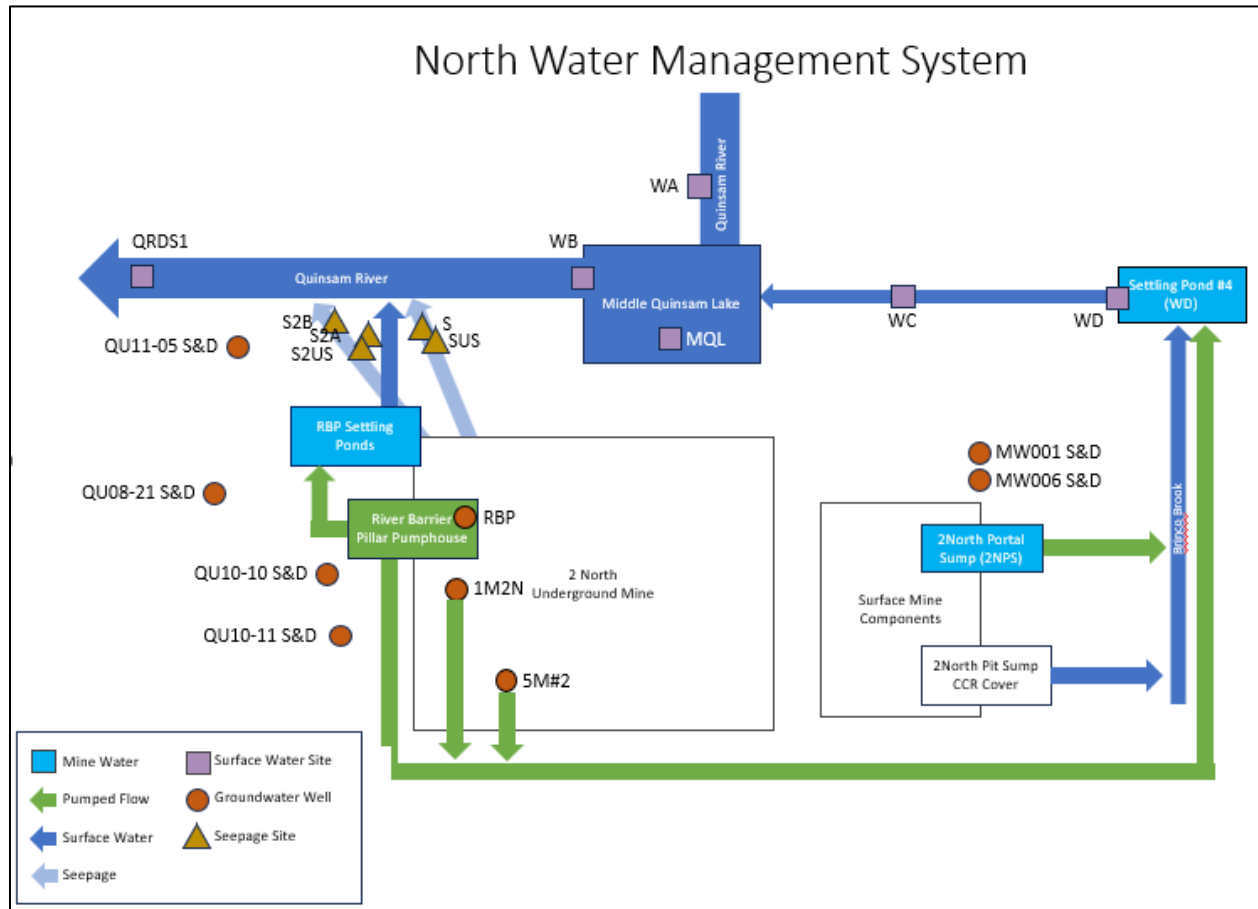


Figure 2.1: Water Movement and Flow Path in the North Management System

2.1.2 THE SOUTH WATER MANAGEMENT SYSTEM

South Water Management System (SWMS):

- SWMS collects mine-related runoff from disturbed surface areas in the south.
- It manages water in the 2-South and 3-South PAG-CCR containment pits and the Passive Treatment System (PTS).

2-South Pit (2S), EMS #E292127:

- Constructed in 2014, the 2S pit has a clay-bentonite liner to retain water.
- Water cover fed by ditches and pipes collects local catchment water.
- PTS discharge diverted into 2S pit to maintain permanent water cover (1.7 m).

3-South Pit (3S), EMS #E217015:

- Excess water from 2S pit overflows into 3S pit.
- Seepage from under 2S pit liner directed to 3S pit.
- Continuous outflow from 2S pit recorded at H-Flume before entering 3S pit.

Pumps and Settling Ponds:

- In January 2021, a 58 Hp pump was installed in 2S pit.
- Discharge from 58 Hp pump ties into 3S pipeline.
- Excess water in 3S pumped via an 88 Hp pump to Settling Pond #1.
- Settling Pond #1 is the authorized discharge location before water enters Long Lake.

PTS and Decommissioned Ponds:

- Borehole QU11-11 (INF), dewateres 2-South flooded mine void via 15 Hp pump.
- Objective is to lower mine-pool below the elevation of the Long Lake Seeps.
- Water is pumped from INF to the Biochemical Reactor (BCR) and passively flows to the Sulphide Polishing Cell (SPCEFF).
- Only BCR and SPCEFF ponds currently operating; other pond (Aeration Lagoon and Settling Pond) decommissioned.
- BCR contains substrates and sulphate reducing microorganisms that reduce sulphate to hydrogen sulfide in the mine water through anaerobic respiration.
- SPCEFF contains iron filings that sequester the hydrogen sulfide for further reduction.
- Water from SPCEFF passively flows to the 2-South Inlet (2SI).

Settling Pond #1 (SP1), EMS #E218582 and Downstream:

- SP1 is the authorized discharge location for SWMS where water quality and quantity are compared to permit limits (PE:7008).
- SP1 channel leads into a series of meadow/biomass systems.
- Discharges at a pond / wetland (LLE) near the outlet of Long Lake.

Monitoring Locations:

- Monitoring location SPC (EMS #E217014) is downstream of the 4-South pad and 4S-Lo.
- SPC does not interact with effluent from 4-South but captures SP1 discharge.
- The final collection point LLE (EMS #E292130) is located at the downstream end of a culvert leading into Long Lake.
- LLE drains a wetland and discharges approximately 50 m upstream of Long Lake near the outlet.

Figure 2.2: South Water Management System below provides a flow chart describing the SWMS.

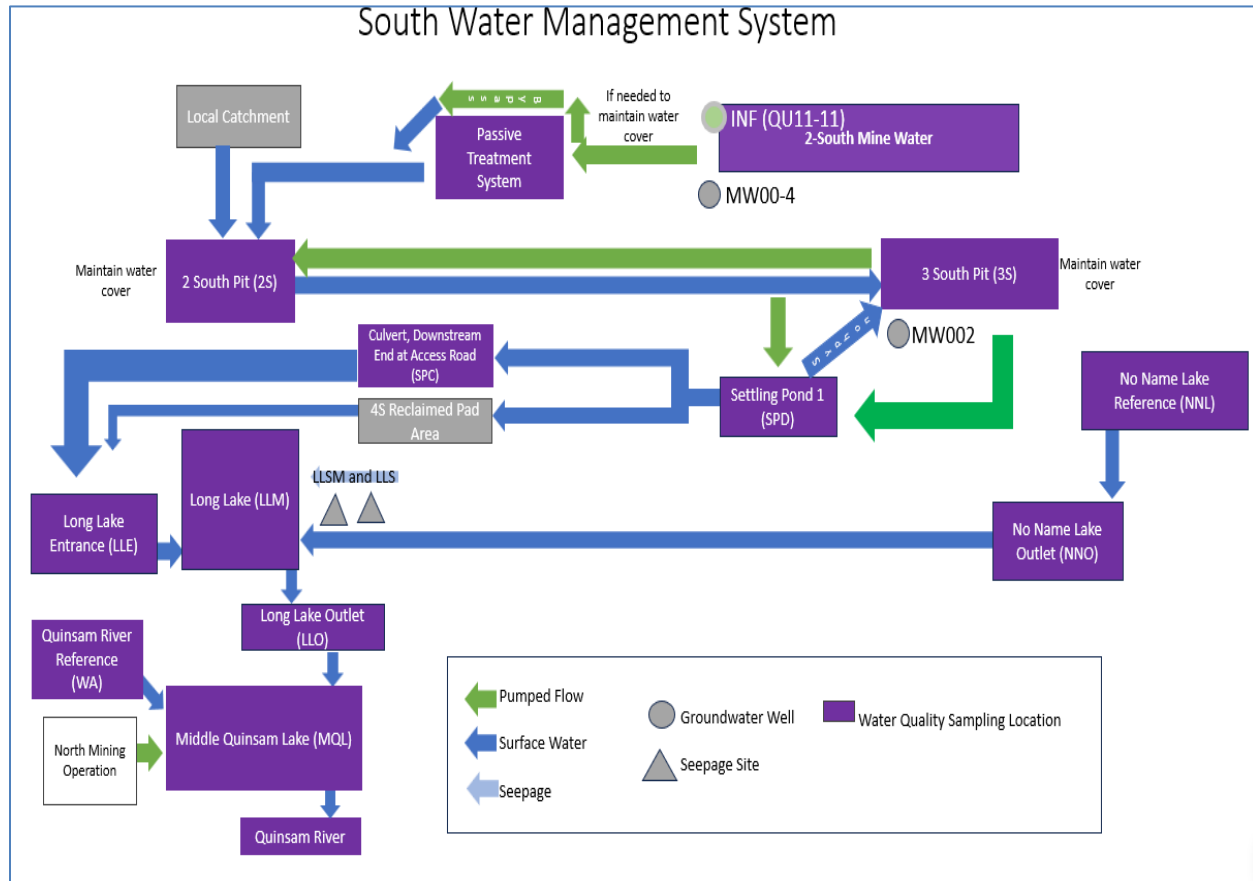


Figure 2.2: South Water Management System

2.1.3 7-SOUTH WATER MANAGEMENT SYSTEM

7-South Water Management System

Refer to Figure 2.3.

Sump and Pond Locations:

- 7-South Surface Decant Settling Pond (7SSD) EMS #E292069,
- 7-South-Adit Sump (7SPS) EMS #E292110, and
- 7-South Containment Pond (7SCP).

Receiving Environment Sites Downstream:

- Stream 1 (7S) EMS #E292109.

Purpose and Design:

- Manages excess water from the 7-South catchment area.
- Mitigates environmental impacts from disturbed surface locations affected by mining and underground activity.

Main Ponds**7SPS:**

- Collects surface water from the coal storage pad and 7S ponds (7SSD and 7SCP).
- 58Hp pump dewater 7SPS into 5-South flooded mine void.
- Pumped underground 7S mine water (7SA5 and 1M7S) ties into the pipeline transporting 7SPS water into 5-South mine void.

7SCP:

- Collects surface runoff, local groundwater, and infiltration water.
- Suspended solids settle before water enters 7SSD.
- Enlarged in 2015.
- Additional pumps decrease 7SSD discharge.

Authorized discharge location, 7-South Surface Decant Settling Pond (7SSD) EMS #E292069 (not active):

- Permitted discharge location and main water collection pond.
- Receives water from groundwater infiltrated from hillsides and coal storage pad.
- Monitored for quality and quantity during discharge events.
- Discharged via 2-inch line with adjustable valve based on downstream flow rates.
- Protects Stream 1 receiving environment with an 8:1 dilution ratio.

Water Flow and Management:

- Revised system pumps water from 7SSD and 7SCP to 7SPS where water is directed underground, eliminating discharge from 7SSD.
- Automated float system at 7SCP keeps water levels below overflow channel into 7SSD.
- Secondary pump activated during high precipitation events.

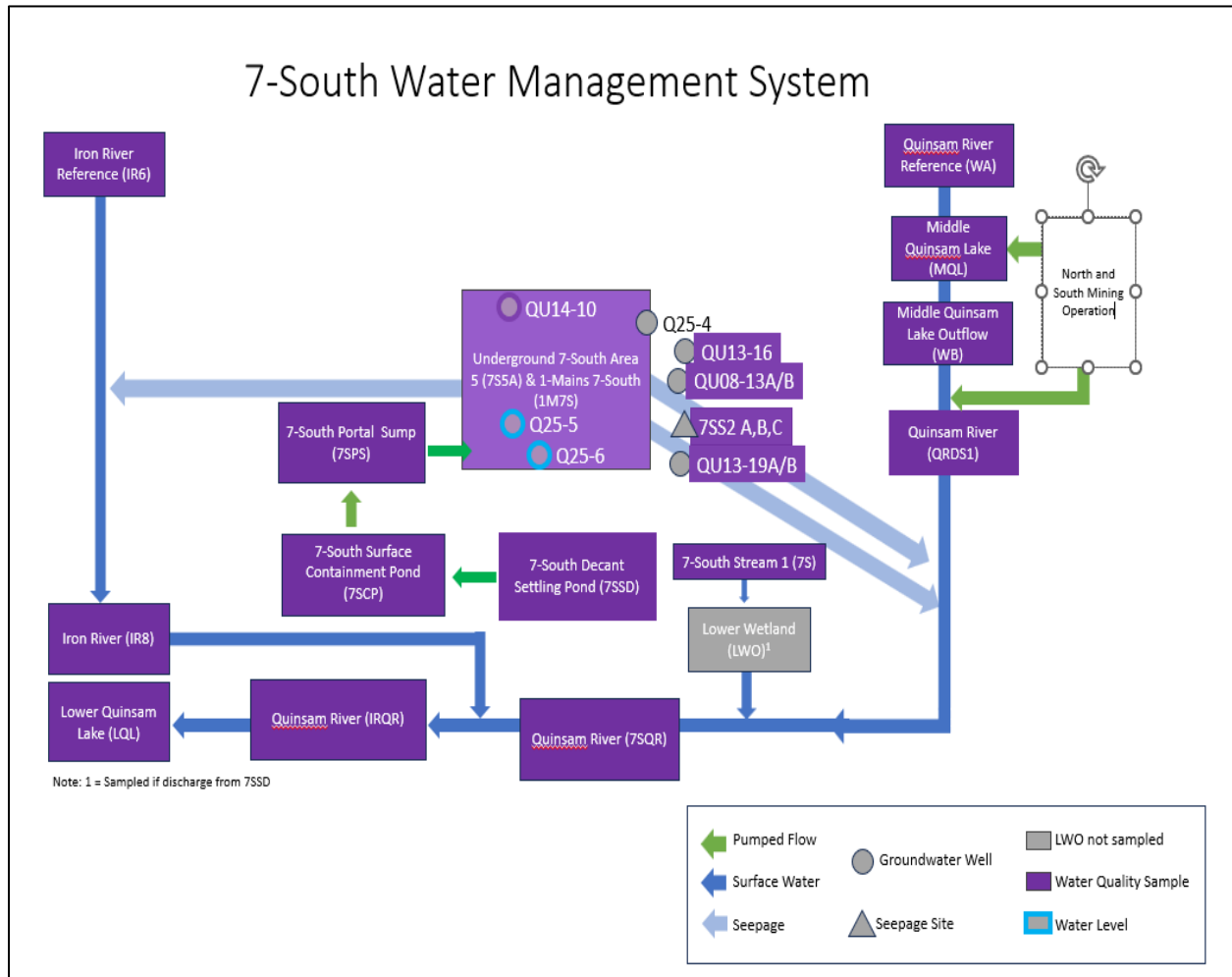


Figure 2.3: Water Movement and Flow Path at the 7-South Operation

Receiving Environment Sites

2.1.4 RIVER, STREAM & LAKE MONITORING SITES

Permit PE:7008, specifically Section 4.2.3, designates monitoring sites in rivers, streams, and lakes. These sites serve as representatives of the receiving environment for discharges related to mining activities. Monitoring occurs at most of these sites on a 5 in 30 sampling frequency, meaning five events within a 30-day period, during the spring, summer, and fall seasons. E297231 and E297232 on the Iron River are only required to be monitored in summer and fall. Table 2-1 provides a summary of the receiving environment monitoring sites and a brief description of each site is provided below.

Rivers and Streams in the Middle Quinsam Lake Sub-Basin

Quinsam River at Argonaut Road (WA), EMS #0126402:

- Located upstream of all mine-related discharges.
- Represents background conditions for water quality comparisons.

Outflow from Middle Quinsam Lake (WB), EMS #0900504:

- Located at the outflow of Middle Quinsam Lake.
- Represents the combined discharge from North and South water management systems.

No Name Lake Outlet (NNO), EMS #E217017:

- Located at the outflow of No Name Lake.
- Not presently influenced by surface mine-related discharge in the South.

Long Lake Outlet (LLO), EMS #E219412:

- Located at the outflow of Long Lake.
- Captures all South mine-related inputs on the surface and a percentage of groundwater (i.e., LLE and Long Lake Seep).

Quinsam River Downstream Site 1 (QRDS1), EMS #E286930:

- Located downstream of Middle Quinsam Lake Outflow (WB), the North Mining Operation, and upstream of the 7-South Mining Operation.
- Captures changes in water quality before the 7-South Mine and groundwater inputs related to mining.

7-South Quinsam River (7SQR), EMS #E292113:

- Quinsam River downstream of QRDS1 and 7-South Mining Operation.
- Captures incremental changes in water quality that may be attributed to flooded 7-South PAG-CCR storage (2Mains).

Iron River –7-South Area 5 (7SA5)**Iron River Upstream of 7SA5 and 242 potential groundwater inputs (IR6), EMS #E297231:**

- Located upstream of any mine-related activity.
- Reflects reference conditions in an area with different geologic formations.

Iron River downstream of 7SA5 and 242 potential groundwater inputs (IR8), EMS #E297232:

- Downstream monitoring site on the Iron River.
- Used to monitor the potential influence of 7SA5.

Quinsam River downstream of the confluence with the Iron River (IRQR), EMS #E299256:

- Represents the cumulative mine-related discharge.

Lakes**No Name Lake (NNL), EMS #E217018:**

- Located within the South mine development area.
- Not presently influenced by the mine.

Long Lake (LLM), EMS #E206619:

- Located within the South mine development area.
- Receives water from No Name Lake, 2 and 3 South flooded mine voids, and 3-South Pit as groundwater and surface water (Long Lake seeps).
- The outlet end receives seepage from 4-South flooded mine pool (estimated at 0.14 m³/day) and south water management discharge (LLE).

Middle Quinsam Lake (MQL), EMS #E206618:

- Located adjacent to the North mine development area.
- Receives all discharge from the NWMS and upstream (non-mine related) inputs.
- Long Lake flows into Middle Quinsam Lake at the south end near the outlet (WB) via a small tributary stream (LLO).

Lower Quinsam Lake (LQL), EMS #E292118:

- Located well below mine-related discharges.
- Reflects the combined influences of Quinsam River and Iron River water quality.

2.1.5 GROUNDWATER MONITORING SITES

The 2025–2026 groundwater monitoring program evaluated sub-surface water quality, hydraulic gradients, and water table elevations across the mine footprint. Monitoring operations encompassed 210 individual sample sets collected from both in-situ and ex-situ monitoring networks. These networks include shallow and deep monitoring wells, underground sumps, and dedicated dewatering wells situated across the 2/3-North, 2/3-South, 4-South, 5-South, and 7-South mine areas. Numerous groundwater observation wells in the vicinity of pits 2N, 2S, 3S, 4S, Block 242, and 7S are monitored.

To evaluate potential migration outside of active operational zones, water quality data from ex-situ monitoring locations were benchmarked against the British Columbia Contaminated Sites Regulation Aquatic Life standards (CSR-AW, Schedule 3.2, last amended March 1, 2023). Precise monitoring infrastructure details, well coordinates, and comprehensive water chemistry datasets are maintained within the following technical attachments in:

- **Well Network & Hydrogeology:** Appendix I, Table 32 lists groundwater wells, locations, and the specific geological setting of these monitoring points.
- **Water Chemistry Records:** Appendix I, Tables 33 to 38 present the full baseline water chemistry analytical data collected throughout this monitoring year.
- **Regulatory Exceedances:** Appendix I, Table 5B (Ex-Situ Groundwater Results Above CSR-AW) isolates all specific analytical parameters that measured above provincial aquatic life thresholds.

2.1.5.1 Regional Groundwater Quality Exceedances

As established in historical monitoring cycles, certain dissolved parameters within deep, ex-situ groundwater wells routinely exceed the baseline British Columbia *Contaminated Sites Regulation* Aquatic Life (CSR-AW) thresholds. During the 2025–2026 monitoring period, these parameters included:

- **Dissolved Arsenic:** Isolated primarily within historical iron-rich groundwater corridors.
- **Fluoride:** Persistent at deep, connate groundwater horizons outside the active mine footprint.
- **Sulphide (as H₂S):** Present under strongly reducing, anaerobic sub-surface conditions.
- **Dissolved Sulphate:** Concentrated down-gradient of historic source zones within the 2-South mine pool.

These elevated parameter profiles remain localized to deep groundwater systems and are compiled explicitly in Appendix I, Table 5B. As verified by surface water data (see Section 5.4), these constituents do not influence the primary receiving environment of the Quinsam River, where concentrations for all parameters of interest remain consistently below applicable Water Quality Guidelines (WQGs).

Spatial Distribution of Regulatory Exceedances

1. 2/3-North Mine and River Barrier Pillar Area

Groundwater tracking down-gradient of the 2-North Mine footprint identifies localized geochemical anomalies constrained to specific sub-surface horizons. Deep monitoring well QU1105D demonstrated a 100% exceedance frequency for Dissolved Selenium (Se), with 4 out of 4 quarterly verification samples measuring above the 0.02 mg/L regulatory threshold on May 13, June 16, October 9, 2025, and February 12, 2026. Adjacent shallow wells remained fully compliant.

Stagnant, anaerobic conditions at this node also generated 8 separate exceedances for Sulphide (as H₂S) at QU1105D, with values ranging from 17 mg/L to 49 mg/L. The shallow well, QU1105S, logged 7 lower-level exceedances over the same period, ranging between 0.055 mg/L and 0.25 mg/L.

Ex-situ groundwater wells in the 2-North perimeter loop (QU0821GS, QU0821GD, and QU1011D) also returned parameters above standard thresholds. Dissolved Arsenic (As) exceeded the 0.05 mg/L standard in 100% of the samples at QU0821GS (3 out of 3, averaging 0.21 mg/L) and QU0821GD (3 out of 3, averaging 0.17 mg/L), while QU1011D registered a single exceedance at 0.0925 mg/L. Deep structural pathways across these three wells also combined for 3 separate Sulphide (as H₂S) exceedances.

2. 2-South Mine Footprint

Sub-surface migration tracking within the 2-South Mine block isolates elevated heavy metal and anion loading inside the historical pit footprint. Regulatory ex-situ well MW005 recorded persistent exceedances for Dissolved Sulphate (SO₄-), (Out of 3 seasonal verification samples collected at this node, 3 exceeded the maximum comparative site standard of 1,280 mg/L (100% frequency), yielding analytical results of 1,600 mg/L on June 11, 2025; 1,700 mg/L on August 25, 2025; and 1,500 mg/L on February 19, 2026.

3. Flooded 3-North Mine Area

Deep groundwater validation inside the flooded 3-North underground workings confirmed stable, bounded concentrations of native minerals. Deep monitoring well QU1103 experienced a 100% exceedance frequency for both Fluoride (F) and Dissolved Arsenic (As) across all 8 seasonal sampling rounds. Fluoride values maintained a tight operational range between 2.3 mg/L and 2.8 mg/L against a 2.00 mg/L guideline, while dissolved arsenic trends tracked steadily between 0.314 mg/L and 0.335 mg/L, reflecting the iron-rich composition of the surrounding geological sub-horizon.

2.2 ADDITIONAL MONITORING PROGRAMS

QCC conducts a diverse environmental monitoring program governed largely by the effluent permit PE:7008. All historical to current Environmental Monitoring reports can be found on Quinsam Coal's environmental reporting data site:

<http://www.quinsamcoalenvironmentalreports.com/>

2.2.1 BIOLOGICAL MONITORING

Monitoring completed in 2025 for phytoplankton and zooplankton is described in sections 4.3, 4.4, and 5.5. Sediment and benthic invertebrate monitoring are also required at receiving environment sites according to PE:7008 Sections 4.2.4 and 4.2.7. This sampling was last completed in 2025 with results available in Appendix (X). Sediment and benthic invertebrate monitoring are required every three to five years.

2.2.2 LONG LAKE SEEP PASSIVE TREATMENT SYSTEM (PTS)

The Long Lake Seep PTS consists of a series of treatment cells designed to receive mine-water pumped from the 2-South underground workings to reduce parameters of interest concentrations including dissolved sulphate and iron. This system was initiated as part of a remediation plan to limit localized mine-water seepage on the south-side of Long Lake (Long Lake Seeps) because of subsidence caused by mining within close proximity and establishing an evident hydrologic connection. Dewatering the 2-South Mine into the PTS reduces the water levels underground below the elevation of the seeps and prolongs the period of “no flow” observed. This system aids in maintaining a water cover over 2-South Pit.

2.2.3 MINE SITE DE-RISKING PROGRAMS

2.2.3.1 Program Overview

In addition to routine care and maintenance work, the Receiver is executing an active site de-risking program in coordination with the British Columbia Ministry of Energy, Mines and Low Carbon Innovation. The primary objective of this program is to implement engineering controls that minimize or eliminate the requirement to physically enter or access underground workings. By establishing these safe, long-term conditions, the Mine can permanently mitigate structural health and safety risks while significantly reducing ongoing care and maintenance infrastructure costs. During the 2025–2026 monitoring period, de-risking operations focused on three strategic areas: the 7-South underground workings, 2-North waste management, and the 2-North passive water treatment configuration.

2-North PAG-CCR Management

To mitigate the risk of long-term acid rock drainage generation, an engineered cover was constructed and placed over the in-situ Potentially Acid Generating Coarse Coal Reject (PAG-CCR) material. This barrier is engineered to minimize oxygen migration through the core material. The structural cover is complete; however, final soil cover placement and subsequent revegetation remain scheduled for upcoming site works.

2-North Mine Dewatering Test

The 2-North Mine de-risking program at the Quinsam Coal Mine was implemented to manage environmental risks associated with a flooded underground mine following closure. The program is conducted under the direction of MNP Ltd., with oversight from the British Columbia Ministry of Energy, Mines and Low Carbon Innovation and technical support from Lorax Environmental Services (Lorax, 2025; 2026). A key component was the 2-North Mine Dewatering Test (February–July 2025), which evaluated controlled mine water discharge, tested the River Barrier Pillar (RBP) pilot treatment system, and assessed impacts to groundwater, seepage, and the Quinsam River.

The RBP system is essentially a controlled “release valve” for mine water, combined with a basic treatment system. Instead of water leaking out unpredictably through the ground, it is brought to surface through engineered wells, treated, and safely discharged, allowing operators to control both how much water leaves the mine and what its quality is.

The River Barrier Pillar (RBP) system is a water management approach developed for the 2-North underground mine to safely control and discharge mine water while protecting the Quinsam River. It is located within the river barrier pillar, the portion of rock left in place between the underground mine workings and the river to prevent direct hydraulic connection. The system uses engineered boreholes (RBP wells) drilled from surface into the flooded underground mine. When the mine pool level rises above the elevation of the well outlets (~228 m asl), mine water is able to flow passively out of the mine through these wells without the need for pumping.

Results confirm that mine pool elevation is the primary control on environmental risk. When water levels exceeded ~220 m asl, the mine became hydraulically connected to shallow groundwater, increasing seepage flow and the transport of mine-related constituents such as sulphate and iron. Although the RBP pilot system reduced suspended solids and iron, performance declined at higher flow rates, resulting in periodic exceedances at the discharge point. Despite these localized effects, downstream water quality in the Quinsam River remained within environmental thresholds, with no evidence of acute toxicity. Overall, the test successfully demonstrated that controlled dewatering, coupled with treatment and monitoring, can effectively manage risk and provided the technical basis for the design of a long-term, full-scale RBP water management system (Lorax Environmental Services, 2026).

The development and construction of the full-scale River Barrier Pillar Treatment System (RBPTS) was initiated in late summer (August 2025) with discharging commencing in November 2025. Refer to Appendix VI for a summary of the Full-Scale system performance.

7-South Flood Test

The 7-South test flood was initiated in Fall 2024 and remains ongoing. A designated section of the 7-South underground workings was isolated and allowed to flood naturally with water. Site personnel are actively executing a localized monitoring plan to track groundwater responses and screen for potential surface seepages. This localized flooding trial serves as a pilot phase for the long-term closure strategy, which entails allowing the full 7-South underground footprint to naturally flood. This approach aligns directly with the site's original approved closure plan.

2.3 MAINTENANCE & RECLAMATION ACTIVITIES

To ensure proper functioning of site wide water management systems during care and maintenance, haul roads, roadside ditches, catchment ditches, ponds, culverts, pumps, and water lines are maintained on a routine basis. Regular maintenance activities include removal of debris from culverts, replacement of silt fences and straw bales, and removal of sediment build-up from catchment ditches and ponds. Pumps and water lines are inspected daily and maintained as part of this routine surface inspection.

There was no reclamation performed during the 2025/2026 reporting year. Disturbances occurred for the liner over the 2-North Pit PAG-CCR facility, River Barrier Pillar Treatment System (RBPTS), and the pipeline from RBPTS to Brinco Brooke. The site has remained in Care and Maintenance status. The approximate cumulative disturbance of 3.51 hectares.

As part of this program, two new dewatering wells were drilled and installed into the mine pool near the Quinsam River (referred to as River Barrier Pillar (RBP) wells) in December 2024.

A dewatering test and high-frequency monitoring program were completed along the Quinsam River between Middle Quinsam Lake and the Iron River confluence. Monitoring results were assessed against a Trigger-Action-Response Plan to confirm environmental protection during the January–June 2025 test. Results informed water management changes required by March 2026. Refer to Lorax Environmental Services' *2-North Mine Passive Dewatering Test Action Plan* (February 27, 2025) and *2-North Mine Dewatering Test Monitoring Results* (April 16, 2026).

The full-scale River Barrier Pillar Treatment System (RBPTS) was constructed in summer and fall 2025. The system includes three passive-flow boreholes, a splash pad, three settling ponds, and a rock-lined outlet channel.

The RBPTS provides a permanent passive discharge from the underground mine to the Quinsam River, with contingency pumps available to direct water to Brinco Brook and Settling Pond #4 if needed. This approach reduces worker exposure to underground hazards and lowers ventilation and pumping requirements. Refer to Appendix VI for the technical details.

3.0 INCIDENTS: SPILLS, PERMIT LIMIT EXCEEDANCES, & PERMIT NON-COMPLIANCES

Appendix I, Table 2 presents a summary of all non-compliances for permit limit exceedances (Ps) and permit non-compliances (PNCs).

In order to inform all Regulatory bodies, the Provincial Emergency Program (PEP), was informed of the initiation of the Pilot Scale test for the River Barrier Pillar (RBP) and dangerous goods incident reports and numbers were generated.

On February 27th, 2025, Quinsam sent a notification letter to ENV for the RBP Well Commissioning and Initiation of the 2-North Mine Dewatering Program for Permits C-172 (Mines Act) and PE:7008 (Environmental Management Act). Notification Dangerous Goods Incident Report (DGIR) **250786** was submitted to ENV.

End of Spill Update for DGIR **250786** was submitted on March 29, 2025, with an update report for the 2-North Mine Dewatering Test and included the 2-North Mine Passive Dewatering Test Action Plan" (Lorax Environmental Services, Feb 27, 2026).

On November 21st, 2025, following completion of the full-scale River Barrier Pillar Treatment System (RBPTS), Quinsam submitted a notification letter to ENV titled *Notification of Commissioning of River Barrier Pillar Treatment System (RBPTS) – Quinsam Coal Mine and Dangerous Goods Incident Report (DGIR) (254503)*. The notification was submitted in relation to Permits C-172 (Mines Act) and PE:7008 (Environmental Management Act).

On December 19th, 2025, Quinsam sent a 30-day update notification letter to ENV for DGIR **254503**.

On January 23, 2026, Quinsam sent another 30-day update notification letter to ENV for DGIR **254503**. This informed ENV that 30-day updates would not be submitted and replaced by a full commissioning report once the system was completed.

This reporting system was used to inform all government bodies about the initiation of discharge. These actions proceeded under the Chief Inspector's authority granted by Section 17 of the Mines Act.

All mine discharges from permitted locations met concentration limits this monitoring year, with the exception of the single April 1, 2025, oil and grease detection at Settling Pond #1 (see Section 5.3.2.1 for data analysis). PNCs specific to 2025/2026 included bypasses of authorized works at the seeps, and the lack of a quarterly report submission for all Quarters. Details are available in Appendix I, Table 2 and relevant monitoring results are described in Section 7 of this report. All spill and excursion reports are submitted to the Environmental Emergency Program website at: and SpillReports@gov.bc.ca.

4.0 MATERIALS AND METHODS: ENVIRONMENTAL MONITORING PROGRAM

4.1 ENVIRONMENTAL MONITORING EQUIPMENT

The following equipment is used to conduct the monitoring program at Quinsam Coal:

- A maidlabs technology, Flowmaid with an ultra-sonic depth sensor at Settling Pond #1.
- An ISCO signature flow meter with an ultrasonic sensor at Settling Pond #4.
- A Sitrans F M MAG 8000 CT electromagnetic flow meter to record discharge at 7SSD.
- ISCO 12-volt automatic samplers programmed to collect daily composite samples for analysis of total suspended solids (TSS) at all permitted discharge locations.
- A YSI Exo 1 multiparameter sonde and YSI Pro-Plus, to obtain physical water quality parameters, which is calibrated prior to each sampling event following manufacturer specifications for maintenance and handling.
- Two handheld sondes (Oakton PC Tester 35), for routine monitoring of pH and conductivity.
- Level logger pressure transducers, used to obtain continuous water level measurements at Long Lake Outlet, Middle Quinsam Lake Outlet, and the Iron River.
- A 4-litre Beta sampler to collect lake water and phytoplankton samples.
- A Campbell Scientific weather site, to record temperature, precipitation, wind, humidity, solar intensity, and snow accumulation data (installed next to the 2-South pit).
- Wisconsin plankton sampler (63 µm net) to collect zooplankton.
- An Ekman grab sampler for collection of sediment and benthic invertebrate samples.
- Hydro-lift, portable bladder pumps, and peristaltic pumps for collection of groundwater samples.
- Although this list is not exhaustive, it provides an overview of the equipment used for environmental monitoring at the site.

4.2 WATER QUALITY SAMPLING

4.2.1 FIELD METHODS

All water samples were collected in accordance with methods described in "The British Columbia Field Sampling Manual Part E1 Surface Water" (ENV 2024)¹. This includes the field protocols for use of field duplicates, split samples, and method blanks. PE:7008 outlines the frequency of sampling and parameters required to be monitored at each site.

Since the initiation of field filtering and preserving dissolved metal samples, dissolved iron displays an increase in concentrations signifying the importance of field filtering. Mine water high in iron concentrations has the highest observed effect from the transition of laboratory filtering

¹ ENV 2024. "The British Columbia Field Sampling Manual Part E1 Surface Water". Available at: <https://www2.gov.bc.ca/assets/gov/environment/research-monitoring-and-reporting/monitoring/emre/manuals/field-sampling-manual/bc-field-sampling-manual-part-e1-surface-water-2024-03-08.pdf>

compared to field filtering. This is most noticeable at the Long Lake Seeps and other mine discharge water. These areas were historically perceived to have dissolved iron concentrations that were less than detection limits in most samples. Once field filtering was introduced dissolved iron resulted in elevated concentrations.

4.2.2 LAB METHODS

Bureau Veritas Laboratories (BV Labs) located in Burnaby, BC, a Canadian Association for Laboratory Accreditation (CALA) designated laboratory, conducted the analysis of surface and groundwater samples.

BV Labs analyzed dissolved and total metals samples using the Canadian Council of Ministers of the Environment (CCME)/BC Water Quality Guidelines for Freshwater Aquatic Life (WQG) analytical package to provide suitable detection limits for comparison with guidelines and as per ENV requirements. QCC requested these ultra-low level detection limits to allow for comparison of data to the updated WQG for dissolved nickel and zinc as the detection limits provided by the CCME/BC WQG analytical package were consistently higher than these WQGs, for receiving environment sites. Water quality results for Receiving environment sites, will be compared to these updated nickel and zinc guidelines moving forward.

4.3 WATER QUALITY *Analysis*

4.3.1 DATA ANALYSIS

For data presentation, half of the analytical detection limit was substituted for parameter concentrations that were less than analytical detection. Duplicate samples were collected for the purposes of quality assurance and quality control (QA/QC), but duplicate sample results were not included in the calculation of summary statistics or presented in the figures throughout the report.

Water quality data were compared to PE:7008 discharge criteria, where applicable. Receiving environment water quality was compared to the BC Approved WQG for the Protection of Aquatic Life for most parameters. The exceptions were hypolimnetic dissolved oxygen (using the Water Quality Objectives [WQOs] for Middle Quinsam Lake Sub-Basin based on a site-specific conditions) and total phosphorus in streams (using the Vancouver Island Objective [VIO]²). Table 4-1 lists the WQG, WQO, and the VIO used to screen receiving environment water quality. Water quality at locations outside of the Middle Quinsam Lake Sub-Basin, such as the No Name Lake, Iron River, 7-South (7SQR/IRQR), and Lower Quinsam Lake were compared exclusively to the WQG.

For receiving environment sites where 5 in 30-day day sampling was conducted, data were compared to both acute (maximum) and long-term chronic WQGs; chronic WQGs were considered exceeded only if the average of 5 in 30-day sampling results was greater than the WQG. Acute

² Guidance Document for Phosphorous Management in Vancouver Island Streams. Ministry of Environment. 2012

(maximum) WQGs were screened against individual sample results. For hardness-related parameters (e.g., dissolved sulphate), a conservative approach was applied based on background hardness (~30 mg/L) at lake and river receiving environment stations. Calculated guidelines for total aluminum and dissolved copper were derived using ambient water quality data from the receiving environment sites. Although the WQG, WQO, and VIO lack legal standing, they serve as a basis for evaluating environmental health.

Seep data compared to WQGs is considered a conservative approach for information purposes and exceedances of WQGs in seeps should not be interpreted as a direct risk to aquatic life in the receiving environment.

Table 4-1: Water Quality Guidelines and Objectives Applied to Receiving Environment Stations

Parameter				
	Lakes (mg/L)		Streams (mg/L)	
	Maximum	5 in 30-day Avg	Maximum	5 in 30-day Avg
	0.007 summer avg - Long Lake		0.01	0.005**
Phosphorus - total	0.006 summer avg - Middle Quinsam Lake		(May-September)	
Non-filterable residue or TSS	25	5	n/a	n/a
Hypolimnetic DO	3 mg/L minimum during June-August		n/a	n/a
pH	6.5 – 9	n/a	6.5 – 9	n/a
Aluminum (total)***	-	variable	-	variable
Arsenic (total)	n/a	0.005	n/a	0.005
Boron (total)	n/a	1.2	n/a	1.2
Cadmium (dissolved)*	0.00017	0.000087	0.00017	0.000087
Chloride (dissolved)	600	150	600	150
Cobalt (total)	0.11	0.004	0.11	0.004
Copper (dissolved)***	variable	variable	variable	variable
Iron (total)	1.0	n/a	1.0	n/a
Iron (dissolved)	0.35	n/a	0.35	n/a
Lead (total)	0.0176	0.004	0.0176	0.004
Manganese (total)	0.8706	0.737	0.8706	0.737
Molybdenum (total)	46	7.6	46	7.6
Nickel (dissolved)***	variable	variable	variable	variable
Selenium (total)	n/a	0.002	n/a	0.002
Silver (total)	n/a	0.00012	n/a	0.00012
Zinc (dissolved)***	varies	varies	varies	varies
Sulphate dissolved*	n/a	128	n/a	128

*Hardness dependent guidelines use background hardness (30 mg/L)

** Average based on monthly samples from May to September

***Calculated using ambient water quality data

4.3.2 QUALITY ASSURANCE / QUALITY CONTROL

QA/QC practices were integrated into the environmental monitoring program to maintain data integrity, consistency, and reproducibility in accordance with BC ENV (2025) protocols. Field replicate samples accounted for approximately 10% of total laboratory analyses across weekly, monthly, quarterly, groundwater, and 5-in-30-day freshwater aquatic life monitoring programs. Precision was evaluated by calculating the Relative Percent Difference (RPD) for duplicate pairs:

$$RPD = \text{Absolute} \frac{(\text{Sample Concentration} - \text{Replicate Concentration})}{\left(\frac{\text{Sample Concentration} + \text{Replicate Concentration}}{2}\right)} \times 100\%$$

To eliminate statistical skew near instrument detection thresholds, RPD tracking was restricted to results $\geq 5 \times$ the detection limit (DL). RPD values $<20\%$ were deemed acceptable, limits between 20% and 50% indicated minor potential variance, and values $>50\%$ represented definitive precision issues.

Replicate Performance Summary

During the 2025/2026 monitoring period, 4,112 replicate parameters were evaluated. Of these, 96.50% satisfied strict precision baselines. Overall, 89 parameters (2.16%) yielded an RPD between 20% and 50% , while 55 parameters (1.34%) exceeded 50% . Dissolved and total zinc (Zn-D, Zn-T), total and dissolved aluminium (Al-T, Al-D), acidity, and turbidity were the most frequent parameters to exceed the 20% RPD limit. This pattern is technically expected due to sample matrix heterogeneity, particulate suspension variations, and the challenges of filtering sub-micron particles under changing field conditions. The remaining parameters exceeding 50% RPD lacked the absolute concentration magnitude to represent a systemic data risk. Refer to Appendix I, Table (59 and 60)

Blank Sample Analysis

In accordance with BC ENV (2024), blank results $>2 \times \text{DL}$ were flagged to isolate potential contamination pathways. The program integrated one (1) Trip Blank, one (1) Field Blank, and three (3) lake equipment rinseate blanks (EB2, EB3, and EB4):

- **Trip & Field Blanks:** Returned non-detect ($<\text{DL}$) results for all target parameters, verifying cross-contamination was successfully controlled during cooler transit and field handling.
- **Equipment Blanks:** Low-level, trace detections were identified for Ammonia as N (0.015 mg/L vs DL 0.005 mg/L in EB2), TSS (2.4 mg/L vs DL 1.0 mg/L in EB3), and Total Phosphorus (0.004 mg/L vs DL 0.002 mg/L in EB4). These negligible concentrations reflect minor, typical equipment carryover post-triple-rinse and do not compromise overall dataset usability.

Laboratory and Database Controls

Prior to database upload, a variance analysis isolates any incoming data outside a 95% confidence interval (4σ) against historical baselines to trigger immediate laboratory investigations and sample re-runs through Bureau Veritas (BV) Labs. BV Labs executed internal quality controls meeting national accreditation standards with every batch, incorporating Method Blanks to isolate laboratory backgrounds, Spiked Blanks to confirm absolute method accuracy, and Matrix Spikes to quantify sample-specific matrix interferences. The combined QA/QC review confirms full technical confidence in the accuracy and precision of the 2025/2026 dataset for regulatory reporting.

4.3.3 BIOASSAYS AND TOXICITY TESTING

Acute Rainbow trout bioassays are conducted on water from authorized discharge locations (Settling Pond #1 and Settling Pond #4) during specific events.

Acute 48-hour *Daphnia magna* and Acute 96-hour Rainbow trout bioassays were conducted on water from the River Barrier Pillar Treatment System at the discharge location (RBPO) prior to entering the receiving environment.

Acceptable criteria for a Rainbow trout bioassay include no mortalities at 100% effluent concentration after 96 hours.

7-day *Ceriodaphnia dubia* chronic toxicity testing assesses acute and chronic exposure levels, determining if the effluent causes death or affects test organism reproduction over a 7-day period.

Acute 48-hour *Daphnia magna* - the acceptable criteria for a 48-hour Acute *Daphnia magna* Single Concentration Toxicity Test on an effluent discharge in British Columbia are regulated by both provincial authorizations and federal standards.

For a new discharge, these performance baselines must be achieved to demonstrate compliance and prevent regulatory enforcement actions.

Main Compliance Endpoint (Pass/Fail)

- Acceptable Criterion: The effluent sample is considered non-acutely lethal if it results in $< \text{or} = 50\%$ mortality (or immobilization) of the test organisms exposed to 100% full-strength (undiluted) effluent over 48 hours.
- Failure Trigger: If $> 50\%$ of the *Daphnia magna* die or become completely immobilized at 100% concentration, the sample fails the acute toxicity baseline. This typically mandates immediate reporting, a re-test, and a Toxicity Identification Evaluation (TIE).

4.4 PHYTOPLANKTON

4.4.1 FIELD METHODS

Phytoplankton samples were collected from 1 m depth using a 4 L Beta sampler. Chlorophyll *a* sample were collected as 1 L raw water samples, which were shipped to BV Labs (Burnaby, BC) and laboratory filtered for analysis. A 250 mL sample was preserved with Lugol's iodine in the field and analyzed for abundance and community composition by Stantec Consulting Ltd., Burnaby, BC.

4.4.2 LAB METHODS

For analysis of phytoplankton abundance and community composition, organisms were identified to the lowest practical level (species where possible) using an inverted microscope. A 27 mL volume of lake water was settled in a chamber. Counts were made at 100X, 400X, and 1000X magnifications, to record the size range of phytoplankton.

4.4.3 QA/QC

For chlorophyll *a* and phytoplankton (abundance and community composition) analysis, field duplicates were collected for QA/QC in spring (No Name Lake), summer (Middle Quinsam Lake), and fall (Long Lake) in 2025.

4.5 ZOOPLANKTON

4.5.1 FIELD METHODS

Samples were collected using a Wisconsin Plankton Sampler (63 µm net) in a 10 m vertical tow, with one sample collected per lake. Samples were preserved with buffered formalin and, in 2025, were sent to Biologica Environmental Services (Victoria, BC) for taxonomic analyses. From 2013 to 2023, zooplankton samples had been analyzed by Fraser Environmental Services.

4.5.2 LAB METHODS

In the lab, samples were divided into coarse and fine fractions. The coarse fraction was analyzed in a Bogorov tray through a stereo microscope at 10-40x magnification. All organisms were identified using a compound microscope (100-400x magnification). The fine fraction was analyzed using a 1-m: Sedgewick-Rafter counting chamber. Organisms were counted and identified to the lowest practical level (species where possible).

4.5.3 QA/QC

In 2025, field duplicates were collected for QA/QC in spring (No Name Lake), summer (Middle Quinsam Lake), and fall (Long Lake). Ten percent of samples were also re-analyzed to assess subsampling enumeration accuracy.

4.5.4 RESULTS AND DISCUSSION

4.6 HYDROLOGY: IN-SITE MINE RELEASES & WATER MANAGEMENT SYSTEMS

4.6.1 NORTH WATER MANAGEMENT SYSTEM

4.6.1.1 Authorized Discharge Rates at Settling Pond #4 (SP4/WD) EMS #E207409

Maximum authorized rates of discharge at SP4 are 0.32 m³/s (instantaneous) and 0.08 m³/s (annual average) or 2,522,880 m³ over a period of 365 days. Maximum discharge rates were below 0.32 m³/s throughout the entire monitoring period, with the highest daily discharge recorded at 0.16 m³/s. This year the cumulative discharge was calculated as 1,545,638 m³, which is 999,187 m³ lower compared to last year (2,544,826 m³). This is equivalent to an annual average discharge rate of 0.049 m³/s; 38.7% lower than the authorized average rate of discharge (0.08 m³/s or 2,522,880 m³). Discharge occurred for 365 days with zero discharge calculated for eight days: May 16; September 19-20, 25-27; and October 20-21.

Appendix I, Table 26 displays discharge rates and Appendix II, Graph 73 displays cumulative and daily discharge rates compared to the cumulative annual authorized rate of discharge and Graph 80 displays the Annual discharge rates from the cumulative 2-North Mine areas.

4.6.2 SOUTH WATER MANAGEMENT SYSTEM

4.6.2.1 Authorized discharge Rates at Settling Pond #1 (SP1/SPD) EMS #E218582

Maximum authorized rates of discharge at SP1 are 0.46 m³/s (instantaneous) and 0.10 m³/s (annual average) or 3,153,600 m³ over a period of 365 days. Both the annual maximum flow (0.20 m³/s) and annual average flow (0.030 m³/s) were well below the permitted rates, with the cumulative flow recorded as 882,443 m³. This is 23,712 m³ lower compared to last year (906,155 m³), equivalent to a 2.6% decrease in discharge volume. The annual average discharge rate of 0.030 m³/s is 70% below the authorized average rate of 0.10 m³/s.

Discharge summary:

- Consecutive no-discharge period: June 15 - September 28, 2025 (106 days total)
- This represents a continuous dry/no-discharge period through the summer and early fall months
- Days with discharge: 259 days
- Days without discharge: 106 days

This extended no-discharge period corresponds to the dry summer season when there is minimal or no water discharge at the SP1 monitoring station. Appendix I, Table 27, display discharge rates and Appendix II, Graph 71 displays cumulative and daily discharge rates compared to the cumulative annual authorized rate of discharge.

4.6.2.2 South Water Management System Entrance into Long Lake (LLE) EMS #E292130

Flow monitoring is required weekly at LLE, which is discharged near the outlet of Long Lake. Discharge at LLE represents the combined flow from the South water management systems along with groundwater from the 4-South coal pad area and non-mine related surface water from the upstream wetland and drainage features. As such, this site provides cumulative flow data representing all discharges from the South water management system prior to entering Long Lake near the outlet.

Flow at LLE is well correlated with precipitation events and, historically, experiences a seasonal dry period during summer. Appendix I, Table 30 displays flow rates and Appendix II, Graph 66 discharge versus precipitation at LLE.

4.6.2.3 Seep Monitoring Sites, Long Lake Seep (LLS/ LLSM) EMS #E292131

Manual flow measurements are obtained weekly at the two sites LLS and LLSM. At LLS, a staff gauge is used to obtain a level at the weir. LLSM is equipped with an H-Flume, flow meter and sensor providing more accurate monitoring of seep discharge. Staff gauge measurements are obtained weekly and compared to the meter levels and are adjusted accordingly. The flow information is available in Appendix I, Table 30 and Appendix II, Graph 67. The flow recorded at Long Lake Seep's indicates a dependency on mine pool (void) water levels. As mine pool levels decrease in late spring, flow at the seep decreases substantially and temporarily ceases during summer to fall. Since November weekly staff gauge readings were recorded as the flow meter was removed

Flows started on January 6th, 2025, and ceased at the H-Flume on April 29, 2025, until November 1st, 2025. The period of no flow at the seeps was longer than previous years. Normally the LLSM starts flowing in November and stops in June or July.

4.6.3 7-SOUTH MINING OPERATION DECANT (7SSD) EMS #E292069

The maximum authorized discharge from settling pond 7SSD is $0.005\text{m}^3/\text{s}$ (5 L/s). However, discharge is dependent on assimilative capacity of Stream 1 (7S) and, therefore, dynamic in nature. To facilitate determination of the appropriate discharge level at 7SSD, a flow rating curve was developed for monitoring site 7S, (Figure 4.1), to allow instantaneous flow levels at 7S to be measured by reading the installed staff gauge.

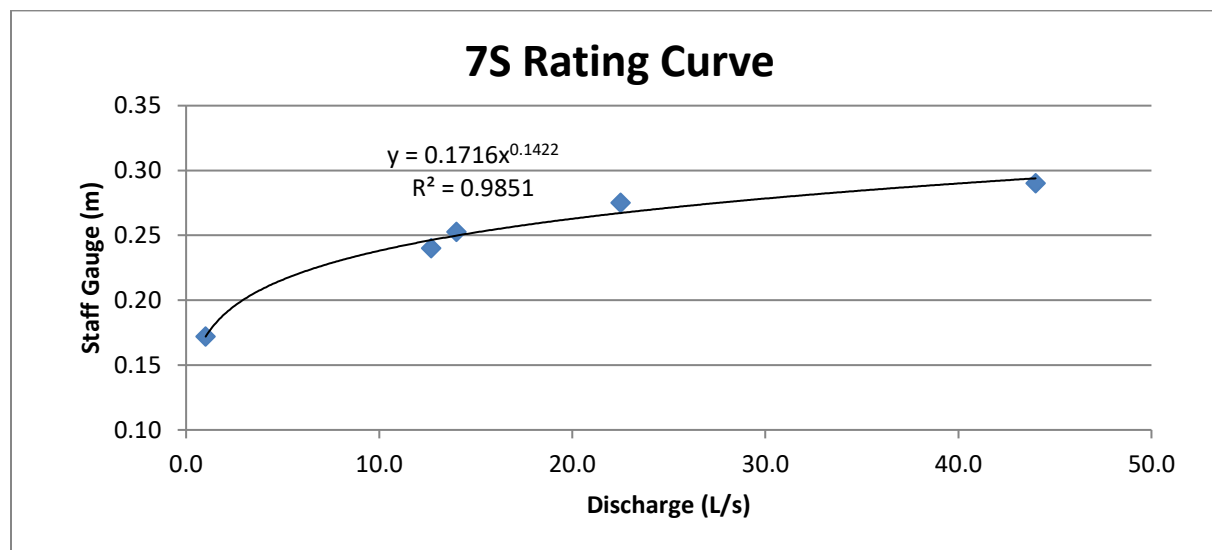


Figure 4.1: Monitoring Site 7S Stage Discharge Curve

Initially, an 8:1 dilution ratio was identified to maintain desirable water quality in the receiving environment, monitored at downstream site Stream 1 (7S). However, throughout the 7-South operational period, a lower dilution ratio has been shown to allow WQGs to be met in the receiving environment (site 7S). The dynamics of this system are still being monitored and measured; as a longer-term dataset is developed, the information will be evaluated to optimize discharge rates, while continuing to protect aquatic life.

In 2015, modifications were made to minimize discharge from 7SSD. The containment pond (7SCP) that delivers water into 7SSD was enlarged to accommodate more water. Additional pumps were placed at 7SSD and 7SCP to decrease 7SSD discharge and assist environmental personnel in water management. The revised system pumps water from 7SSD and 7SCP to 7SPS. The pump at 7SCP runs on an automated float system where water levels are kept below the overflow channel into 7SSD. During high precipitation events, a secondary pump can be activated to assist in pumping water to 7SPS. This pump can also be relocated to 7SSD, where any accumulated water can be diverted into 7SCP. This system has eliminated all discharge from 7SSD.

No discharge occurred during 2025-2026, Appendix I, Table 28.

4.7 HYDROLOGY IN THE RECEIVING ENVIRONMENT

Hydrometric stations in the receiving environment monitor hydrological conditions at key locations affected by QCC operations. Stage discharge curves for these stations have been developed using various methods (e.g., staff gauge, pressure transducer, manual measurements) and are periodically updated to capture the full range of flow. The information is used to evaluate water quality and, in turn, determine assimilative capacity of the receiving environment with respect to mine related discharge. Moreover, flow is well correlated with lake flushing and turnover events, which directly influence concentrations of certain parameters (e.g., sulphate).

Flow data for WA is obtained from the Environment and Climate Change Canada’s monitoring station “Quinsam River at the Argonaut Bridge”; the data are currently subject to revision and have not been approved. The flow for WA is controlled upstream by the BC Hydro diversion dam to Gooseneck Lake; therefore, the volume of water diverted for hydro generating purposes influences flows at WA and WB. Accordingly, water levels at these two stations are not as closely correlated with precipitation as they are for other receiving environment stations.

Flow monitoring stations on the Iron River, Stream 1, and Long Lake system(s) are directly influenced by precipitation and the hydrographs typically show a pronounced peak following a precipitation event. This increase represents additional dilution and, therefore, assimilative capacity (for most parameters) in the receiving environment.

Appendix I, Table 30 and Appendix II, Graphs (64, 65, 68 to 70 display flows compared to water level measurements and precipitation for the receiving environment hydrometric stations (WA, WB, LLO, 7S and IR8).

4.8 WATER QUALITY: IN-SITU MINE RELEASES & WATER MANAGEMENT SYSTEMS

This section presents the results of the water quality monitoring program for the North, South, and 7-South (i.e., within) mine releases and water management systems for the major monitoring locations (e.g., settling ponds, discharges) permitted parameters and parameters of interest, to provide context for evaluating receiving environment water quality. The water chemistry data for 2025/2026 monitoring stations are presented throughout Appendix I.

Appendix I, Table 49 to 53 provides a five-year statistical summary (year over year minimum, maximum, average, median, geometric mean, count, count < DL, standard deviation, first quartile, third quartile) for 23 parameters measured in the settling ponds, applicable receiving environment monitoring stations, and ex-situ groundwater wells. Monitoring years 2021 to 2026 are presented, where data is available.

For a summary of permit non-compliances please refer to Appendix I, Table 2.

4.8.1 NORTH WATER MONITORING SITES

4.8.1.1 Settling Pond #4 (WD) EMS #E207409

Results for the 2025/2026 monitoring program demonstrated that water quality for all permitted parameters was well within the permit limits listed in Table 4-2. Appendix I, Table 6 and Appendix II, Graphs 1 through 10 provide water quality results for Settling Pond #4. Results for the rainbow trout bioassays are described in Section 5.3.4.

Table 4-2: Permit Limits Applied to Settling Pond #4

Parameters	Limit	Unit
TSS (daily composite)	25	mg/L
TSS (hourly composite)	35	mg/L
pH	6.0-8.5	mg/L
Ammonia (as N)	1.0	mg/L
Phosphorus (as P)	0.03	mg/L
Oil and Grease (total)	10	mg/L
Aluminum, dissolved	0.5	mg/L
Copper, dissolved	0.02	mg/L
Iron, dissolved	0.3	mg/L
Lead, dissolved	0.05	mg/L
Zinc, dissolved	0.1	mg/L
Rainbow Trout Bioassay (<i>Oncorhynchus mykiss</i>)	No mortalities at 100% effluent concentration after 96 hours	96LC50

Since commencement of underground mining in 1992, dissolved aluminum, copper, lead, and zinc concentrations have remained below permit limits, with minor, irregular fluctuations noted. Iron is the only metal with a permit limit that displays elevated concentrations related to mine void dewatering areas.

In addition to parameters with permit limits, dissolved arsenic, organic carbon, sulphate, and hardness are some of the primary parameters of interest from mine related discharges, sulphate is a common and traceable parameter associated with coal mining. In 2025/2026 dissolved sulphate concentrations at WD ranged from 250 to 860 mg/L (average 544 mg/L), total hardness ranged from 238 to 620 mg/L (average of 459 mg/L; Table 4-3). Sulphate and hardness concentrations were variable throughout the year with peak concentrations occurring in summer associated with pumping from underground.

Table 4-3: Summary Statistics for Parameters of Interest at SP4

WD	As-D	Al-D	Cond-F	Cu-D	Fe-D	DOC	Hard-T	Pb-D	pH-F	SO4-D	TSS	Zn-D	O&G	Rainbow Trout
E207409	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	96LC50
Permit Limit		0.5		0.02	0.30			0.05	6.0-8.5		25	0.1	10%	100%
Average	0.00066	0.00889	1724.6	0.00037	0.0392	8.5	459	0.00012	7.57	544	2.93	0	0.58	
Count	21	21	57	21	21	6	16	21	56	56	56	21	6	1
Minimum	0.00016	0.00141	463	<0.00020	<0.010	1.1	238	0.000005	7.02	250	<1.0	0	<1.0	
Maximum	0.00152	0.113	3107.5	0.00078	0.253	42	620	<0.00040	8	860	16	0.01	1.0	
Geometric mean	0.00052	0.00320	1611.2	0.00033	0.0212	2.8	436	#####	7.56	516	2.04	0	0.56	
Median	0.00043	0.006	1776	0.00033	0.0174	1.9	508	0.0002	7.6	520	2.2	0.01	0.5	
First quartile	0.0003	0.003	1534	0.0004	0.011	1.2	330	0.0002	7.41	437	1.2	0.01	0.5	
Third quartile	0.00112	0.006	2060	0.00041	0.0344	2.8	577	0.0004	7.77	660	4	0.01	0.5	
90th Percentile	0.0013	0.00935	2350	0.00066	0.082	22.4	613	0.0004	7.89	805	5.4	0.01	0.75	
Count of less-than results	0	15	0	6	2	0	0	20	0	0	11	19	5	
Count of results exceeding		0		0	0			0	0		0	0	0	0

4.8.1.2 Culvert into Middle Quinsam Lake (WC) EMS #E207411

Monitoring station WC represents the cumulative surface water discharge from WD prior to entering Middle Quinsam Lake. After passing WC, the discharge water enters another large wetland before entering near the inlet of Middle Quinsam Lake approximately 350 m downstream of WC.

Concentrations for parameters of interest are typically slightly lower at WC than at WD, attributed to the attenuation that occurs along the WD-WC flow path that includes an expansive wetland. This pattern was observed in 2025/2025 apart from average pH, which was slightly higher at WC (Tables 4-3 and 4-4).

Table 4-4: Summary Statistics for Parameters of Interest at WC

WC	As-D	Al-D	Cond-F	Cu-D	Fe-D	DOC	Hard-T	Pb-D	pH-F	SO4-D	TSS	Zn-D
E207411	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L
Average	0.00043	0.00713	1604.2	0.00026	0.0227	2.2	368	0.00011	8.04	464	0.97	0.00280
Count	10	10	16	10	10	3	10	10	16	15	16	10
Minimum	0.00019	<0.0030	507	<0.00020	0.0112	1.9	126	<0.0000050	7.55	150	<1.0	0.00049
Maximum	0.00074	0.0206	2866.4	0.00048	0.0366	2.4	552	<0.00040	8.49	820	2.4	<0.010
Geometric mean	0.00041	0.00477	1413.4	0.000240	0.0207	2.2	333	0.00008	8.04	402	0.84	0.00244
Median	0.00045	0.00452	1511	0.00022	0.0207	2.2	385	0.0001	8.04	380	0.85	0.0025
First quartile	0.00038	0.00187	1149	0.0002	0.015	2	231	0.0001	7.92	295	0.5	0.0025
Third quartile	0.00048	0.01128	2054.5	0.00032	0.0327	2.3	496	0.0001	8.19	670	1.2	0.0025
90th Percentile	0.00055	0.01367	2565.9	0.00035	0.0352	2.4	543	0.0002	8.29	800	1.6	0.005
Count of less-than results	0	4	0	3	0	0	0	10	0	0	8	9

4.8.2 SOUTH WATER MONITORING SITES

4.8.2.1 Settling Pond #1 (SP1/SPD) EMS #E218582

Settling Pond #1 represents the cumulative mine related discharge from the SWMS. Besides elevated sulphate and occasionally elevated iron, the water quality at SPD has remained in good condition. Results for the 2025/2026 monitoring program demonstrated that water quality for all permitted parameters was well within permit limits listed in Table 4-5, except for oil and grease (Table 4-6). Oil and grease concentrations were greater than the detection limit in one of six samples collected in 2025/2026. The sample collected on April 1 had a concentration of 1.0 mg/L, measuring above detection limits. This measurable oil and grease may have been related to equipment used to change the pump in 3S pit.

Appendix I, Table 11 and Appendix II, Graphs 11 through 17 provide water quality results for Settling Pond #1. Results for the rainbow trout bioassays are described in Section 5.3.4.

Table 4-5: Permit Limits Applied to Settling Pond #1

Parameters	Limit	Unit
TSS (daily composite)	25	mg/L
TSS (hourly composite)	35	mg/L
pH	6.0-8.5	-
Ammonia (as N)	1.0	mg/L
Phosphorus (as P)	0.03	mg/L
Oil and Grease (total)	<DL	mg/L
Aluminum, dissolved	0.5	mg/L
Copper, dissolved	0.02	mg/L
Iron, dissolved	0.5	mg/L
Lead, dissolved	0.05	mg/L
Zinc, dissolved	0.2	mg/L
Rainbow Trout Bioassay (<i>Oncorhynchus mykiss</i>)	mortalities at 100% effluent concentration after 96 hours	-

Dissolved sulphate concentrations ranged from 97 to 340 mg/L and averaged 261 mg/L at SPD in 2025/2026; hardness ranged from 86 to 398 mg/L and averaged 262 mg/L. Concentrations of dissolved sulphate and hardness were highest from late spring through early fall (low dilution) and lowest during winter (higher flow and high dilution) as shown in Appendix II, Graph 12. Sulphate and hardness concentrations in Settling Pond #1 have varied, depending on pumping rates from 3-South Pit and historically 5-South underground during high flow. Since the 5-South Mine pool water was redirected to 2-North mine at the end of 2017, the main contributor to sulphate is water pumped from 3-South pit.

Table 4-6: Summary Statistics for Parameters of Interest at SPD

SPD	As-D	Al-D	Cond-F	Cu-D	Fe-D	DOC	Hard-T	Pb-D	pH-F	SO4-D	TSS	Zn-D	O&G	Rainbow Trout
E218582	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	mg/L	mg/L	mg/L	mg/L	96LC50
Permit Limit		0.5		0.02	0.5			0.05	6.0-8.5		25	0.2	<DL	100%
Average	0.00219	0.01619	707	0.000269	0.0762	3.0	262	8.41E-05	7.43	261	1.01	0.00317	0.62	
Count	12	12	46	12	12	2	7	12	46	44	44	12	6	1
Minimum	0.00096	<0.0030	302	<0.00020	0.0303	2.7	86	<0.0000050	6.51	97	<1.0	0.00030	<1.0	100
Maximum	0.00516	0.0591	925	0.00054	0.133	3.2	398	<0.00020	8.14	340	2.8	0.0127	1.2	100
Geometric mean	0.00191	0.00656	683	0.000235	0.0706	2.9	229	5.88E-05	7.43	249	0.82	0.00240	0.58	
Median	0.00178	0.0096	746	0.000277	0.0706	3	246	0.0001	7.48	270	0.5	0.0025	0.5	
First quartile	0.00136	0.0015	599	0.000175	0.0561	2.8	168	0.0001	7.22	210	0.5	0.0025	0.5	
Third quartile	0.00243	0.02473	845	0.000343	0.0906	3.1	386	0.0001	7.69	330	1.3	0.0025	0.5	
90th Percentile	0.00415	0.03665	872	0.000404	0.1207	3.2	394	0.0001	7.83	330	2.4	0.0025	0.85	
Count of less-than res	0	5	0	3	0	0	0	11	0	0	26	10	5	
Count of results exceeding standa		0		0	0			0	0		0	0	1	0

4.8.2.2 Long Lake Entrance (LLE) EMS #E2922130

Appendix I, Table 20 provides the full set of data collected at LLE and Appendix II, Graphs 18 through 21 display parameters of interest. LLE is the most downstream monitoring station in the SWMS and represents cumulative mine water discharge into Long Lake (excluding the seeps and groundwater inputs). This station is located at the outflow of a culvert discharging from a wetland, where discharge water flows through an approximately 50 m long channel before entering Long Lake. LLE is not defined as a receiving environment station but rather constitutes the upstream segment of a mixing zone defined as the initial dilution zone in PE:7008). For observation purposes, results for LLE are compared to WQGs to assess overall water management system performance and influence on Long Lake.

Dissolved sulphate and total and dissolved iron are main parameters of interest at LLE, as historically both have been frequently above WQGs (Appendix II, Graphs 18 to 20).

In 2025/2026 peak concentrations of sulphate and iron were observed in summer, consistent with previous years observations of peaks in summer and early fall. Dissolved sulphate concentrations ranged from 57 mg/L to 380 mg/L (average 147 mg/L) and exceeded the chronic WQG of 128 mg/L when applying a background hardness of 30 mg/L. Total iron concentrations ranged from 0.125 mg/L to 3.43 mg/L (average 0.649 mg/L); two individual samples collected from September and October exceeded the acute WQG of 1.0 mg/L. Dissolved iron concentrations ranged from 0.0993 to 1.89 mg/L (average 0.3332 mg/L); two individual samples collected from August and September exceeded the acute WQG of 0.35 mg/L.

Elevated iron is typically observed during low flow or the initiation of discharge periods when anoxic conditions occur in the wetland. The mixing of iron-rich bottom waters to be discharged at LLE once flows start to increase.

4.8.2.3 Long Lake Seeps (LLSM and LLS) EMS #E292131

Appendix I, Tables 21 and 22 provide the full set of data collected at LLSM and LLS, Table 30 provides the water level data. Appendix II, Graphs 22 through 25, display parameters of interest. The bedrock groundwater seeps into Long Lake originates from the flooded mine voids of 2 and 3 South. Discharge quantity and quality can be associated with the water quality and quantity assessment for Long Lake. Historically sampling focusses on two seep sites: LLSM (the larger seep) and LLS (the smaller seep). LLSM, due to its higher and more variable flows, is considered the primary seep. LLS flow rates have become negligible with limited to no flow reaching the lake. This site will be removed from the monitoring program in 2026-2027.

The water chemistry of LLSM is intricately linked to groundwater levels in the 2/3 South mining area. Seasonal variations, driven by local precipitation and infiltration, lead to periodic “flushing” events of the underground oxidized mine walls.

At LLSM, a hydrometric station equipped with an H-Flume, a sonic depth sensor, and a flow meter are established. This station allows precise measurements of continuous flow rates and water levels.

LLSM exhibits a consistent pattern: high flows during winter and spring, followed by reduced or no flows in summer and early fall. Flow initiation occurs when the mine pool recharges with surface water infiltration. Conversely, flow ceases when the mine water level falls below approximately 303 (m asl), as measured at groundwater well MW004.

There was negligible flow at LLS throughout the period. At LLSM flow occurred until April 28, 2025, when flow ceased, until November 1st, 2025. Flows rates were present from November 1, 2025, until March 31, 2026.

Elevated iron was not observed at LLSM and only occurred at LLS on one occasion in March for dissolved iron (0.859 mg/L).

Historically observed increases in concentrations during spring is attributed to oxidation and leaching of the mine void walls. As the mine void recharges with groundwater after summer depletion, iron-rich sediment deposits form. Iron transitions from ferrous (Fe^{2+}) to ferric (Fe^{3+}) states, influenced by oxygen. Sample collection at these locations is challenging due to the sediment, necessitating careful flow path management during routine sampling.

Iron occurs naturally in water with low dissolved oxygen, in soluble form as the ferrous iron (bivalent iron in dissolved form Fe^{2+} or $\text{Fe}(\text{OH})^+$) or complex form like the ferric iron (trivalent iron: Fe^{3+} or precipitated as $\text{Fe}(\text{OH})_3$). The iron rich sediment deposited from the water makes sample collection extremely difficult at these locations and insurances are made so the flow path is not disturbed prior to sampling (as is routine everywhere). If any of the sediments are disturbed due to higher flow conditions or extremely low flow conditions the results will display elevated levels of iron. As a result, iron has a higher percentage of exceedances occurring here due to the flow path the water is taking over the iron rich sediment, sample collection, and nature of the water.

Iron rich sediment will also draw arsenic out of water where it is adsorbed by iron. All the natural iron oxide minerals (magnetite, hematite, and goethite) as well as an iron rich lateritic soil are effective in adsorbing arsenic from solution³. Iron nanoparticles, which bind easily to arsenic and have high surface areas, have been recognized and used as an effective means to sequester, or neutralize, the contaminant⁴.

³Sonia Aredes, Bern Klein, Marek Pawlik,

The removal of arsenic from water using natural iron oxide minerals, *Journal of Cleaner Production*, Volumes 29–30, 2012, Pages 208-213, ISSN 0959-6526, <https://doi.org/10.1016/j.jclepro.2012.01.029>. (<https://www.sciencedirect.com/science/article/pii/S0959652612000492>)

⁴W. Zhang et al. Arsenic removal from contaminated water by natural iron ores *Miner. Eng.* (2004)

4.8.2.4 Passive Treatment System (PTS)

The PTS operated consistently throughout the year, with only minor power interruptions in winter due to power outages. At the mine dewatering well (known as QU11-11 or INF), pumping rates varied between 0.8 L/s and 3.9 L/s, averaging 2.79 L/s.

To maintain the mine pool below the seep elevation (303 m asl), pumping rates need to be adjusted seasonally. During wet seasons, rates can exceed 4.50 L/s, while in dry seasons, they dropped below 4.00 L/s. The water can be divided between the PTS at the BCR, the other half entering 2SI. The 2SI represents the combined discharge from both the PTS and the untreated South mine water. 2SI allows monitoring of water quality and quantity before it enters the 2-South pit.

The flooded mine void water level underwent significant changes during the year, measured at INF. In April 2025, it measured 309 m asl, decreasing to 305 m asl by October 2025. However, by December, it rose again to 309 m asl and increased to 309.5 m asl by March 2025.

Since the pumping rate increased in April 2022, seepage historically beginning in November, did not start until January for both 2023 and 2024. Increased dewatering efforts successfully lowered the mine void water elevations for an extended period. Seepage stops at a mine water elevation of around 303 m asl and resumes at around 304 m asl, as measured at groundwater well MW004. During low flow rates from the LLSM water does not reach the H-Flume, before it is absorbed into the ground. For further details, refer to Figures 4.2, 4.3 and Table 4.7, below.

Decreasing pump rates were observed in 2025-2026 due to the pump and pipeline becoming corroded within the borehole. This was discovered in May 2026. As observed from the graphs, the water elevations have increased in the mine from previous years with decreased pumping rates. However, this year the seep flow rates were coming from a higher elevation with limited water coming from the original source (LLSM). Water quality improved with no iron deposited on the “upper seep” flow path. The lower elevation seep at LLSM may be sealing off with a higher mine pool seepage and improved water quality becoming more apparent.

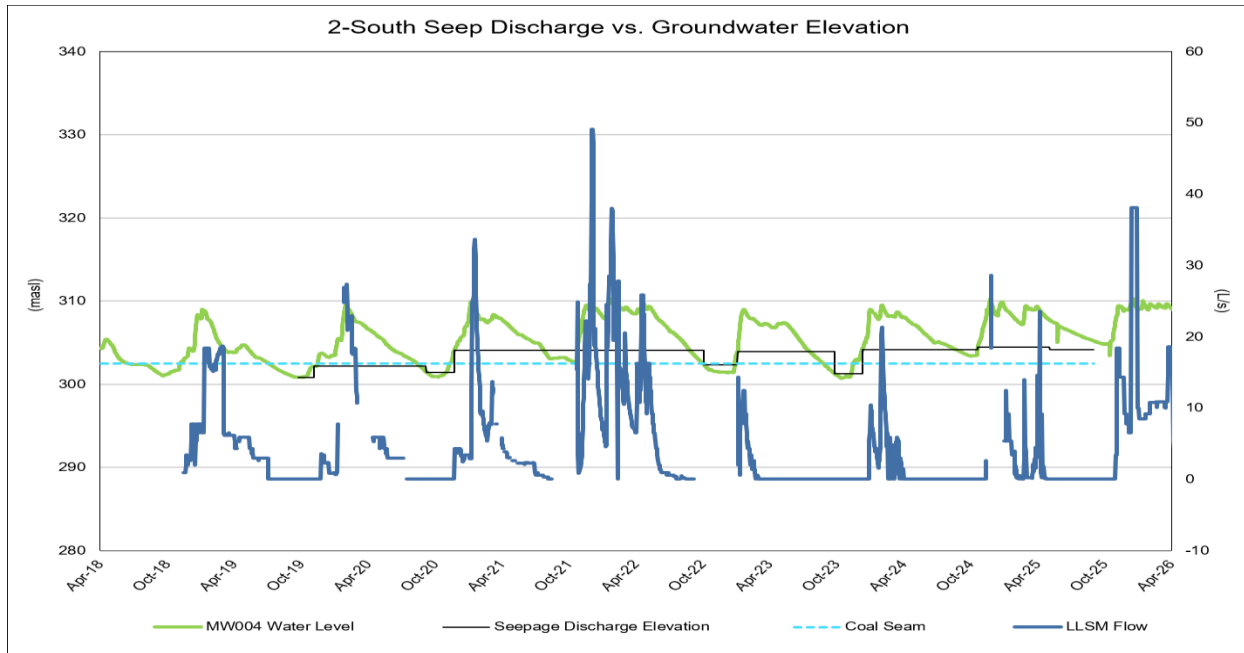


Figure 4.2: 2-South Seep Discharge versus Groundwater Elevation

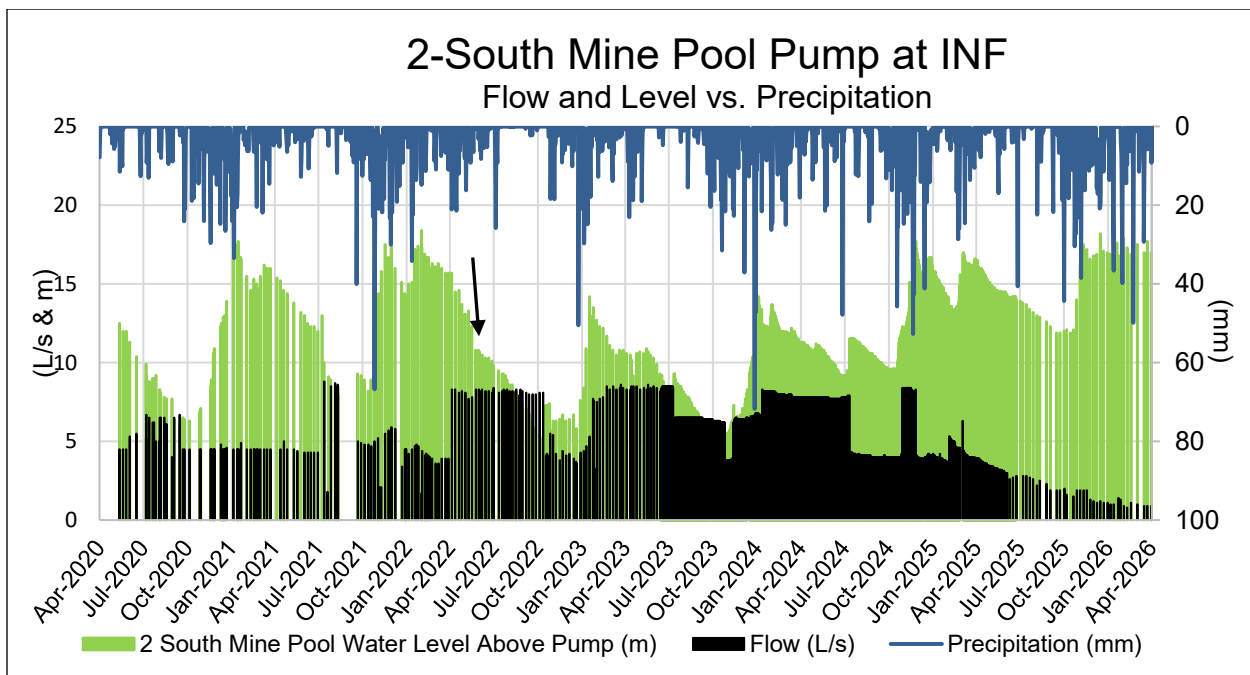


Figure 4.3: 2 / 3 South Flooded Mine Void (QU11-11 versus Level and Flow)

Table 4-7: Seep Discharge versus Mine Water Elevation

Date	MW00-4 Elevation (Masl)	H-Flume	Long Lake Seep Middle (LLSM)	Above the Coal Seam
01-Apr-26	309.1362	Flow	Flow	9.136
01-Mar-26	309.5426	Flow	Flow	9.543
01-Dec-25	308.9811	Flow	Flow	8.981
01-Nov-25	307.7226	Flow	Flow	7.723
12-Oct-25	304.8858	No Flow	Flow	4.886
12-Sep-25	305.0416	No Flow	Flow	5.042
12-Aug-25	305.5151	No Flow	Flow	5.515
12-Jul-25	306.1222	No Flow	Flow	6.122
12-Jun-25	306.7225	No Flow	Flow	6.722
12-May-25	307.5134	No Flow	Flow	7.513
31-Mar-25	309.382	Flow	Flow	9.382
12-Nov-24	307.999	Flow	Flow	7.999
21-Oct-24	304.446	No Flow	Flow	4.446
25-Jul-24	304.755	No Flow	Flow	4.755
04-Jul-24	305.079	No Flow	Flow	5.079
06-May-24	307.050	No Flow	Flow	7.050
02-Apr-24	308.061	Flow	Flow	8.061
04-Mar-24	308.180	Flow	Flow	8.180
05-Feb-24	309.183	Flow	Flow	9.183
02-Jan-2024	308.907	Flow	Flow	8.907
11-Dec-2023	304.183	No Flow	Flow	4.183
06-Sep-2023	302.033	No Flow	No Flow	2.033
09-Aug-2023	303.166	No Flow	No Flow	3.166
08-Jun-2023	306.206	No Flow	Flow	6.206
05-Jan-2023	304.080	Flow	Flow	4.080
04-Jan-2023	303.938	No Flow	Flow	3.938
04-Oct-2022	302.358	No Flow	No Flow	2.358
06-Sep-2022	303.596	No Flow	Flow	3.596
24-Oct-2021	303.124	Flow	Flow	3.124
18-Oct-2021	302.753	No Flow	No Flow	2.753
29-Sep-2021	302.950	No Flow	No Flow	2.950
16-Aug-2021	303.080	No Flow	Flow	3.080
23-Nov-2020	304.115	Flow	Flow	4.115
09-Nov-2020	302.385	No Flow	No Flow	2.385
08-Sep-2020	301.455	No Flow	No Flow	1.455
08-Jul-2020	303.458	Flow	Flow	3.458
25-Nov-2019	303.719	Flow	Flow	3.719
06-Nov-2019	302.176	No Flow	Flow	2.176
21-Oct-2019	301.213	No Flow	No Flow	1.213
01-Oct-2019	300.861	No Flow	No Flow	0.861
24-Sep-2019	300.825	No Flow	No Flow	0.825
12-Aug-2019	301.478	No Flow	No Flow	1.478
16-Jul-2019	302.183	No Flow	Flow	2.183
11-Jun-2019	303.158	Flow	Flow	3.158
06-Nov-2018	302.536	No Flow	Flow	2.536
**Coal seam at 300 MASL				4.01
Partially based on H-flume data				1.90

Annual average concentrations of dissolved sulphate have been entering the system from the flooded mine void, measured at the influent (INF), and leaving the system at SPCEFF, with final discharge measured at SPD. In 2025/2026, annual average dissolved sulphate concentrations at

INF, BCREFF, SPCEFF, and SPD were 511 mg/L, 407 mg/L, 304 mg/L, and 270 mg/L, respectively (Figure 4.4).

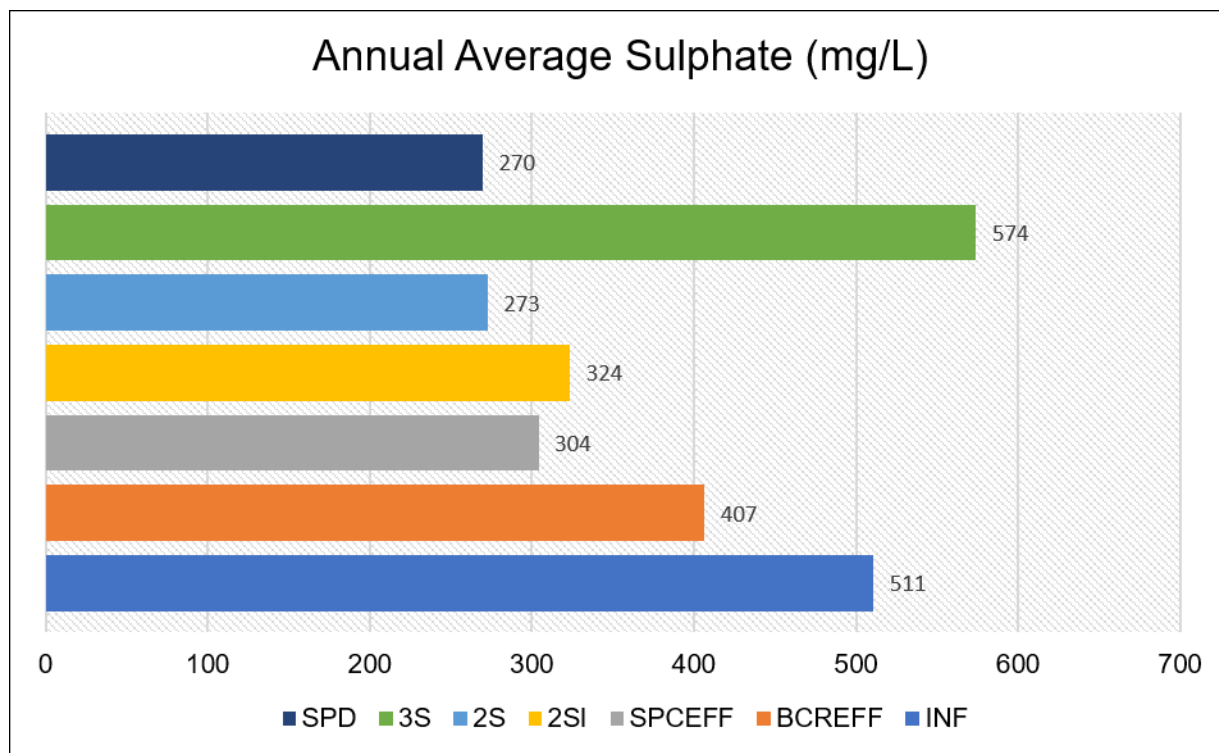


Figure 4.4: Annual Average Sulphate in the South Mine Area (mg/L)

Figure 4.5 below, and Table 4-8, displays annual average sulphate reductions through the PTS in 2025. The greatest reduction (241 mg/L) was observed from the influent (INF) to SPD. This indicates that the water management system is functioning, and reducing the concentrations of sulphate pumped from the mine pool into the treatment system and discharged at SPD.

Between INF and the BCR sulphate reduction was low in 2025 (104 mg/L). Warmer ambient temperatures normally increase microbial metabolic activity within the BCR and SPC during summer and early fall. Lower average reduction rates between INF and BCR in summer could indicate that the substrate requires replacement, or the retention time is not long enough in the BCR due to increased flow rates. In winter, cooler ambient temperatures decrease microbial activities and as a results sulphate reduction rates are lower. This year, with lower pumping rates, reduction rates should have been high.

Overall, an annual average sulphate reduction of 241 mg/L was attained between INF and SPD. The original reduction goal for the PTS was to reduce sulphate concentrations to 300 mg/L. This was achieved between INF and SPD (annual average of 270 mg/L and reduction of 241 mg/L).

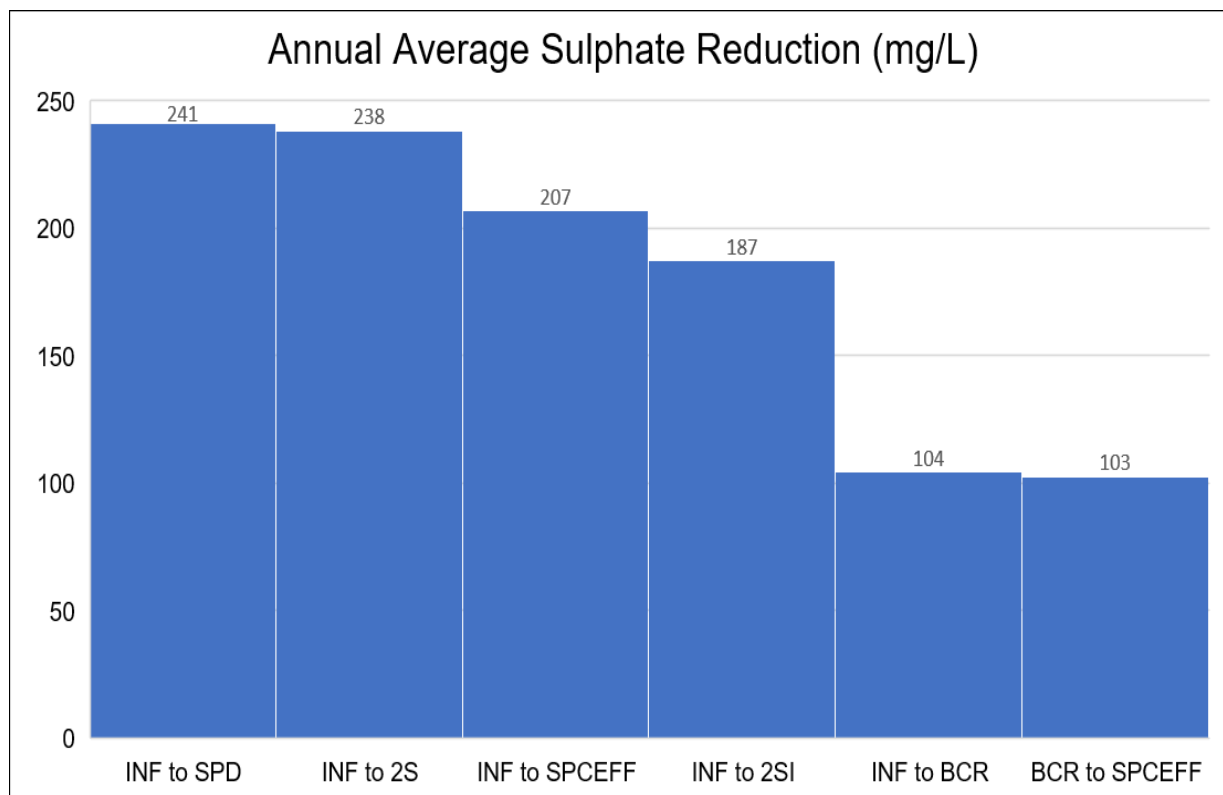


Figure 4.5: Annual Sulphate Reduction through the Water Management System

Table 4-8: Summary of Sulphate Concentrations and Reduction Rates

2025-2026	INF	BCREFF	SPCEFF	2SI	2S	3S	SPD
Average	511	407	304	324	273	574	270
Count	45	45	45	45	12	12	37
Minimum	390	200	76	130	71	460	97
Maximum	610	490	420	470	420	640	340
	INF to BCR	BCR to SPCEFF	INF to SPCEFF	INF to 2SI	INF to 2S	INF to 3S	INF to SPD
Sulphate reduction	104	103	207	187	238	-63	241

The PTS is effective at maintaining water cover over the PAG-CCR in the 2-South pit and reducing discharge at the seep into Long Lake during low flow periods. This is accomplished by decreasing the elevation of the mine pool below the elevation of the seep (303 m asl). The period of “no flow” at the Middle Seep into Long Lake (LLSM) has been observed to be extended by dewatering the flooded mine void.

Further monitoring of the PTS continues and includes the 2-3 South systems and groundwater well MW004 and INF. The relationship between MW004, seep flow and the elevation of the mine pool at the INF location continues to be developed with observations noted every quarter.

4.8.3 7-SOUTH WATER MONITORING SITES

The 7-South water management system is comprised of several structures (see Section 2.1.3) to manage local water in and around the disturbed area, with the most substantial structure being the 7-South settling pond (7SSD). This structure represents the authorized discharge location for 7-South operations regulated under PE:7008. Table 4-9 outlines the permit limits for 7SSD.

Table 4-9: Permit Limits Applied to 7SSD EMS #E292069

Parameters	Limit	Unit
TSS (daily composite)	25	mg/L
TSS (hourly composite)	35	mg/L
pH	6.0-8.0	-
Sulphate	500	mg/L
Aluminum dissolved	0.1	mg/L
Cadmium dissolved	0.000045	mg/L
Copper dissolved	0.014	mg/L
Iron dissolved	0.35	mg/L
Selenium dissolved	0.016	mg/L
Rainbow Trout Bioassay (<i>Oncorhynchus mykiss</i>)	No mortalities at 100% effluent concentration after 96 hours	-

4.8.3.1 7-South Settling Pond (7SSD) EMS #E292069 and Stream 1, (7S) EMS #E292109

There was no discharge from 7-South Settling Pond in 2025-2026. Complete water chemistry of the supernatant can be found in Appendix I, Table 23.

Appendix I, Table 25 provides water quality at 7S and Appendix II, Graph 69 provides flow versus staff gauge measurements at 7S.

4.8.4 BIOASSAYS

PE:7008 indicates that rainbow trout (*Oncorhynchus mykiss*) LC₅₀ bioassays are required once per year (fall flush) at Settling Pond #1 (EMS# E218582) and at Settling Pond #4 (EMS# E207409). The bioassays are performed using 100% (non-diluted) discharge of water to assess the potential survival of rainbow trout over a period of 96-hours. A successful test sees no mortalities throughout the 96-hour period. Discharge was collected from Settling Pond #1 and Settling Pond #4 on October 6, 2025.

If discharged, PE:7008 also requires a 96-hour LC₅₀ test on rainbow trout to be completed on 7SSD effluent (EMS# E292069) and, concurrently, a 7-day *Ceriodaphnia dubia* test from water obtained from 7S (EMS# E292109). This is required twice per year; once during the spring freshet and once during the fall flush, when discharging is occurring from 7SSD. There was no discharge from 7SSD in 2025, and no bioassays were performed for this station.

All rainbow trout bioassays performed on water collected from Settling Ponds #1 and #4 had 100% survival (Appendix III). This indicated that mine related discharges at Settling Pond #1 and Settling Pond #4, are compliant, and not acutely toxic.

For toxicity tests related to the River Barrier Pillar Treatment System discharge collected from November 2025 to March/April 2026. Most tests were single concentration (100% v/v) acute assays with *Daphnia magna* (48 h) and Rainbow trout (96 h), with 0% mortality.

Two *Daphnia* tests at RBPO showed low, non-zero mortality.

Overall, single-concentration acute toxicity tests across Settling Ponds #1 and #4, BH2402 (RBP 1), and RBPO showed consistent 0% mortality for Rainbow trout at 96 h and mostly 0% mortality for *Daphnia* at 48 h. Two RBPO *Daphnia* events exhibited low mortality: 10% on 2026-02-02, (EAE878-01), and 6.67% on 2026-03-30 (ECX268-01). Multiple trout tests at RBPO noted orange/granular precipitate in 100% tanks, but with normal fish behavior and 0% mortality.

4.9 WATER QUALITY IN THE RECEIVING ENVIRONMENT

4.10 LAKES

The monitoring program for the Middle Quinsam Lake Sub-Basin employed a 5-in-30-day sampling approach at No Name Lake, Long Lake, Middle Quinsam Lake, and Lower Quinsam Lake. There are four depths monitored at each lake:

- 1 meter below surface (1m).
- 4 meters below surface (4m).
- 9 meters below surface (9m); and
- 1 meter above bottom (1mb).

Monitoring occurred during three separate periods:

- Spring – April/May 2025 at No Name, Long, Middle Quinsam, and Lower Quinsam lakes.
- Summer – July/August 2025 at Lower and Middle Quinsam lakes; and
- Fall – October / November 2025 at Lower and Middle Quinsam lakes.

A summary of WQG exceedances is provided in Appendix I, Tables 3 and 4 and Tables 39 to 45 display the depth profiles and water chemistry results compared to guidelines with Table 53 providing a statistical summary for select parameters. Appendix II, Graphs (26 through 51) illustrate parameter trends at each lake.

Spring and fall sampling events are timed to occur during lake turnover when water circulates freely in the water column and nutrients become more available for phytoplankton growth (Wetzel 2001)⁵. Water is most dense at 4°C, and during winter, the surface water (epilimnion) is typically colder than 4°C and the deeper water (hypolimnion) is at about 4°C (displaying inverse stratification). Spring turnover occurs when the surface water warms to 4°C and begins to mix with deeper water. The lake circulates freely throughout the water column for several days (Wetzel 2001). Through the spring and summer, surface temperatures increase, establishing a thermocline (region of rapid temperature change), with warmer water above and cooler water below. Temperatures cool in late summer, and eventually the thermal stratification breaks down, leading to fall overturn and to mixing of the water column. As surface waters continue to cool, a colder layer overlies the dense bottom water (4°C), and inverse stratification persists from late fall to spring. During periods with distinct stratification, it has been observed that water chemistry often displays variable concentrations throughout the water column. During overturn, nutrients associated with decomposition of organic matter that has sunk to the bottom, are brought into surface waters, where they are available for phytoplankton growth. The timing and duration of spring and fall turnover depend on the size and depth of the lake.

⁵Wetzel, R.G. 2001. Limnology, Third Edition. Academic Press, San Diego CA.

4.10.1.1 Spring

Spring sampling occurred from April 9 to May 6, 2025, with 28.4 mm of accumulated precipitation. Long Lake, the deepest lake, showed vertical gradients, with warmer, more oxygenated, lower-conductivity water near the surface and cooler, lower-oxygen, higher-conductivity water at depth. The other three lakes showed smaller dissolved oxygen differences and little conductivity variation with depth.

Dissolved copper exceeded chronic WQGs throughout the water column in all four lakes. No Name Lake, considered unaffected by mining, had the most WQG exceedances, including total aluminum elevated above the chronic WQG all depths, and dissolved copper above the acute WQG at 9 m and 1 m above bottom.

Dissolved sulphate was well below the chronic WQG of 128 mg/L in all lakes. Average concentrations were lowest in No Name Lake (0.66 mg/L at 1 m to 1.46 mg/L at 1 m above bottom) and highest in Long Lake (31.46 mg/L at 1 m to 81.6 mg/L at 1 m above bottom).

4.10.1.2 Summer

Summer sampling was conducted from July 9 to August 6, 2025, to capture low-flow conditions and lake stratification, when dilution and assimilative capacity are lowest and mine-related surface discharge and groundwater inputs may have the greatest influence.

From June 1 to August 6, conditions were warm, with 87.30 mm of accumulated precipitation. WD flowed continuously through summer, while SPD had no flow from June 16 to September 30, 2025. Long Lake Seeps (LLS and LLSM) were also dry, and inflows to Long and Middle Quinsam lakes remained low from July through September.

Quinsam River flows at WA, which discharge to Middle Quinsam Lake, have been regulated since 1957, when an upstream diversion dam redirected approximately 72% of Quinsam River flow to the Campbell River system via Gooseneck Lake. Middle Quinsam and Long Lake have relatively rapid flushing rates during high flow, with estimated mean residence times of approximately 17 and 34 days, respectively.

The 2025 summer lake monitoring program included Long, Middle, and Lower Quinsam lakes. All three lakes were stratified, with temperature and dissolved oxygen decreasing and conductivity increasing with depth. Dissolved oxygen remained above the hypolimnetic WQO of 3 mg/L during all five summer sampling weeks in Long and Middle Quinsam lakes but fell below 3 mg/L at depth in Lower Quinsam Lake during the final two weeks.

At depth in Lower Quinsam Lake, summer averages for dissolved copper and total iron exceeded chronic WQGs. Total zinc exceeded the chronic WQG and one results was above the acute WQG at 1 m below surface in Long Lake.

Average dissolved sulphate concentrations remained below the chronic WQG of 128 mg/L in all lakes. Concentrations ranged from 48 to 81 mg/L in Long Lake, 22 to 50 mg/L in Middle Quinsam Lake, and 13.4 to 32 mg/L in Lower Quinsam Lake.

4.10.1.3 Fall

Fall sampling captured elevated precipitation, fall turnover, and flushing conditions following the summer dry period. Sampling occurred from October 7 to November 6, 2025, during which 288.20 mm of precipitation was recorded.

During turnover, deeper lake waters are typically re-oxygenated as temperatures decline and inflows increase. Middle Quinsam Lake, a long, shallow lake with upstream dam-controlled inputs, showed turnover by the second sampling week. Low dissolved oxygen at depth during week two coincided with an acute WQO exceedance for total manganese at 1 m above bottom. Long Lake, which is deeper and receives inputs from No Name Lake, groundwater, Long Lake Seeps, and mine-related discharge near the outlet, remained stratified longer. In 2025, stratification persisted throughout the five-week fall program, with dissolved oxygen below 3 mg/L at 16–20 m depth. As a result, total manganese exceeded the acute WQO at 1 m above bottom in four of five weeks, and the fall average exceeded the chronic WQO.

Lower Quinsam Lake remained stratified into week three, with dissolved oxygen below 3 mg/L at 14–17 m depth. At 1 m above bottom, total manganese exceeded the acute WQO in week three, and total iron exceeded the WQG in three of five weeks; the fall average for total iron exceeded the chronic WQG.

As in summer, dissolved copper exceeded the chronic WQG at depth in Long Lake and at all depths in Middle and Lower Quinsam lakes.

Dissolved sulphate remained below the chronic WQG of 128 mg/L in all lakes. Concentrations were highest in Long Lake, consistent with mine-contact groundwater influence from Long Lake Seeps, though long-term concentrations have generally declined with dewatering and reclamation. Fall averages ranged from 41.6 to 73.6 mg/L in Long Lake, 15.1 to 16.8 mg/L in Middle Quinsam Lake, and 18.6 to 20.1 mg/L in Lower Quinsam Lake.

4.10.2 *RIVER AND STREAM SITES*

A summary of WQG exceedances is provided in Appendix I, Tables 3 and 4 and Tables 25, 46 through 48 displaying water chemistry results compared to guidelines. Appendix I, Table 53 provides statistical summaries for parameters of interest. Appendix II, Graphs (51 and through 63) illustrate parameter trends for the rivers in the Middle Quinsam Lake and Iron River Sub-basins.

4.10.2.1 Middle Quinsam Lake Inflow (WA) EMS #0126402 and Outflow (WB) EMS #0900504

Comparing Middle Quinsam Lake's upstream river site (WA) as the “inlet” and “outlet” (WB) offers an opportunity to assess potential mine-related effects on Middle Quinsam Lake water quality. Additionally, water quality results from WA are considered “reference” for the Middle Quinsam Lake Sub-Basin receiving environment stations as the site is situated upstream of any mine related discharge. Data obtained from WB (outlet of Middle Quinsam Lake) provides information on lake

water quality after the addition of discharges from the SWMS, shallow and deep groundwater, Long Lake Outlet (LLO), mine related discharge from Settling Pond #4, and other anthropogenic sources (e.g., logging, and historical Argonaut mine). Appendix II, Graph 64 displays Middle Quinsam Lake daily inflow obtained upstream on the Quinsam River at the Argonaut bridge hydrometric station. Appendix II, Graph 65 compares water levels for discharge at Middle Quinsam Lake Outlet, WB.

TSS results at WA and WB remained at or just above detection limits (<1.0 to 5.2 mg/L; averages of 1.31 and 0.70 mg/L, respectively) throughout all sampling events, as reported in previous years, these results are expected to continue at low concentrations. Samples for WB are collected below the Coal Main Road crossing on the Quinsam River and the low TSS results reflect the efforts made in reducing sediment and erosion at this location.

pH was similar at WA and WB (range: 5.95 to 6.55) and weakly alkaline; pH values averaged 7.46 at WA and 7.37 at WB. Elevated conductivity is considered a signature of mine influence, which was reflected at WB. Average conductivity was 53 microsiemens per centimeter (µs/cm) at WA and 95.2 µs/cm at WB.

Increases of average sulphate and hardness concentrations are also observed between WA and WB because of mine influence. Average dissolved sulphate concentrations at WA (0.86 mg/L) and WB (15 mg/L) remained below the chronic WQG of 128 mg/L. Like sulphate, annual average hardness displayed an increase from WA to WB with average concentrations of 20.5 mg/L and 29.4 mg/L, respectively. Concentrations of sulfur also increased between the two stations with WA averaging 1.50 mg/L and WB averaging 4.60 mg/L.

Dissolved copper concentrations were higher at WA than WB, with average concentrations of 0.000629 mg/L and 0.000570 mg/L, respectively. The average dissolved copper concentration at WA was above the chronic WQG during spring and summer 5 in 30-day sampling with one results in spring above the acute WQG. Total zinc was also higher at WA compared to WB with average concentration of 0.001739 mg/L and 0.000737 mg/L, respectively. Total aluminum was above the chronic WQG for one result in spring at WA.

At both WA and WB all total and dissolved metals (except for dissolved copper at WA) remained below WQGs in 2025/2026. Increases in annual average aluminum, arsenic, iron, and manganese concentrations were observed between WA and WB, while decreases were observed for dissolved copper and zinc (Table 4-10).

Table 4-10: Comparison of Parameter of Interest Concentrations at WA and WB

	pH Units	µs/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	pH-F	Cond-F	SO4-D	TSS	Al-T	As-T	B-T	Cu-D	Hard-T	DOC	Fe-T	Fe-D	Mn-D	S-D	Zn-T
WA Average	7.46	53.0	0.86	1.31	0.027	0.000108	0.013	0.000629	20.5	2.1	0.022	0.012	9E-04	1.50	0.001739
WB Average	7.37	95.2	15.0	0.70	0.03	0.000150	0.022	0.000570	29.4	2.6	0.041	0.026	0.004	4.60	0.000737
Increase / Decrease	-0.09	42.2	14.14	-0.61	0.002	0.000042	0.01	-0.000059	8.9	0.5	0.019	0.014	0.003	3.1	-0.001002

4.10.2.2 *No Name Outlet (NNO) EMS #E217017 and Long Lake Outlet (LLO) EMS #E219412*

Flow from No Name Lake (NNO) enters the west end of Long Lake and exits Long Lake at the site known as LLO. LLO discharges to Middle Quinsam Lake upstream of Middle Quinsam Lake outlet (WB). Water quality monitoring at NNO and LLO provides information on changes in water chemistry in both Long Lake and the channel connecting the two lakes. The sampling location on No Name Lake is outside of direct mine discharge but could be influenced by groundwater. Therefore, changes in water chemistry between NNO and LLO represent the incremental mine loading into Long Lake from various inputs, including shallow and deep groundwater (e.g., emanating from 2S and 3S mine areas), Long Lake Seep discharge, mine related discharge from the SWMS, and other anthropogenic sources (e.g., logging). Appendix II, Graph 68 compares discharge with precipitation at LLO and Graph 76 compares level with staff gauge readings at NNO.

Concentrations of TSS for LLO and NNO remained below 2.5 mg/L during the three monitoring periods (spring, summer, and fall) in, averaging 0.84 and 0.97 mg/L.

pH was also similar at NNO and LLO, averaging 7.42 at NNO and 7.45 at LLO.

Conductivity, sulphate, and hardness increased between NNO and LLO, reflecting mine-related influences on Long Lake. Annual average conductivity was 47.4 µs/cm at NNO and 159 µs/cm at LLO. Annual average sulphate was 0.74 mg/L at NNO and 40.2 mg/L at LLO, and annual average water hardness was 13.9 mg/L at NNO and 52.8 mg/L at LLO. Concentrations of sulfur also increased between the two sites with averages of 1.50 mg/L at NNO and 13.1 mg/L at LLO.

Average concentrations of metals observed at NNO and LLO remained low, with many below laboratory DLs. At both sites concentrations of most total and dissolved metals remained below WQGs. Increases in annual average concentrations were observed between NNO and LLO for total arsenic, boron, and total zinc, while decreases were observed for total aluminum, dissolved copper, and dissolved organic carbon, total and dissolved iron, and dissolved manganese (Table 4-11).

Table 4-11: Comparison of Parameter of Interest Concentrations at NNO and LLO

	pH Units	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	pH-F	Cond-F	SO ₄ -D	TSS	Al-T	As-T	B-T	Cu-D	Hard-T	DOC	Fe-T	Fe-D	Mn-D	S-D	Zn-T
NNO Average	7.42	47.4	0.74	0.84	0.033	0.000295	0.016	0.000463	13.9	3.5	0.066	0.046	0.0031	1.50	0.001087
LLO Average	7.45	158.9	40.2	0.97	0.026	0.000422	0.041	0.000376	52.8	3.2	0.057	0.029	0.00289	13.10	0.00127
Increase / Decrease	0.03	111.5	39.46	0.13	-0.007	0.000127	0.025	-0.000087	38.9	-0.3	-0.009	-0.017	-0.00021	11.6	0.000183

4.10.2.3 *Stream 1 – (7S) EMS #E292109*

The headwaters of Stream 1 are formed by the discharge of 7SSD, which combines with Stream 2 above sampling location 7S. Downstream of site 7S, Stream 1 enters the Lower Wetland then flows into the Quinsam River. Given the aquatic values (fish habitat) in the Quinsam River, the 7S station has been defined as the IDZ for 7-South discharge water. This receiving environment site is used to

evaluate the influence of 7-South operations on aquatic receptors. Graph 69 displays discharge and level at 7S.

There has been zero discharge from 7SSD since 2017, with only 24 hours and 12 days in 2016/2017; representing the limited amount of surface loading from 7SSD discharge to the Lower Wetland.

Annual average dissolved sulphate was 0.83 mg/L and TSS was <1.0 mg/L at 7S; this was well below the chronic sulphate WQG of 128 mg/L, reflecting the water management measures employed at 7SSD sedimentation pond and surrounding 7-South operations are working.

Most metals are mostly found in low concentrations with some metals that naturally exceed WQG's such as total aluminum, above the chronic WQG in February and May monthly samples.

4.10.2.4 Quinsam River Downstream Sites

Quinsam River Downstream Site 1 (QRDS1) is located approximately 2 kilometers (km) downstream from the Middle Quinsam Lake outlet (sampling site WB) and upstream of surface inputs associated with 7-South operations. QRDS1 was established to monitor groundwater inputs from the underground disposal of 7-South tailings into the 2-North mine, underground sub-aqueously stored PAG-CCR material from processing of 5-South coal stored in the river barrier pillar, new discharges from the RBP and underground sub-aqueously stored PAG-CCR material from processing of 7-South coal stored in the 2-Mains 7-South Mine. Any incremental loadings associated with stored material and groundwater inputs and the RBP is observed between WB and QRDS1.

The 7-South Quinsam River monitoring station (7SQR) is located approximately 4 km downstream of QRDS1. 7SQR water quality is used to evaluate the influence of 7-South mine related discharge to the Quinsam River and groundwater inputs to the Quinsam River from sub-aqueously stored PAG-CCR in 2-Mains, 7-South mine. This site captures cumulative mine related discharge from all mine areas.

Average sulphate concentrations have declined since 2021 during spring, summer and fall, until 2025 summer averages, which were nearing summer 2021 averages. Spring and fall averages were below 30 mg/L at both sites, with summer averages peaking at 54.4 mg/L and 53 mg/L, respectively. This was related to the new discharge from the RBP pilot scale system and increased mine water elevations.

An increase in total arsenic concentrations has been observed on the Quinsam River between upstream (WB) and downstream (7SQR). Incremental contributions from both mine, groundwater, and/or changes in geology on the river are observed. In 2025, a slight increase in average concentrations was observed compared to previous years. All results remained below the chronic WQG.

In 2025/2026 average total boron, total and dissolved iron, manganese and total zinc were also higher at 7SQR compared to WB. Other parameters had similar concentrations between the two sites or lower concentrations at 7SQR, reflecting dilution within the watershed. Total aluminum and dissolved copper exceeded the chronic WQG at QRDS1. There were no exceedances of acute or chronic WQG at 7SQR on the Quinsam River.

Quinsam River Downstream of the confluence with Iron River (IRQR) is located about 5 km downstream of 7SQR and captures the full mixing of the Iron and Quinsam rivers. At IRQR parameter concentrations remained below acute and chronic WQGs.

4.10.2.5 Iron River

Two stations are currently monitored on the Iron River, IR6 and IR8; IR8 is located downstream of IR6. IRQR monitors the Quinsam River downstream of its confluence with the Iron River and is discussed in Section 5.4.2.5. Appendix II, Graph 70 displays the flow on the Iron River measured at IR8.

In 2025/2026 average concentrations of most water quality parameters were low and similar between sites IR6 and IR8. TSS concentrations were <1.5 mg/L at both IR6 and IR8. Average pH (7.8), conductivity (98 µs/cm), and hardness (42 mg/L) were the same at both sites. Average dissolved sulphate concentrations measured 4.36 mg/L at IR6 and 4.38 mg/L at IR8.

The average total arsenic concentration was elevated above the chronic WQG (0.005 mg/L) in summer at IR8, with an average concentration of 0.00875 mg/L. Concentrations increased from IR6 to IR8 (downstream) as shown in Appendix II, Graph 63. The Iron River system experiences naturally elevated arsenic concentrations (above WQG) during low flows. Besides arsenic, average concentrations at both sites remained similar.

All other parameters were below both acute and chronic WQGs at IR6 and IR8 and there were no parameters above WQGs observed in the Quinsam River downstream of the confluence with the Iron River (IRQR). Therefore, mixing of the Quinsam and Iron Rivers continues to provide sufficient dilution to maintain water quality in the watershed below WQGs protective of aquatic life.

4.10.3 CONCLUSION

Water quality within the Middle Quinsam Lake Sub-Basin remained good in 2025/2026, with most parameters meeting applicable WQGs and WQOs on most sampling dates in the Quinsam and Iron rivers and in No Name, Long, Middle Quinsam, and Lower Quinsam lakes.

Dissolved copper concentrations exceeded acute and/or chronic WQGs at several locations, including WA and No Name Lake, which are upstream of mine influence, as well as Long, Middle Quinsam, and Lower Quinsam lakes. In spring, dissolved copper exceeded chronic WQGs throughout the water column in all four lakes, with acute WQG exceedances in No Name Lake at 9 m and 1 m above bottom. During summer and fall, dissolved copper continued to exceed chronic

WQGs at depth in Long Lake and at all depths in Middle and Lower Quinsam lakes. Dissolved copper was higher at WA than WB, and historical and recent 2025 sediment results showing elevated copper at WA support the interpretation that naturally elevated copper or an upstream source, such as the historical Argonaut mine area, contributes to copper concentrations upstream of mine influence.

Seasonal stratification influenced lake water quality in 2025. During summer, Long, Middle, and Lower Quinsam lakes were stratified, with temperature and dissolved oxygen decreasing and conductivity increasing with depth. Dissolved oxygen remained above the hypolimnetic WQO of 3 mg/L in Long and Middle Quinsam lakes during summer but fell below 3 mg/L at depth in Lower Quinsam Lake during the final two weeks. During fall, low dissolved oxygen persisted at depth in Long Lake and Lower Quinsam Lake and occurred at depth in Middle Quinsam Lake during turnover. Under these low-oxygen conditions, total manganese exceeded the acute WQO at 1 m above bottom in Middle Quinsam Lake during week two, in Long Lake during four of five fall weeks, and in Lower Quinsam Lake during week three. Total iron also exceeded the WQG at depth in Lower Quinsam Lake during fall. These results are consistent with seasonal stratification and turnover, when low dissolved oxygen at depth can mobilize manganese and iron from lake sediments into the water column.

Average dissolved sulphate concentrations remained below the chronic WQG of 128 mg/L, applying a conservative background hardness of 30 mg/L, at all lake, river, and stream receiving environment sites during spring, summer, and fall. Sulphate concentrations were lowest upstream of mine influence, generally less than 1 mg/L at WA, NNO, and 7S, and increased downstream of mine-related inputs, including annual averages of 15 mg/L at WB and 40.2 mg/L at LLO. In the Quinsam River downstream sites, spring and fall sulphate averages were below 30 mg/L at both QRDS1 and 7SQR, while summer averages increased to 54.4 mg/L and 53 mg/L, respectively. This summer increase was directly related to the new RBP pilot-scale discharge and increased mine-water elevations. Although sulphate increased in mine-influenced areas, concentrations remained below WQGs.

Comparisons between upstream and downstream receiving environment stations indicate mine-related influences on conductivity, sulphate, hardness, and some metals, but concentrations remained below applicable guidelines. Between WA and WB, conductivity, sulphate, hardness, sulphur, aluminum, arsenic, iron, and manganese increased, while dissolved copper and total zinc decreased. Between NNO and LLO, conductivity, sulphate, hardness, and sulphur increased, reflecting mine-related influences on Long Lake, while most metals remained low and below WQGs.

In the Quinsam River downstream sites, total arsenic continued to increase between WB and 7SQR, and 2025 average concentrations were slightly higher than in previous years; however, all total arsenic results remained below the chronic WQG. In 2025/2026, average total boron, total and dissolved iron, manganese, and total zinc were also higher at 7SQR compared to WB. Total aluminum and dissolved copper exceeded the chronic WQG at QRDS1, but there were no acute or chronic WQG exceedances at 7SQR. At IRQR, downstream of the confluence with the Iron River, parameter concentrations remained below acute and chronic WQGs.

On the Iron River, most water quality parameters were low and similar between IR6 and IR8. Average total arsenic exceeded the chronic WQG during summer low-flow conditions at IR8, with concentrations increasing from IR6 to IR8. This pattern remains consistent with naturally elevated

arsenic in the Iron River system during low flows. All other parameters were below acute and chronic WQGs at IR6 and IR8.

Overall, the 2025/2026 receiving environment results indicate that water quality in the Middle Quinsam Lake Sub-Basin and downstream receiving environments remains generally stable and protective of aquatic life. Mixing of the Quinsam and Iron rivers continues to provide sufficient dilution to maintain downstream water quality below WQGs protective of aquatic life. Continued monitoring is warranted for trends associated with mine-water inputs and the RBPTS.

4.11 BIOTA MONITORING IN THE RECEIVING ENVIRONMENT

Refer to Appendix IV for all historical and present phytoplankton and zooplankton data.

4.11.1 PHYTOPLANKTON

Phytoplankton are photosynthetic microorganisms that live in lakes at depths to which adequate sunlight can penetrate. They are the main primary producers in lakes, converting sunlight, CO₂, and water into organic matter, and are the foundation for the aquatic food web (Wetzel 2001). Phytoplankton includes algae and cyanobacteria, both of which contain at least one form of chlorophyll (chlorophyll *a*), the major photosynthetic pigment. They are sensitive to changes in water quality (Wetzel 2001). Many lakes have a spring and fall phytoplankton bloom (peak growth period) following the seasonal “overturns” or mixing of the water column, which redistribute nutrients through the water column.

Phytoplankton are monitored annually at one station each in No Name, Long, Middle Quinsam, and Lower Quinsam lakes, in the deepest area of the lakes, where routine water quality monitoring is conducted. The requirements of the sampling program have changed over time based on revisions to PE:7008. In the 2025/2026 monitoring year, phytoplankton sampling was required at 1 m depth once in all four lakes during the spring 5 in 30-day water sampling period. Long and Middle Quinsam lakes were also required to be sampled once in the 5-day water sampling periods during the summer and fall. Sampling sites are shown in Appendix IX, Figure 1.

4.11.1.1 Chlorophyll *a*

Chlorophyll *a* concentrations provide an indication of overall phytoplankton biomass at any given time and provide a basis for comparing primary production among lakes. Table 4-12 provides data for samples collected from 1 m depth in 2025. The mean of duplicate samples is presented.

In 2025, chlorophyll *a* concentrations ranged from 0.53 µg/L to 2.0 µg/L, in all four lakes during the spring. Concentrations were similar between spring and summer in Long and Middle Quinsam lakes (range: 0.53 to 0.79 µg/L), with Lower Quinsam having the highest values in all seasons (1.1, 0.6 and 2 µg/L).

Table 4-12: Chlorophyll *a* Concentrations, 1 m Depth, Quinsam Lakes System, 2025

Lake	Chlorophyll <i>a</i> (µg/L)		
	Spring	Summer	Fall
No Name Lake (NNL)	0.635	N/A	N/A
Long Lake (LL)	0.79	0.53	1.75
Middle Quinsam (MQL)	0.53	0.53	1.4
Lower Quinsam (LQL)	1.1	0.6	2

Appendix IV and Figure 4.6 below provide data for 2013 through 2025. Chlorophyll *a* results for 2025 spring, summer, and fall were within the range reported for 2013 to 2025 (0.50 to 2.68 µg/L). Variability among seasons, years, and lakes between 2013 and 2025 was likely related to differences in temperature, timing of spring and fall overturn, and nutrient concentrations.

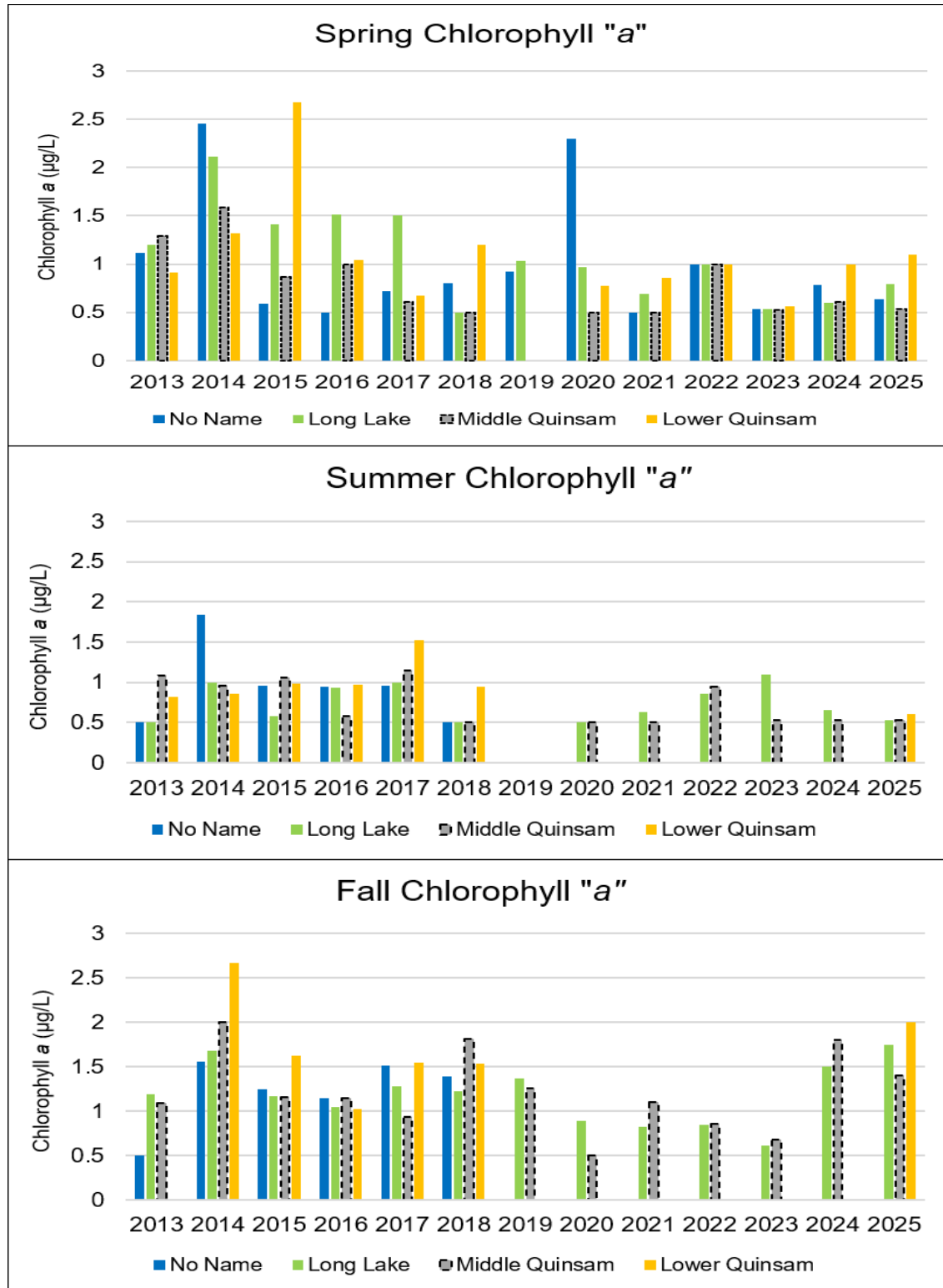


Figure 4.6: Chlorophyll a (µg/L) at 1 m Depth, Quinsam Lakes System, 2013 – 2025

4.11.1.2 *Abundance and Community Composition*

Phytoplankton taxonomy reports are included in Appendix IV and results are summarized below. Individual sample results are presented in Table 4-13, and the mean of duplicate samples is presented in Figure 4.7.

Total phytoplankton abundance ranged from 840 to 2,900 cells/mL in 2025.

Table 4-13: Phytoplankton Abundance (cells/mL) in Quinsam Lake Systems, 2025

Lakes 2025	Season	Abundance (cells/mL) at 1 m depth			
		Total	<5 µm (1000 X)	5 to 25 µm (400 X)	>25 µm (100 X)
Long	May 6-7	2,200	2,000	201	1.1
Middle Quinsam		920	830	92	1.1
No Name		1,300	1,200	140	0.9
No Name (replicate)		1,300	1,100	162	0.2
Lower Quinsam		2,200	1,900	270	19
Long	July 29-30	1,000	850	150	2.7
Middle Quinsam		880	770	110	2.5
Middle Quinsam Rep.		840	740	100	2.9
Lower Quinsam		1,100	960	180	3
Long	Oct 7-8	2,500	2,100	380	0.1
Long Replicate		2,900	2,500	370	0.1
Middle Quinsam		1,800	1,500	260	0.3
Lower Quinsam		2,100	1,500	510	86

In 2025, total phytoplankton abundance was greatest in the spring samples collected from Lower Quinsam and Long lakes (2,200 cells/mL), in summer Lower Quinsam lake (1,100 cells/mL) and in fall the replicate sample collected from Long Lake (2,900 cells/mL). The lowest results were collected from Middle Quinsam Lake in summer (mean of 860 cells/mL). Total phytoplankton abundance in Middle Quinsam Lake was relatively consistent throughout spring (920 cells/mL), summer (880 cells/mL), with fall having the highest results of 1,800 cells/mL. Phytoplankton abundance in Long Lake was highest in fall (mean 2,700 cells/mL). Summer had the lowest counts for all lakes sampled which could be due to fish grazing. Peak abundance and chlorophyll *a* concentration did not always coincide, likely related to changes in size of abundant taxa over the sampling periods.

Variation in total abundance among lakes and through the three seasonal sampling periods for 2013 through 2025 is shown in Figure 4.7.

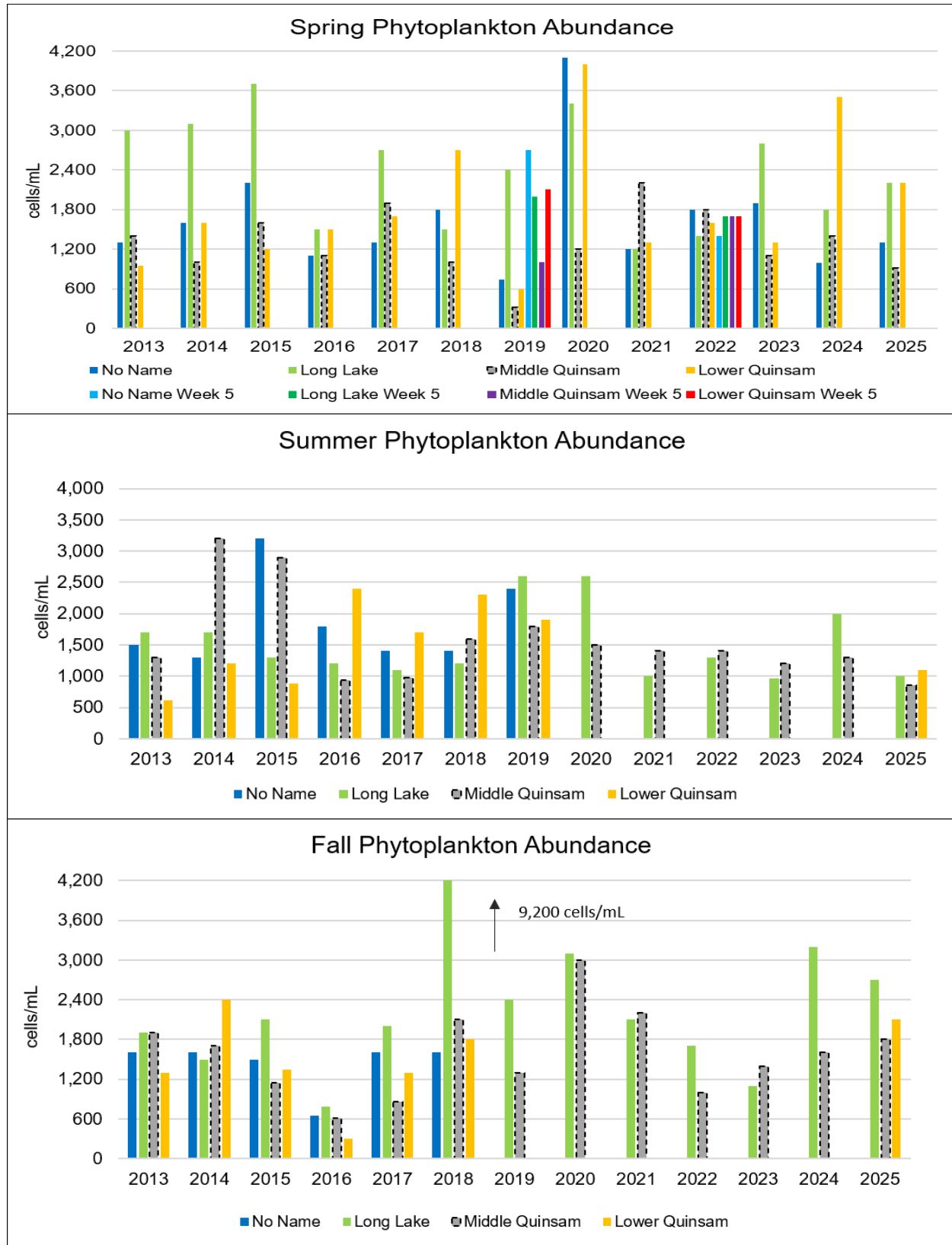


Figure 4.7: Total Phytoplankton Abundance 2013 - 2025

As noted for chlorophyll *a*, variability among seasons, years, and lakes between 2013 and 2025 was likely related to differences in temperature, timing of spring and fall overturn, and nutrient concentrations. For all lakes and all seasons, total abundance in 2025 was within the range reported for 2013 to 2024 (300 to 9,200 cells/mL).

Spring Community Composition

The most abundant phytoplankton in the four lakes in spring 2025 were the small (less than or equal to 5 µm) chrysoflagellates (*Ochromonas spp.* and *Chromulina spp.*). Although these ultra-nanoplankton species were very abundant numerically, they usually contribute little to algal biomass. Among the larger algae, the most abundant species were as follows:

- Long Lake — chrysophytes *Ochromonas spp.* (predominant) and cryptophytes *Rhodomonas minuta* and *Cryptomonas spp.* (common)
- Middle Quinsam Lake — *Ochromonas spp.* (predominant)
- No Name Lake — cryptophyte *Rhodomonas minuta* (predominant) and chrysophytes *Ochromonas spp.* and *Mallomonas spp.*, and cryptophyte *Cryptomonas spp.* (common).
- Lower Quinsam Lake — chrysophytes *Ochromonas spp.* and *Dinobryon sp.* (predominant), *Dinobryon bavaricum*, *Rhodomonas minuta*, and *Cryptomonas spp.* (common).

The May 2025 samples were similar in composition and abundance to samples collected during the spring in recent years.

Summer Community Composition

The most abundant phytoplankton in Long Lake in summer 2024 were the small (less than or equal to 5 µm) chrysoflagellates (*Ochromonas spp.* and *Chromulina spp.*). The small green alga *Oocystis sp.* was predominant in the Middle Quinsam Lake sample, with the chrysoflagellates subdominant. Although these species were very abundant numerically, they usually contribute little to algal biomass. Among the larger algae, the most abundant species were as follows:

- Long Lake – cryptophyte *Rhodomonas minuta* (predominant) and chrysophytes *Ochromonas spp.* and cryptophyte *Cryptomonas spp.* (common)
- Middle Quinsam Lake – chrysophyte *Ochromonas spp.*, green *Dictyosphaerium pulchellum*, and cryptophytes *Rhodomonas minuta* and *Cryptomonas spp.* (common) (no clearly predominant taxa)
- Lower Quinsam Lake – *Ochromonas spp.* (predominant), *Cryptomonas spp.* and *Rhodomonas minuta* (common).

The July 2025 samples were similar in composition and abundance to samples collected during the summer in recent years.

Fall Community Composition

The most abundant phytoplankton in fall 2025 in Long Lake and Middle Quinsam lakes were the small (less than or equal to 5 µm) chrysoflagellates (*Ochromonas* spp. and *Chromulina* spp.). Although these ultra-nanoplankton species were very abundant numerically, they usually contribute little to algal biomass.

Among the larger algae, the most abundant species were as follows:

- Long Lake – cryptophyte *Rhodomonas minuta* (predominant) and chrysophytes *Ochromonas* spp. (common)
- Middle Quinsam Lake – chrysophytes *Ochromonas* spp. and *Dinobryon cylindricum* (predominant) and cryptophytes *Rhodomonas minuta* and *Cryptomonas* spp. (common)
- Lower Quinsam Lake – cryptophyte *Rhodomonas minuta*, chrysophytes *Ochromonas* spp. and *Dinobryon sociale*, and cryptophyte *Cryptomonas* spp. (predominant)

The October 2025 samples were similar in composition and abundance to samples collected during the fall in recent years.

QA/QC

Duplicate samples collected in No Name, Long, and Middle Quinsam lakes in the spring, summer, and fall, respectively, had percentage differences between samples of less than or equal to 10%, indicating good agreement between samples. A difference of up to 10% can be expected for a total cell count of 400 organisms, for repeat sampling from the same bottle; higher percentage differences can be expected when separate grabs are used for the replicates, as was the case for this program. In both cases phytoplankton taxonomic composition was also similar between the duplicate samples.

4.11.2 ZOOPLANKTON

Zooplankton form the second trophic level in the water column of lakes (secondary producers), grazing on phytoplankton, consuming organic matter, and providing a food source for juvenile fish (Wetzel 2001). Abundance and composition of the zooplankton community vary among lakes due to variation in water chemistry, lake characteristics, and grazing pressures from fish (Wetzel 2001).

According to PE:7008, zooplankton are monitored once a year during the spring 5 in 30-day water sampling period for No Name and Lower Quinsam lakes and three times per year during the spring, summer, and fall 5 in 30-day water quality sampling periods for Middle Quinsam and Long lakes. Sampling sites are shown in Appendix IX, Figure 1.

4.11.2.1 Abundance and Community Composition

Zooplankton taxonomy reports are included in Appendix IV and results are summarized below.

Total zooplankton abundance is the number of individuals found per sample. In 2025, total zooplankton abundance was highest in Long Lake in spring (4,675 organisms/sample) and lowest in Middle Quinsam Lake in fall (1,477 organisms/sample). Total abundance was highest in Lower Quinsam Lake displaying the greatest abundance during summer and fall (6040 organisms/sample and mean of 5992 organisms/sample), respectively (Table 4-14).

Table 4-14: Zooplankton Abundance (Organisms/sample)

Lakes 2025	Month	Abundance (organisms/sample)					
		Total	Cyclopoida	Calanoida	Cladocera	Rotifera	Copepod Nauplii
No Name	Spring	4598	58	235	531	3400	375
	Spring (replicate)	N/A	N/A	N/A	N/A	N/A	N/A
	Summer	N/A	N/A	N/A	N/A	N/A	N/A
	Fall	N/A	N/A	N/A	N/A	N/A	N/A
Long Lake	Spring	4675	371	229	175	2600	1300
	Summer	3651	296	392	1336	1093	533
	Fall	4483	330	100	920	2800	333
	Fall (replicate)	3780	287	240	960	1947	347
Middle Quinsam	Spring	2100	83	63	553	467	933
	Summer	4213	490	520	1710	987	507
	Summer (replicate)	5909	736	591	1888	1440	1253
	Fall	1477	24	96	424	933	0
Lower Quinsam	Spring	2937	975	100	195	917	750
	Summer	6040	813	227	1987	2453	560
	Fall	6216	200	204	612	5080	120

Zooplankton abundance by taxonomic group is displayed in Table 4-14 for samples collected in 2025. Rotifers were the most abundant taxonomic group in most samples, including No Name Lake in spring, Long Lake in spring and fall, Middle Quinsam Lake in fall, and Lower Quinsam Lake in fall. Exceptions included Middle Quinsam Lake in spring, when copepod nauplii were the most abundant group, and Long Lake, Middle Quinsam Lake, and Lower Quinsam Lake in summer, when cladocerans were the most abundant group.

Although rotifers were dominant in many samples, copepod nauplii and cladocerans were also important components of the zooplankton community. Copepod nauplii were relatively abundant in Long Lake spring, Middle Quinsam Lake spring, and Lower Quinsam Lake spring, but were absent from the Middle Quinsam Lake fall sample. Cladocerans were especially abundant in Long Lake summer, Middle Quinsam Lake summer, and Lower Quinsam Lake summer, and were comparatively low in Long Lake spring and Lower Quinsam Lake spring. Calanoid and cyclopoid copepods generally occurred at lower abundances than rotifers, cladocerans, and copepod nauplii; however, cyclopoid copepods made up a relatively large component of Lower Quinsam Lake in spring.

Total zooplankton abundance varied among lakes and seasons in 2025. No Name Lake was sampled only in spring, with a total abundance of 4,598 organisms/sample and a community dominated by rotifers. Long Lake abundance was relatively consistent across seasons, ranging from 3,651 organisms/sample in summer to 4,675 organisms/sample in spring, with the fall replicate similar to the primary fall sample. Middle Quinsam Lake had lower abundance in spring and fall, with higher abundance in summer; the summer replicate was also elevated. Lower Quinsam Lake had the highest total abundance observed in 2025, with 6,040 organisms/sample in summer and 6,216 organisms/sample in fall, largely reflecting high abundances of cladocerans in summer and rotifers in fall.

Differences in zooplankton taxonomic composition are related to seasonal conditions, including food supply from phytoplankton and organic matter, water temperature, and grazing pressures from fish. Larger copepods and cladocerans provide preferred food sources for fish. All four lakes are known to be fish bearing, including salmon and trout species, but there is not enough information about fish populations to estimate grazing pressures on zooplankton.

Seasonal and spatial trends in total zooplankton abundance are displayed in Figure 4.8 for samples collected from 2014 through 2025. There has been high variability among lakes, seasons, and years. In 2025, summer abundance was highest in Long Lake, Middle Quinsam Lake, and Lower Quinsam Lake, while No Name Lake was sampled only in spring. Variations in total abundance may be related to sampling timing, water temperature, water chemistry, and changes in phytoplankton communities through time. Samples collected earlier in spring or later in fall, when water temperatures are cooler, may have lower abundances, as observed in the fall Middle Quinsam Lake sample.

Total zooplankton abundance in 2025 was within the range of variability observed in previous monitoring years for the lakes sampled, with the highest 2025 abundances recorded in Lower Quinsam Lake during summer and fall. The 2025 results continue to show variability among lakes and seasons, with community composition shifting among rotifers, cladocerans, and copepod nauplii depending on lake and sampling period.

4.11.2.2 *QA/QC*

Percent agreement between the zooplankton QA samples was estimated to be 89%, exceeding the target of 80%. This high level of accuracy reinforces confidence in the reliability of the subsampling methods and robustness of the resulting data.

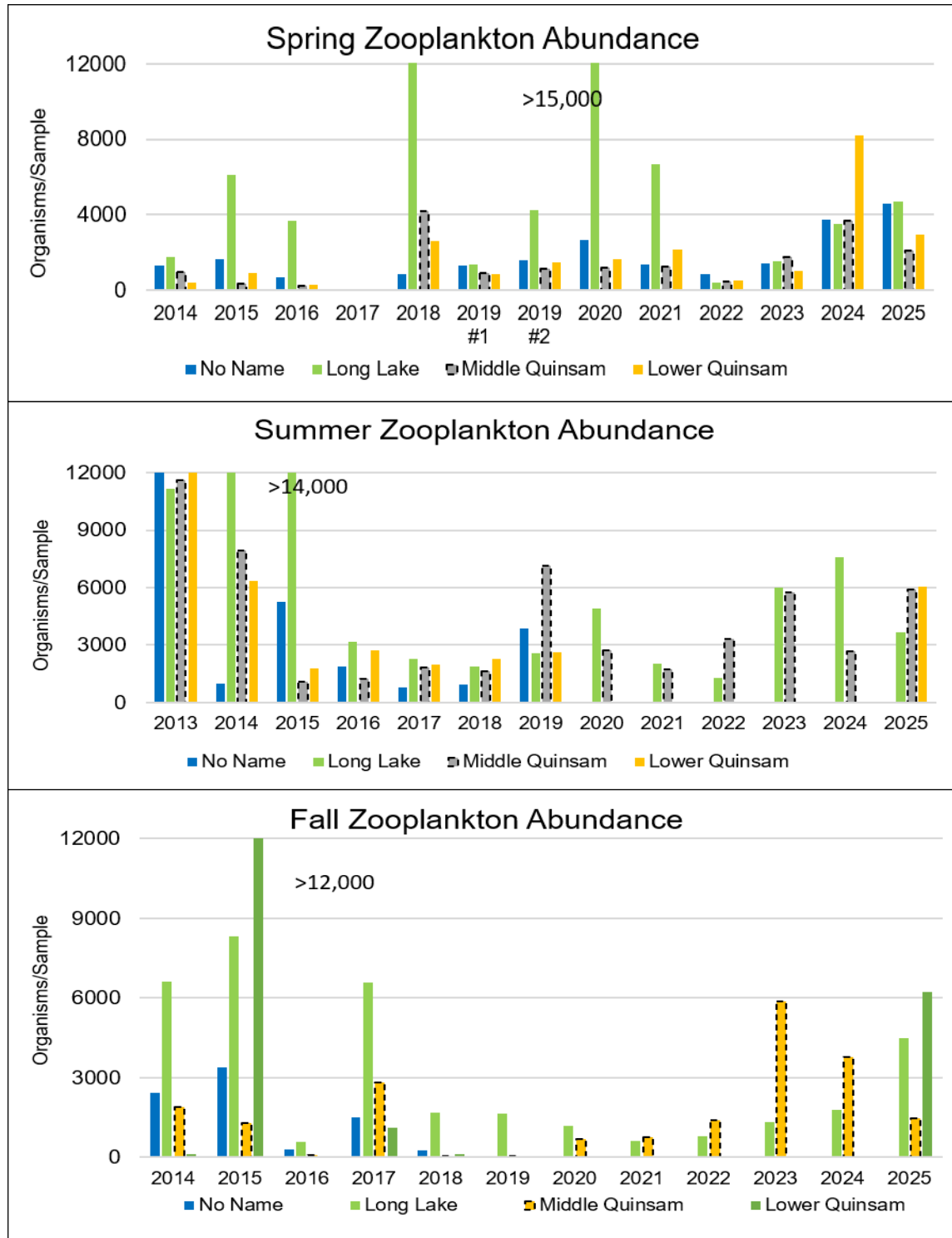


Figure 4.8: Total Zooplankton Abundance (0 to 10 m Vertical Tows), Quinsam Lakes System, 2014 – 2025

4.11.3 *CONCLUSION*

Phytoplankton, chlorophyll a, and zooplankton in No Name, Long, Middle Quinsam, and Lower Quinsam lakes remained within historical 2013-2025 ranges, with 2025 samples showing expected seasonal community composition. Despite historical peaks in 2013-2014, the 2025 data indicate stable zooplankton production, supported by high-quality assurance metrics and no evidence of adverse impacts from mine discharges.

Overall, there were no clear indications of adverse effects related to mine discharges on phytoplankton or zooplankton communities in 2025.

5.0 CLOSING

Water quality in the Middle Quinsam Lake Sub-Basin remained consistent with previous years and is in good condition with little appreciable impact associated with coal mining. Most parameters were below WQGs and WQOs indicating minimal health risk to sensitive aquatic receptors. Average dissolved sulphate concentrations were recorded below the most conservative guideline (128 mg/L) during all sampling events in all four lakes sampled and in all surrounding rivers and streams. This trend signifies that water management features and controls at the mine site are effective. Dissolved copper was elevated throughout the watershed in comparison to the WQGs, for which there were multiple exceedances of WQGs upstream and downstream of mine influence. Exceedances of WQGs for total manganese were observed during fall in both Long and Middle Quinsam lakes in waters containing low dissolved oxygen (<3 mg/L) near the lake bottom. Observations of low dissolved oxygen at depth are common during periods of stratification in summer and early fall and can result in mobilization of manganese from the sediments to the water column. There were no parameters above WQGs observed in the Quinsam River at QRDS1 or 7SQR.

On the Iron River, average total arsenic concentrations were elevated above the chronic WQG during summer low flow at IR8, and concentrations increased from IR6 to IR8 (downstream). The Iron River system experiences naturally elevated arsenic concentrations (above WQG) during low flows. There were no parameters above WQGs observed downstream of the confluence of the Quinsam and Iron rivers at IRQR. Therefore, mixing of the Quinsam and Iron Rivers continues to provide sufficient dilution to maintain water quality in the watershed below WQGs protective of aquatic life.

Overall, there were no clear indications of adverse effects of mine discharges on the phytoplankton or zooplankton communities in 2024.

QCC will continue to focus on site wide water management with a target of mitigating concentrations of parameters of interest in the receiving environment. To date, QCC has demonstrated that the existing mine related controls and features have been effective at maintaining water quality below WQGs. This trend is expected to persist and will be highlighted by future monitoring programs.

In closing, QCC trusts the information herein addresses the environmental responsibilities and provisions applicable to effluent permit PE:7008.

Should you have any questions or concerns please contact the QCC Environmental Department 250-286-3224 Ext 225.

Table 1 Description of Effluent, In-Mine Releases and Receiving Environment Monitoring Sites 1 Page(s)

EMS ID #	Monitoring Sites	Abbreviation (Station Code)	*Type of Water (MW, FW or GW)
North Coal Mining Operation			
E207409	Settling Pond #4 Decant	WD	Discharge (MW)
E207411	Culvert, at Middle Quinsam Lake Road	WC	MW & FW
E283433	2-North Portal Sump (Adit Sump)	2NPS	MW
E207412	2-North Pit Sump CCR Cover	WP	PAG-CCR Water Cover - MW
South Coal Mine			
E218582	Settling Pond #1 Decant	SPD	Discharge (MW)
E217014	Culvert, Downstream End at Access Road	SPC	MW & FW
E217015	South Pit Main Sump Water	3S	PAG-CCR Water Cover (MW & FW)
E292127	2-South Pit In Pit Water Cover (2-South Standpipe)	2S	PAG-CCR Water Cover (MW & FW)
7-South Mining Operation			
E292069	7-South Surface Decant	7SSD	Discharge (SW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	GW / MW
	Groundwater surfacing with potential mine influence near QU1109	S and SUS	GW / SW
	Artesian spring with potential mine influence near QU1105	S2A	GW / SW
	Groundwater surfacing with potential mine influence near QU1105	S2US and S2B	GW / SW
Receiving Environment Monitoring Sites - Near Initial Zone of Dilution (NIDZ)			
Near Initial Dilution Zone (NIDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake near the outlet)	LLE	NIDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	NIDZ
Receiving Water (Rivers & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mining Operation			
E0126402	Quinsam River at Argonaut Bridge	WA	FW
E206618	Middle Quinsam Lake Centre	MQL (1, 4, 9 & 1m from Bottom)	FW
E0900504	Outflow from Middle Quinsam Lake	WB	FW
South Coal Mine			
E217018	No Name Lake	NNL (1, 4, 9 & 1m from Bottom)	FW
E217017	No Name Lake Outlet	NNO	FW
E206619	Long Lake at Centre	LLM (1, 4, 9 & 1m from Bottom)	FW
E219412	Long Lake Outlet	LLO	FW
7-South Mining Operation (Areas 1 to 4)			
E286930	Quinsam River Upstream of 7-South Mining Operation	QRDS1	FW
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South Area 5 Mining Operation			
E297231	Iron River upstream of 7SA5 and 242 influence	IR6	FW
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	FW
E299256	Quinsam River downstream of confluence with Iron River	IRQR	FW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the Passive Treatment System (PTS)	QU11-11 (INF-EFF)	MW
N/A	Biochemical Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow (From Passive Treatment System)	2SI	MW
N/A	2-South Culvert into 3-South Pit (Seepage under liner and overflow from 2S-pit)	2SC	MW
*MW=Mine Water, FW=Freshwater, GW=Groundwater, SW=Surface Water, NIDZ=Near Initial Dilution Zone, PTS=Passive Treatment System, PAG-CCR=Potentially Acid Generating Coal Coarse Reject			

Appendix 1 - Tables

Table 2 Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges 1 Page(s)

Appendix 1 - Tables					
Table 2 Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges 1 Page(s)					
EMS ID & Site Name	Non-Compliance (PNC)	Result (mg/L)	Date	Notes	Number of events or period for PNC, P or spill event.
E218582 - Settling Pond 1	Oil and Grease	1.2	04-Apr-25	Maintenance performed on 3-South Pit pump may have caused sampled water at Settling Pond 1 to report above dection limits for oil and grease.	1 out of 6 results
E292131 - LLSM	Bypass of authorized works	Mine influenced water bypassed the authoized works, Settling Pond #1.	April 1 to 29th and November to March 31st	LLSM flowed for approximately 180 days.	180 days
Pearked Water Tables (S and S2A, and S2B)	Bypass of authorized works	Mine influenced water bypassed the authoized works, Settling Pond #4.	April to August and November to March	Approximately 243 days, excluding the August–November period.	243 days
No Quarterly reports submitted.					

Receiving Environment - Water Quality Guideline (WQG) Observations					
Criteria Name	Sample ID	Parameter	Criteria	Result	Units
Water Quality Objective Hypolimnetic Dissolved Oxygen (D.O.)	LLM (16 to 20) meters - Fall	Dissolved Oxygen (DO)	>3.00 mg/L	>3.00 mg/L	mg/L
	MQL (13 and 14) meters - Fall				
	LQL (14 to 17) meters - Summer and Fall				
BC Approved WQG - AVE	No Name Lake 9M (Spring)	Total Aluminium (Al)	0.033	0.0429	mg/L
BC Approved WQG - AVE	No Name Lake Bottom (Spring)	Total Aluminium (Al)	0.031	0.0409	mg/L
BC Approved WQG - AVE	NNL1-16APR25-M	Total Aluminium (Al)	0.036	0.0389	mg/L
BC Approved WQG - AVE	NNL1-23APR25-M	Total Aluminium (Al)	0.034	0.0828	mg/L
BC Approved WQG - AVE	NNL1-9APR25-M	Total Aluminium (Al)	0.036	0.0428	mg/L
BC Approved WQG - AVE	NNL4-16APR25-M	Total Aluminium (Al)	0.039	0.0406	mg/L
BC Approved WQG - AVE	NNL4-23APR25-M	Total Aluminium (Al)	0.036	0.0366	mg/L
BC Approved WQG - AVE	NNL4-9APR25-M	Total Aluminium (Al)	0.034	0.0431	mg/L
BC Approved WQG - AVE	NNL9-16APR25-M	Total Aluminium (Al)	0.033	0.0433	mg/L
BC Approved WQG - AVE	NNL9-23APR25-M	Total Aluminium (Al)	0.034	0.044	mg/L
BC Approved WQG - AVE	NNL9-30APR25-M	Total Aluminium (Al)	0.033	0.0407	mg/L
BC Approved WQG - AVE	NNL9-9APR25-M	Total Aluminium (Al)	0.024	0.0453	mg/L
BC Approved WQG - AVE	NNLB-16APR25-M	Total Aluminium (Al)	0.031	0.042	mg/L
BC Approved WQG - AVE	NNLB-23APR25-M	Total Aluminium (Al)	0.029	0.0383	mg/L
BC Approved WQG - AVE	NNLB-30APR25-M	Total Aluminium (Al)	0.028	0.0407	mg/L
BC Approved WQG - AVE	NNLB-6MAY25-M	Total Aluminium (Al)	0.038	0.0386	mg/L
BC Approved WQG - AVE	NNLB-9APR25-M	Total Aluminium (Al)	0.026	0.0451	mg/L
BC Approved WQG - AVE	WA-14APR25-M	Total Aluminium (Al)	0.022	0.0232	mg/L
BC Approved WQG - AVE	QRD51-19DEC25-M	Total Aluminium (Al)	0.046	0.0508	mg/L
BC Approved WQG - AVE	7S-3FEB26-M	Total Aluminium (Al)	0.031	0.0416	mg/L
BC Approved WQG - AVE	7S-5MAY25-M	Total Aluminium (Al)	0.046	0.0462	mg/L
BC Approved WQG - MAX	LLM1-23JUL25-M	Total Zinc (Zn)	0.03300	0.0616	mg/L
BC Approved WQG - AVE	Long Lake 1M (Summer)	Total Zinc (Zn)	0.0075	0.01354	mg/L
BC Approved WQG - AVE	Lower Quinsam Lake 1MB (Summer)	Total Iron (Fe)	0.3	0.3565	mg/L
BC Approved WQG - AVE	Lower Quinsam Lake 1MB (Fall)	Total Iron (Fe)	0.41	1.37	mg/L
BC Approved WQG - Max	LQLB-8OCT25-M	Total Iron (Fe)	1.00	1.82	mg/L
BC Approved WQG - Max	LQLB-15OCT25-M	Total Iron (Fe)	1.00	1.76	mg/L
BC Approved WQG - Max	LQLB-21OCT25-M	Total Iron (Fe)	1.00	3	mg/L
WQO - AVE	Long Lake 1MB (Summer)	Total Manganese (Mn)	0.737	0.848	mg/L
WQO - Max	LLMB-7OCT25-M	Total Manganese (Mn)	0.8706	0.998	mg/L
WQO - Max	LLMB-15OCT25-M	Total Manganese (Mn)	0.8706	0.821	mg/L
WQO - Max	LLMB-22OCT25-M	Total Manganese (Mn)	0.8706	1.11	mg/L
WQO - Max	LLMB-29OCT25-M	Total Manganese (Mn)	0.8706	0.925	mg/L
WQO - Max	MQLB-16OCT25-M	Total Manganese (Mn)	0.8706	1.07	mg/L
WQO - Max	LQLB-21OCT25-M	Total Manganese (Mn)	0.8706	0.906	mg/L
Wetland (LLE)					
Criteria Name	Sample ID	Parameter	Criteria	Result	Units
BC Approved WQG - MAX	LLE-25EP25-M	Total Iron (Fe)	1	3.43	mg/L
BC Approved WQO - MAX	LLE-25EP25-M	Total Manganese (Mn)	0.8706	3.92	mg/L
BC Approved WQG - MAX	LLE-1OCT25-M	Total Iron (Fe)	1	1.52	mg/L

Appendix 1 - Tables

Table 4A Acute and Chronic Copper Water Quality Guidelines 1 Page(s)

Results Acute and Chronic Copper Water Quality Guideline's				
Acute Cu-D (mg/L)				
Aquatic Life Guideline:				
Date	Sample Number	Station Code	Cu-D (mg/L)	Acute WQG (mg/L)
09-Apr-25	No Name Lake 9 m	NNL9	0.000460	0.0003
16-Apr-25	No Name Lake 1 meter from Bottom	NNLB	0.000420	0.0004
23-Apr-25	No Name Lake 1 meter from Bottom	NNLB	0.000486	0.0004
30-Apr-25	No Name Lake 1 meter from Bottom	NNLB	0.000432	0.0004
09-Apr-25	No Name Lake 1 meter from Bottom	NNLB	0.000460	0.0003
14-Apr-25	Quinsam River at Argonaut	WA	0.001040	0.0002
26-Jan-26	Quinsam River Upstream of RBP	QRUS	0.000687	0.0006
26-Jan-26	Quinsam River Downstream of RBP	QRDS	0.000573	0.0005
19-Jan-26	Quinsam River Downstream of RBP Site A	QRDSA	0.000603	0.0006
Average Chronic Cu-D (mg/L)				
Aquatic Life Guideline:				
Season	Site Name	Station Code	(mg/L)	(mg/L)
Spring Average of 5 weeks	Quinsam River at Argonaut	WA	0.00070	0.0003
Summer Average of 5 weeks	Quinsam River at Argonaut	WA	0.00055	0.0005
Spring Average of 5 weeks	LLE Zone of Dilution	LLEZ2	0.000394	0.0002
Spring Average of 5 weeks	Long Lake Middle 1 M	LLM1	0.0004	0.0002
Spring Average of 5 weeks	Long Lake Middle 4 M	LLM4	0.000395	0.0003
Spring Average of 5 weeks	Long Lake Middle 9 M	LLM9	0.000418	0.0003
Spring Average of 5 weeks	Long Lake Middle 1M from Bottom	LLMB	0.000423	0.0002
Fall Average of 5 weeks	Long Lake Middle 1M from Bottom	LLMB	0.000348	0.0002
Spring Average of 5 weeks	Lower Quinsam Lake 1 M	LQL1	0.000573	0.0003
Fall Average of 5 weeks	Lower Quinsam Lake 1 M	LQL1	0.000631	0.0006
Spring Average of 5 weeks	Lower Quinsam Lake 4 M	LQL4	0.000581	0.0004
Fall Average of 5 weeks	Lower Quinsam Lake 4 M	LQL4	0.000637	0.0006
Spring Average of 5 weeks	Lower Quinsam Lake 9 M	LQL9	0.000583	0.0003
Fall Average of 5 weeks	Lower Quinsam Lake 9 M	LQL9	0.000655	0.0005
Spring Average of 5 weeks	Lower Quinsam Lake 1M from Bottom	LQLB	0.000695	0.0003
Summer Average of 5 weeks	Lower Quinsam Lake 1M from Bottom	LQLB	0.000523	0.0003
Fall Average of 5 weeks	Lower Quinsam Lake 1M from Bottom	LQLB	0.000538	0.0003
Spring Average of 5 weeks	Middle Quinsam Lake 1 M	MQL1	0.00058	0.0002
Fall Average of 5 weeks	Middle Quinsam Lake 1 M	MQL1	0.000471	0.0004
Spring Average of 5 weeks	Middle Quinsam Lake 4 M	MQL4	0.000672	0.0003
Fall Average of 5 weeks	Middle Quinsam Lake 4 M	MQL4	0.000467	0.0004
Spring Average of 5 weeks	Middle Quinsam Lake 9 M	MQL9	0.000509	0.0003
Fall Average of 5 weeks	Middle Quinsam Lake 9 M	MQL9	0.000452	0.0004
Spring Average of 5 weeks	Middle Quinsam Lake 1M from Bottom	MQLB	0.000504	0.0002
Fall Average of 5 weeks	Middle Quinsam Lake 1M from Bottom	MQLB	0.00045	0.0003
Spring Average of 5 weeks	No Name Lake 1 M	NNL1	0.000443	0.0002
Spring Average of 5 weeks	No Name Lake 4 M	NNL4	0.000449	0.0002
Spring Average of 5 weeks	No Name Lake 9 M	NNL9	0.00045	0.0002
Spring Average of 5 weeks	No Name Lake 1M from Bottom	NNLB	0.000468	0.0002
Nov Averages	Middle Quinsam Lake Outlet	WB	0.00056	0.0005
Dec Averages	Middle Quinsam Lake Outlet	WB	0.00054	0.0005
Dec Averages	Middle Quinsam Lake Outlet	WB	0.00058	0.0004
Dec Averages	Middle Quinsam Lake Outlet	WB	0.00063	0.0006
Feb Averages	Middle Quinsam Lake Outlet	WB	0.00065	0.0006
Mar Averages	Middle Quinsam Lake Outlet	WB	0.00059	0.0004
Jan Averages	Quinsam River Upstream of RBP	QRUS	0.00057	0.0003
Feb Averages	Quinsam River Upstream of RBP	QRUS	0.00060	0.0003
Mar Averages	Quinsam River Upstream of RBP	QRUS	0.00056	0.0003
Jan Averages	Quinsam River Downstream of RBP	QRDS	0.00056	0.0002
Feb Averages	Quinsam River Downstream of RBP	QRDS	0.00056	0.0003
Mar Averages	Quinsam River Downstream of RBP	QRDS	0.00056	0.0004
Jan Averages	Quinsam River Downstream of RBP Site A	QRDSA	0.00056	0.0002
Feb Averages	Quinsam River Downstream of RBP Site A	QRDSA	0.00060	0.0002
Mar Averages	Quinsam River Downstream of RBP Site A	QRDSA	0.00054	0.0003
Dec Averages	Quinsam River Downstream of RBP Site B	QRDSB	0.00071	0.0006
Jan Averages	Quinsam River Downstream of RBP Site B	QRDSB	0.00055	0.0005
Feb Averages	Quinsam River Downstream of RBP Site B	QRDSB	0.00062	0.0006
Mar Averages	Quinsam River Downstream of RBP Site B	QRDSB	0.00057	0.0005
Nov Averages	Quinsam River Downstream of Site 1	QRDS1	0.00060	0.0005
Dec Averages	Quinsam River Downstream of Site 1	QRDS1	0.00055	0.0005
Bold Red indicates the calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HCS value for this water chemistry.				
Bold Blue indicates individual results are greater then the Acute Guideline.				
Bold Green indicates the Averaged results are greater then the Averaged Chronic Guideline.				

Appendix 1 - Tables

Table 4B Individual Chronic Cu-D (mg/L) Spring, Summer and Fall 3 Page(s)

Individual Cu-D (mg/L) Results above Chronic WQG			
Aquatic Life Guideline:			
Sample Number	Copper Concentration (mg/L)	Chronic WQG (mg/L)	Exceedance
LLEZ2-9APR25-M	0.00041	0.0002	TRUE
LLEZ2-16APR25-M	0.00036	0.0002	TRUE
LLEZ2-23APR25-M	0.00042	0.0002	TRUE
LLEZ2-30APR25-M	0.00041	0.0002	TRUE
LLEZ2-15OCT25-M	0.00041	0.0004	TRUE
LLEZ2-29OCT25-M	0.00050	0.0004	TRUE
LLEZ2-6NOV25-M	0.00059	0.0004	TRUE
LLM1-9APR25-M	0.00039	0.0002	TRUE
LLM1-16APR25-M	0.00036	0.0002	TRUE
LLM1-23APR25-M	0.00043	0.0002	TRUE
LLM1-30APR25-M	0.00037	0.0002	TRUE
LLM1-6MAY25-M	0.00046	0.0004	TRUE
LLM1-7OCT25-M	0.00043	0.0004	TRUE
LLM1-29OCT25-M	0.00051	0.0004	TRUE
LLM1-6NOV25-M	0.00061	0.0004	TRUE
LLM1-6NOV25-R	0.00060	0.0004	TRUE
LLM4-9APR25-M	0.00041	0.0003	TRUE
LLM4-16APR25-M	0.00038	0.0002	TRUE
LLM4-16APR25-R	0.00036	0.0002	TRUE
LLM4-23APR25-M	0.00045	0.0003	TRUE
LLM4-30APR25-M	0.00038	0.0002	TRUE
LLM4-29OCT25-M	0.00055	0.0004	TRUE
LLM4-29OCT25-R	0.00055	0.0004	TRUE
LLM4-6NOV25-M	0.00056	0.0004	TRUE
LLM9-9APR25-M	0.00040	0.0002	TRUE
LLM9-16APR25-M	0.00040	0.0002	TRUE
LLM9-23APR25-M	0.00046	0.0003	TRUE
LLM9-30APR25-M	0.00042	0.0002	TRUE
LLM9-6MAY25-M	0.00042	0.0003	TRUE
LLM9-29OCT25-M	0.00041	0.0004	TRUE
LLM9-6NOV25-M	0.00051	0.0005	TRUE
LLMB-9APR25-M	0.00043	0.0003	TRUE
LLMB-16APR25-M	0.00039	0.0002	TRUE
LLMB-23APR25-M	0.00048	0.0002	TRUE
LLMB-30APR25-M	0.00041	0.0002	TRUE
LLMB-6MAY25-M	0.00041	0.0003	TRUE
LLMB-6AUG25-M	0.00037	0.0003	TRUE
LLMB-7OCT25-M	0.00037	0.0002	TRUE
LLMB-15OCT25-M	0.00034	0.0002	TRUE
LLMB-22OCT25-M	0.00035	0.0003	TRUE
LLMB-29OCT25-M	0.00035	0.0002	TRUE
LLMB-6NOV25-M	0.00033	0.0002	TRUE

Red = calculated GL is below 0.0002 mg/L, considered to be the lowest concentration measured.

Green - Averaged results > Averaged Chronic WQG.

Appendix 1 - Tables

Table 4B Individual Chronic Cu-D (mg/L) Spring, Summer and Fall 3 Page(s)

Individual Cu-D (mg/L) Results above Chronic WQG			
Aquatic Life Guideline:		Copper Concentration	Chronic WQG
Sample Number	(mg/L)	(mg/L)	Exceedance
LQL1-15APR25-M	0.00057	0.0002	TRUE
LQL1-24APR25-M	0.00053	0.0002	TRUE
LQL1-24APR25-R	0.00054	0.0002	TRUE
LQL1-29APR25-M	0.00057	0.0002	TRUE
LQL1-29APR25-R	0.00056	0.0002	TRUE
LQL1-7MAY25-M	0.00057	0.0004	TRUE
LQL1-15OCT25-M	0.00054	0.0004	TRUE
LQL1-21OCT25-M	0.00053	0.0005	TRUE
LQL1-29OCT25-M	0.00076	0.0006	TRUE
LQL1-4NOV25-M	0.00072	0.0006	TRUE
LQL1-4NOV25-R	0.00073	0.0006	TRUE
LQL4-10APR25-M	0.00069	0.0006	TRUE
LQL4-15APR25-M	0.00057	0.0002	TRUE
LQL4-24APR25-M	0.00052	0.0003	TRUE
LQL4-29APR25-M	0.00056	0.0003	TRUE
LQL4-7MAY25-M	0.00056	0.0005	TRUE
LQL4-8OCT25-M	0.00058	0.0004	TRUE
LQL4-15OCT25-M	0.00056	0.0005	TRUE
LQL4-21OCT25-M	0.00054	0.0005	TRUE
LQL4-29OCT25-M	0.00078	0.0006	TRUE
LQL4-4NOV25-M	0.00073	0.0005	TRUE
LQL9-10APR25-M	0.00068	0.0006	TRUE
LQL9-15APR25-M	0.00056	0.0002	TRUE
LQL9-24APR25-M	0.00055	0.0003	TRUE
LQL9-29APR25-M	0.00055	0.0002	TRUE
LQL9-7MAY25-M	0.00057	0.0004	TRUE
LQL9-6AUG25-M	0.00045	0.0003	TRUE
LQL9-8OCT25-M	0.00061	0.0005	TRUE
LQL9-15OCT25-M	0.00055	0.0005	TRUE
LQL9-21OCT25-M	0.00065	0.0005	TRUE
LQL9-29OCT25-M	0.00075	0.0006	TRUE
LQL9-4NOV25-M	0.00071	0.0005	TRUE
LQLB-10APR25-M	0.00127	0.0004	TRUE
LQLB-15APR25-M	0.00057	0.0002	TRUE
LQLB-24APR25-M	0.00054	0.0002	TRUE
LQLB-29APR25-M	0.00055	0.0002	TRUE
LQLB-7MAY25-M	0.00055	0.0003	TRUE
LQLB-9JUL25-M	0.00051	0.0004	TRUE
LQLB-16JUL25-M	0.00056	0.0003	TRUE
LQLB-30JUL25-M	0.00058	0.0002	TRUE
LQLB-6AUG25-M	0.00047	0.0002	TRUE
LQLB-8OCT25-M	0.00050	0.0002	TRUE
LQLB-15OCT25-M	0.00041	0.0002	TRUE
LQLB-21OCT25-M	0.00028	0.0002	TRUE
LQLB-29OCT25-M	0.00079	0.0007	TRUE
LQLB-4NOV25-M	0.00071	0.0005	TRUE
MQL1-9APR25-M	0.00067	0.0003	TRUE
MQL1-16APR25-M	0.00051	0.0003	TRUE
MQL1-23APR25-M	0.00061	0.0002	TRUE
MQL1-23APR25-R	0.00062	0.0002	TRUE
MQL1-30APR25-M	0.00057	0.0002	TRUE
MQL1-6MAY25-M	0.00054	0.0003	TRUE
MQL1-7OCT25-M	0.00046	0.0004	TRUE
MQL1-16OCT25-M	0.00039	0.0003	TRUE
MQL1-21OCT25-M	0.00042	0.0002	TRUE
MQL1-21OCT25-R	0.00043	0.0002	TRUE
MQL1-4NOV25-M	0.00056	0.0003	TRUE
MQL4-9APR25-M	0.00057	0.0003	TRUE
MQL4-16APR25-M	0.00053	0.0003	TRUE
MQL4-23APR25-M	0.00058	0.0002	TRUE
MQL4-30APR25-M	0.00111	0.0003	TRUE
MQL4-30APR25-R	0.00055	0.0003	TRUE
MQL4-6MAY25-M	0.00057	0.0002	TRUE
MQL4-7OCT25-M	0.00043	0.0004	TRUE

Red = calculated GL is below 0.0002 mg/L, considered to be the lowest concentration measured.

Green - Averaged results > Averaged Chronic WQG.

Appendix 1 - Tables

Table 4B Individual Chronic Cu-D (mg/L) Spring, Summer and Fall 3 Page(s)

Individual Cu-D (mg/L) Results above Chronic WQG				
Aquatic Life Guideline:		Copper Concentration	Chronic WQG	Exceedance
Sample Number		(mg/L)	(mg/L)	
MQL4-21OCT25-M		0.00047	0.0002	TRUE
MQL4-4NOV25-M		0.00056	0.0003	TRUE
MQL9-9APR25-M		0.00052	0.0003	TRUE
MQL9-9APR25-R		0.00050	0.0003	TRUE
MQL9-16APR25-M		0.00048	0.0003	TRUE
MQL9-23APR25-M		0.00053	0.0002	TRUE
MQL9-30APR25-M		0.00053	0.0003	TRUE
MQL9-6MAY25-M		0.00049	0.0003	TRUE
MQL9-7OCT25-M		0.00041	0.0004	TRUE
MQL9-16OCT25-M		0.00041	0.0004	TRUE
MQL9-16OCT25-R		0.00041	0.0004	TRUE
MQL9-21OCT25-M		0.00042	0.0002	TRUE
MQL9-4NOV25-M		0.00053	0.0002	TRUE
MQLB-9APR25-M		0.00051	0.0003	TRUE
MQLB-16APR25-M		0.00047	0.0003	TRUE
MQLB-23APR25-M		0.00054	0.0002	TRUE
MQLB-30APR25-M		0.00052	0.0003	TRUE
MQLB-6MAY25-M		0.00049	0.0002	TRUE
MQLB-6AUG25-M		0.00046	0.0004	TRUE
MQLB-7OCT25-M		0.00049	0.0002	TRUE
MQLB-21OCT25-M		0.00041	0.0003	TRUE
MQLB-4NOV25-M		0.00050	0.0003	TRUE
NNL1-9APR25-M		0.00044	0.0002	TRUE
NNL1-16APR25-M		0.00044	0.0002	TRUE
NNL1-23APR25-M		0.00048	0.0002	TRUE
NNL1-30APR25-M		0.00042	0.0002	TRUE
NNL1-6MAY25-M		0.00044	0.0003	TRUE
NNL1-6MAY25-R		0.00045	0.0003	TRUE
NNL4-9APR25-M		0.00046	0.0002	TRUE
NNL4-16APR25-M		0.00043	0.0002	TRUE
NNL4-23APR25-M		0.00049	0.0002	TRUE
NNL4-30APR25-M		0.00042	0.0002	TRUE
NNL4-6MAY25-M		0.00045	0.0003	TRUE
NNL9-9APR25-M		0.00046	0.0002	TRUE
NNL9-16APR25-M		0.00043	0.0002	TRUE
NNL9-23APR25-M		0.00050	0.0002	TRUE
NNL9-30APR25-M		0.00043	0.0002	TRUE
NNL9-6MAY25-M		0.00043	0.0002	TRUE
NNLB-9APR25-M		0.00046	0.0002	TRUE
NNLB-16APR25-M		0.00042	0.0002	TRUE
NNLB-23APR25-M		0.00049	0.0002	TRUE
NNLB-30APR25-M		0.00043	0.0002	TRUE
NNLB-6MAY25-M		0.00054	0.0002	TRUE
LLO-14JUL25-M		0.00037	0.0003	TRUE
NNO-2APR25-M		0.00044	0.0003	TRUE
NNO-14APR25-M		0.00048	0.0003	TRUE
NNO-31MAR26-M		0.00043	0.0002	TRUE
WA-2APR25-M		0.00056	0.0004	TRUE
WA-7APR25-M		0.00070	0.0003	TRUE
WA-7APR25-R		0.00059	0.0003	TRUE
WA-14APR25-M		0.00104	0.0002	TRUE
WA-22APR25-M		0.00058	0.0005	TRUE
WA-28APR25-M		0.00062	0.0005	TRUE
WA-5MAY25-X		0.00059	0.0004	TRUE
WA-12MAY25-X		0.00055	0.0005	TRUE
WA-26MAY25-X		0.00073	0.0005	TRUE
WA-3JUL25-M		0.00059	0.0005	TRUE
WA-3JUL25-R		0.00052	0.0005	TRUE
WA-7JUL25-M		0.00058	0.0003	TRUE
WA-7JUL25-R		0.00059	0.0003	TRUE
WA-14JUL25-M		0.00055	0.0005	TRUE
WA-28JUL25-M		0.00052	0.0005	TRUE
WA-27AUG25-R		0.00055	0.0003	TRUE
WA-27AUG25-X		0.00052	0.0003	TRUE

Red = calculated GL is below 0.0002 mg/L, considered to be the lowest concentration measured.

Green - Averaged results > Averaged Chronic WQG.

Appendix 1 - Tables

Table 4B Individual Chronic Cu-D (mg/L) Spring, Summer and Fall 3 Page(s)

Individual Cu-D (mg/L) Results above Chronic WQG				
Aquatic Life Guideline:		Copper Concentration	Chronic WQG	
Sample Number		(mg/L)	(mg/L)	Exccedance
WA-20OCT25-M		0.00080	0.0005	TRUE
WA-3NOV25-M		0.00059	0.0005	TRUE
WA-30MAR26-M		0.00065	0.0006	TRUE
WB-2APR25-M		0.00052	0.0005	TRUE
WB-22APR25-R		0.00071	0.0006	TRUE
WB-30APR25-X		0.00054	0.0005	TRUE
WB-5MAY25-M		0.00063	0.0006	TRUE
WB-14OCT25-M		0.00062	0.0004	TRUE
WB-20OCT25-M		0.00043	0.0004	TRUE
WB-3NOV25-M		0.00056	0.0005	TRUE
WB-3NOV25-R		0.00056	0.0005	TRUE
WB-20NOV25-M		0.00058	0.0005	TRUE
WB-25NOV25-M		0.00054	0.0004	TRUE
WB-26NOV25-M		0.00053	0.0002	TRUE
WB-27NOV25-M		0.00056	0.0002	TRUE
WB-8DEC25-M		0.00056	0.0002	TRUE
WB-9DEC25-M		0.00056	0.0005	TRUE
WB-10DEC25-M		0.00044	0.0004	TRUE
WB-11DEC25-M		0.00056	0.0004	TRUE
WB-12DEC25-M		0.00057	0.0002	TRUE
WB-14DEC25-M		0.00064	0.0003	TRUE
WB-15DEC25-M		0.00058	0.0004	TRUE
WB-16DEC25-M		0.00062	0.0004	TRUE
WB-17DEC25-M		0.00063	0.0005	TRUE
WB-19DEC25-M		0.00061	0.0003	TRUE
WB-28DEC25-M		0.00063	0.0004	TRUE
WB-30DEC25-M		0.00062	0.0006	TRUE
WB-31DEC25-M		0.00060	0.0006	TRUE
WB-6JAN26-M		0.00049	0.0004	TRUE
WB-29JAN26-M		0.00062	0.0006	TRUE
WB-9FEB26-M		0.00064	0.0005	TRUE
WB-23FEB26-M		0.00075	0.0006	TRUE
WB-25FEB26-M		0.00063	0.0006	TRUE
WB-2MAR26-M		0.00065	0.0002	TRUE
WB-4MAR26-M		0.00060	0.0003	TRUE
WB-9MAR26-M		0.00054	0.0002	TRUE
WB-11MAR26-M		0.00060	0.0002	TRUE
WB-18MAR26-M		0.00060	0.0003	TRUE
WB-25MAR26-M		0.00061	0.0003	TRUE
WB-30MAR26-M		0.00060	0.0006	TRUE
QRUS-31DEC25-M		0.00069	0.0002	TRUE
QRUS-3JAN26-M		0.00054	0.0002	TRUE
QRUS-6JAN26-M		0.00051	0.0002	TRUE
QRUS-7JAN26-M		0.00051	0.0004	TRUE
QRUS-8JAN26-M		0.00053	0.0004	TRUE
QRUS-19JAN26-M		0.00061	0.0002	TRUE
QRUS-26JAN26-M		0.00069	0.0002	TRUE
QRUS-2FEB26-M		0.00059	0.0002	TRUE
QRUS-5FEB26-M		0.00064	0.0002	TRUE
QRUS-9FEB26-M		0.00063	0.0005	TRUE
QRUS-23FEB26-M		0.00051	0.0003	TRUE
QRUS-25FEB26-M		0.00064	0.0003	TRUE
QRUS-2MAR26-M		0.00057	0.0002	TRUE
QRUS-4MAR26-M		0.00055	0.0003	TRUE
QRUS-9MAR26-M		0.00052	0.0003	TRUE
QRUS-11MAR26-M		0.00057	0.0003	TRUE
QRUS-16MAR26-M		0.00055	0.0003	TRUE
QRUS-18MAR26-M		0.00054	0.0003	TRUE
QRUS-23MAR26-M		0.00058	0.0002	TRUE
QRUS-25MAR26-M		0.00058	0.0005	TRUE
QRDS-11DEC25-M		0.00052	0.0002	TRUE
QRDS-31DEC25-M		0.00057	0.0002	TRUE
QRDS-3JAN26-M		0.00052	0.0002	TRUE
QRDS-6JAN26-M		0.00048	0.0002	TRUE

Red = calculated GL is below 0.0002 mg/L, considered to be the lowest concentration measured.

Green - Averaged results > Averaged Chronic WQG.

Appendix 1 - Tables

Table 4B Individual Chronic Cu-D (mg/L) Spring, Summer and Fall 3 Page(s)

Individual Cu-D (mg/L) Results above Chronic WQG			
Aquatic Life Guideline:		Copper Concentration	Chronic WQG
Sample Number	(mg/L)	(mg/L)	Exceedance
QRDS-7JAN26-M	0.00051	0.0002	TRUE
QRDS-8JAN26-M	0.00058	0.0004	TRUE
QRDS-19JAN26-M	0.00066	0.0002	TRUE
QRDS-26JAN26-M	0.00057	0.0002	TRUE
QRDS-29JAN26-M	0.00057	0.0003	TRUE
QRDS-2FEB26-M	0.00057	0.0002	TRUE
QRDS-5FEB26-M	0.00059	0.0002	TRUE
QRDS-9FEB26-M	0.00059	0.0005	TRUE
QRDS-23FEB26-M	0.00050	0.0004	TRUE
QRDS-25FEB26-M	0.00057	0.0005	TRUE
QRDS-2MAR26-M	0.00058	0.0003	TRUE
QRDS-9MAR26-M	0.00049	0.0003	TRUE
QRDS-11MAR26-M	0.00051	0.0004	TRUE
QRDS-16MAR26-M	0.00066	0.0003	TRUE
QRDS-18MAR26-M	0.00054	0.0003	TRUE
QRDS-23MAR26-M	0.00056	0.0002	TRUE
QRDS-25MAR26-M	0.00057	0.0005	TRUE
QRDSA-10DEC25-M	0.00049	0.0002	TRUE
QRDSA-11DEC25-M	0.00054	0.0002	TRUE
QRDSA-31DEC25-M	0.00057	0.0002	TRUE
QRDSA-3JAN26-M	0.00053	0.0002	TRUE
QRDSA-6JAN26-M	0.00051	0.0002	TRUE
QRDSA-7JAN26-M	0.00049	0.0002	TRUE
QRDSA-8JAN26-M	0.00053	0.0004	TRUE
QRDSA-19JAN26-M	0.00060	0.0002	TRUE
QRDSA-26JAN26-M	0.00056	0.0002	TRUE
QRDSA-29JAN26-M	0.00073	0.0002	TRUE
QRDSA-2FEB26-M	0.00057	0.0002	TRUE
QRDSA-5FEB26-M	0.00061	0.0002	TRUE
QRDSA-9FEB26-M	0.00060	0.0005	TRUE
QRDSA-23FEB26-M	0.00050	0.0002	TRUE
QRDSA-25FEB26-M	0.00072	0.0004	TRUE
QRDSA-2MAR26-M	0.00063	0.0003	TRUE

Red = calculated GL is below 0.0002 mg/L, considered to be the lowest concentration measured.

Green - Averaged results > Averaged Chronic WQG.

Appendix 1 - Tables

Table 4C Averaged Total Iron Compared to Chronic Guideline 10 Page(s)

Averaged Total Iron Compared to Chronic Guideline					
Station Location	season	Total Fe Concentration (mg/L)	pH	DOC (mg/L)	FWQG (mg/L)
No Name Lake Outlet	Spring	0.054	7.26	3.2	0.36
No Name Lake Outlet	Summer	0.0831	7.48	3.1	0.36
No Name Lake Outlet	Fall	0.061	7.62	4.2	0.44
Long Lake Outlet	Spring	0.057	7.5	3.2	0.37
Long Lake Outlet	Summer	0.0606	7.27	2.8	0.32
Long Lake Outlet	Fall	0.0522	7.57	3.8	0.4
Quinsam River at Argonaut Road	Spring	0.0208	7.16	2	0.27
Quinsam River at Argonaut Road	Summer	0.0238	7.56	1.9	0.23
Quinsam River at Argonaut Road	Fall	0.0188	7.64	2.4	0.28
Mid Quinsam Lake Outlet	Spring	0.028	7.57	2.2	0.28
Mid Quinsam Lake Outlet	Summer	0.0394	7.97	2.3	0.29
Mid Quinsam Lake Outlet	Fall	0.0395	7.35	2.4	0.28
Quinsam River Downstream 1	Spring	0.079	7.52	2.3	0.28
Quinsam River Downstream 1	Summer	0.0764	7.7	2	0.29
Quinsam River Downstream 1	Fall	0.0385	7.7	2.6	0.33
Iron River & Quinsam River	Spring	0.083	7.74	2.9	0.33
Iron River & Quinsam River	Summer	0.11	7.61	2	0.28
Iron River & Quinsam River	Fall	0.0812	7.5	3.4	0.37
Long Lake Middle 1 M	Spring	0.048	6.6	3.1	0.33
Long Lake Middle 1 M	Summer	0.1001	7.56	3.1	0.37
Long Lake Middle 1 M	Fall	0.0559	6.92	4	0.42
Long Lake Middle 4 M	Spring	0.057	6.64	3.1	0.33
Long Lake Middle 4 M	Summer	0.0328	7.62	3.3	0.37
Long Lake Middle 4 M	Fall	0.0561	6.99	4	0.42
Long Lake Middle 9 M	Spring	0.06	6.59	3.2	0.33
Long Lake Middle 9 M	Summer	0.0264	7.31	3.1	0.36
Long Lake Middle 9 M	Fall	0.0557	6.87	3.6	0.38
Long Lake Middle 1M From B	Spring	0.063	6.55	3.2	0.33
Long Lake Middle 1M From B	Summer	0.0699	7.03	3.2	0.35
Long Lake Middle 1M From B	Fall	0.139	6.57	2.6	0.29
LLE Zone of Dilution 2	Spring	0.047		3.1	0.3
LLE Zone of Dilution 2	Summer	0.0346	7.56	3.3	0.37
LLE Zone of Dilution 2	Fall	0.0523	6.92	3.9	0.39
Middle Quinsam Lake 1M	Spring	0.025	6.89	2.1	0.26
Middle Quinsam Lake 1M	Summer	0.0326	7.87	2.2	0.29
Middle Quinsam Lake 1M	Fall	0.038	7.15	2.3	0.27
Middle Quinsam Lake 4M	Spring	0.025	7.01	2.1	0.26
Middle Quinsam Lake 4M	Summer	0.0328	7.9	2.2	0.29
Middle Quinsam Lake 4M	Fall	0.0375	7.16	2.3	0.27
Middle Quinsam Lake 9M	Spring	0.02	7.05	2.2	0.26
Middle Quinsam Lake 9M	Summer	0.0202	8.29	2.2	0.29
Middle Quinsam Lake 9M	Fall	0.0383	7.15	2.3	0.27
Middle Quinsam Lake 1MB	Spring	0.031	6.94	2.2	0.26
Middle Quinsam Lake 1MB	Summer	0.0313	7.57	2.1	0.28
Middle Quinsam Lake 1MB	Fall	0.1394	7.07	2.4	0.26
Lower Quinsam Lake 1M	Spring	0.079	6.84	2.9	0.3
Lower Quinsam Lake 1M	Summer	0.0493	7.69	2.3	0.28
Lower Quinsam Lake 1M	Fall	0.128	7.09	3.7	0.39
Lower Quinsam Lake 4M	Spring	0.084	6.99	3	0.35
Lower Quinsam Lake 4M	Summer	0.0556	7.74	2.2	0.29
Lower Quinsam Lake 4M	Fall	0.133	7.12	3.9	0.4
Lower Quinsam Lake 9M	Spring	0.081	6.93	3	0.35
Lower Quinsam Lake 9M	Summer	0.0666	7.39	2.7	0.32
Lower Quinsam Lake 9M	Fall	0.146	7.09	3.8	0.39
Lower Quinsam Lake 1MB	Spring	0.11	6.81	2.9	0.3
Lower Quinsam Lake 1MB	Summer	0.3565	6.84	2.9	0.3
Lower Quinsam Lake 1MB	Fall	1.37	6.75	4	0.41
No Name Lake 1M	Spring	0.055	6.57	3.1	0.33
No Name Lake 4M	Summer	0.054	6.53	3.2	0.33
No Name Lake 9M	Fall	0.067	6.3	3.1	0.32
No Name Lake Bottom	Spring	0.067	6.24	3.1	0.3

Table 5A Detection Limits Higher than Guidelines 4 Page(s)

Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC Approved WQG - AVE	IRQR-7APR25-M	DHQ979	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	IRQR-7APR25-M	DHQ979	C529502	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	75QR-7APR25-M	DHQ980	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-7APR25-M	DHQ981	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-7APR25-M	DHQ981	C529502	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WA-7APR25-R	DHQ982	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-7APR25-R	DHQ982	C529502	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WB-7APR25-M	DHQ983	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WB-7APR25-M	DHQ983	C529502	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLO-7APR25-M	DHQ984	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNO-7APR25-M	DHQ985	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS1-7APR25-M	DHQ986	C529502	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS1-7APR25-M	DHQ986	C529502	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL1-9APR25-M	DHW543	C530801	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL1-9APR25-M	DHW543	C530801	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL4-9APR25-M	DHW544	C530801	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL4-9APR25-M	DHW544	C530801	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL9-9APR25-M	DHW546	C530801	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL9-9APR25-M	DHW546	C530801	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQLB-9APR25-M	DHW547	C530801	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQLB-9APR25-M	DHW547	C530801	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL9-9APR25-R	DHW548	C530801	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL9-9APR25-R	DHW548	C530801	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNL1-9APR25-M	DHW644	C530812	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL1-9APR25-M	DHW644	C530812	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNL4-9APR25-M	DHW645	C530812	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL4-9APR25-M	DHW645	C530812	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNL9-9APR25-M	DHW646	C530812	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL9-9APR25-M	DHW646	C530812	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNLB-9APR25-M	DHW647	C530812	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNLB-9APR25-M	DHW647	C530812	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLM1-9APR25-M	DHW651	C530814	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLM1-9APR25-M	DHW651	C530814	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLM4-9APR25-M	DHW652	C530814	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLM4-9APR25-M	DHW652	C530814	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLM9-9APR25-M	DHW653	C530814	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLM9-9APR25-M	DHW653	C530814	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLMB-9APR25-M	DHW654	C530814	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLMB-9APR25-M	DHW654	C530814	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL1-10APR25-M	DHX210	C530949	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL4-10APR25-M	DHX211	C530949	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL4-10APR25-M	DHX211	C530949	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL9-10APR25-M	DHX212	C530949	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL9-10APR25-M	DHX212	C530949	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQLB-10APR25-M	DHX213	C530949	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQLB-10APR25-M	DHX213	C530949	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL1-15APR25-M	DIC961	C532183	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL1-15APR25-M	DIC961	C532183	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL4-15APR25-M	DIC962	C532183	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL4-15APR25-M	DIC962	C532183	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL9-15APR25-M	DIC963	C532183	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL9-15APR25-M	DIC963	C532183	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQLB-15APR25-M	DIC964	C532183	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL1-16APR25-M	DIE661	C532589	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL1-16APR25-M	DIE661	C532589	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL4-16APR25-M	DIE662	C532589	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL4-16APR25-M	DIE662	C532589	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQL9-16APR25-M	DIE663	C532589	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQL9-16APR25-M	DIE663	C532589	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	MQLB-16APR25-M	DIE664	C532589	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	MQLB-16APR25-M	DIE664	C532589	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNL1-16APR25-M	DIE669	C532591	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL4-16APR25-M	DIE670	C532591	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL9-16APR25-M	DIE671	C532591	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNL9-16APR25-M	DIE671	C532591	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNLB-16APR25-M	DIE672	C532591	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNLB-16APR25-M	DIE672	C532591	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL1-29APR25-M	DIU262	C536171	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL1-29APR25-M	DIU262	C536171	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL1-29APR25-R	DIU263	C536171	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL1-29APR25-R	DIU263	C536171	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL4-29APR25-M	DIU264	C536171	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL4-29APR25-M	DIU264	C536171	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL9-29APR25-M	DIU265	C536171	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL9-29APR25-M	DIU265	C536171	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQLB-29APR25-M	DIU266	C536171	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQLB-29APR25-M	DIU266	C536171	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L

Table 5A Detection Limits Higher than Guidelines 4 Page(s)

Detection Limits Higher than Guidelines								
Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC Approved WQG - AVE	IRQR-29APR25-M	DIU374	C536198	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	75QR-29APR25-M	DIU375	C536198	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-28APR25-M	DIV121	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-28APR25-M	DIV121	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WB-28APR25-M	DIV122	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WB-28APR25-M	DIV122	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLO-28APR25-M	DIV123	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLO-28APR25-M	DIV123	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNO-28APR25-M	DIV124	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNO-28APR25-M	DIV124	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	NNO-28APR25-R	DIV125	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	NNO-28APR25-R	DIV125	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS1-28APR25-M	DIV126	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS1-28APR25-M	DIV126	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS1-29APR25-M	DIV127	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS1-29APR25-M	DIV127	C536302	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WB-29APR25-M	DIV128	C536302	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRUS-28APR25-M	DIV170	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-28APR25-M	DIV171	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-28APR25-M	DIV171	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDSA-28APR25-M	DIV172	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDSB-28APR25-M	DIV173	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDSB-28APR25-M	DIV173	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRUS-29APR25-M	DIV174	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRUS-29APR25-M	DIV174	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-29APR25-M	DIV175	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-29APR25-M	DIV175	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDSA-29APR25-M	DIV176	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDSA-29APR25-M	DIV176	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDSB-29APR25-M	DIV177	C536307	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDSB-29APR25-M	DIV177	C536307	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	SQL1-22JUL25-M	DPM512	C564523	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	SQL1-22JUL25-M	DPM512	C564523	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	SQL4-22JUL25-M	DPM513	C564523	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	SQL4-22JUL25-M	DPM513	C564523	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	SQL9-22JUL25-M	DPM514	C564523	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	SQL9-22JUL25-M	DPM514	C564523	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	SQLB-22JUL25-M	DPM515	C564523	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	SQLB-22JUL25-M	DPM515	C564523	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	

Appendix 1 - Tables

Table 5A Detection Limits Higher than Guidelines 4 Page(s)

Detection Limits Higher than Guidelines

Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC Approved WQG - AVE	LLM9-29JUL25-M	DPY033	C566297	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLM9-29JUL25-M	DPY033	C566297	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LLMB-29JUL25-M	DPY034	C566297	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LLMB-29JUL25-M	DPY034	C566297	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL1-30JUL25-M	DPZ891	C566620	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL1-30JUL25-M	DPZ891	C566620	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL4-30JUL25-M	DPZ892	C566620	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL4-30JUL25-M	DPZ892	C566620	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQL9-30JUL25-M	DPZ893	C566620	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQL9-30JUL25-M	DPZ893	C566620	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	LQLB-30JUL25-M	DPZ894	C566620	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	LQLB-30JUL25-M	DPZ894	C566620	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WA-27AUG25-M	DRW954	C574320	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-27AUG25-M	DRW954	C574320	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WA-27AUG25-M	DRW954	C574320	2-Methylnaphthalene	0	<0.00010	0.0001	mg/L
BC Approved WQG - AVE	WA-27AUG25-M	DRW954	C574320	Chrysene	0	<0.000020	0.00002	mg/L
BC Approved WQG - AVE	WA-27AUG25-R	DRW955	C574320	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WA-27AUG25-R	DRW955	C574320	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WA-27AUG25-R	DRW955	C574320	2-Methylnaphthalene	0	<0.00010	0.0001	mg/L
BC Approved WQG - AVE	WA-27AUG25-R	DRW955	C574320	Chrysene	0	<0.000020	0.00002	mg/L
BC Approved WQG - AVE	75QR-8SEP25-X	DSL613	C576446	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	75QR-8SEP25-X	DSL613	C576446	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	75QR-8SEP25-X	DSL613	C576446	2-Methylnaphthalene	0	<0.00010	0.0001	mg/L
BC Approved WQG - AVE	75QR-8SEP25-X	DSL613	C576446	Chrysene	0	<0.000020	0.00002	mg/L
BC Approved WQG - AVE	QRDS1-8SEP25-X	DSL614	C576446	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS1-8SEP25-X	DSL614	C576446	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-26NOV25-M	DXR862	C597033	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-26NOV25-M	DXR862	C597033	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-27NOV25-M	DXU317	C597430	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-27NOV25-M	DXU317	C597430	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-28NOV25-M	DXW326	C597673	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-28NOV25-M	DXW326	C597673	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-29NOV25-M	DXY689	C597939	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-29NOV25-M	DXY689	C597939	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-1DEC25-M	DXY693	C597939	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-1DEC25-M	DXY693	C597939	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	WB-2DEC25-M	DYB054	C598264	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	WB-2DEC25-M	DYB054	C598264	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - AVE	QRDS-4DEC25-M	DYF454	C599039	Dissolved Nickel (Ni)	0.0007	<0.0010	0.001	mg/L
BC Approved WQG - AVE	QRDS-4DEC25-M	DYF454	C599039	Dissolved Zinc (Zn)	0.00484	<0.0050	0.005	mg/L
BC Approved WQG - MAX	WA-27AUG25-M	DRW954	C574320	Acenaphthene	0	<0.000050	0.00005	mg/L
BC Approved WQG - MAX	WA-27AUG25-M	DRW954	C574320	Benzo(a)pyrene	0	<0.0000050	0.000005	mg/L
BC Approved WQG - MAX	WA-27AUG25-R	DRW955	C574320	Acenaphthene	0	<0.000050	0.00005	mg/L
BC Approved WQG - MAX	WA-27AUG25-R	DRW955	C574320	Benzo(a)pyrene	0	<0.0000050	0.000005	mg/L
BC Approved WQG - MAX	75QR-8SEP25-X	DSL613	C576446	Acenaphthene	0	<0.000050	0.00005	mg/L
BC Approved WQG - MAX	75QR-8SEP25-X	DSL613	C576446	Benzo(a)pyrene	0	<0.0000050	0.000005	mg/L
BC Approved WQG - MAX	QRDSA-28DEC25-M	DZB527	C600037	Dissolved Phosphorus (P)	0	<2.0	2	ug/L
BC Approved WQG - MAX	QRDSB-28DEC25-M	DZB528	C600037	Dissolved Phosphorus (P)	0	<2.0	2	ug/L

Appendix 1 - Tables

Table 5B Ex-Situ Groundwater Results Above CSR-AW 1 Page(s)

Ex-Situ Groundwater Results Above CSR-AW								
Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC CSR Aquatic Life - LOW	QU11055-8APR25-M	DHW549	C530803	Sulphide (as H2S)	0.02	0.25	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-8APR25-M	DHW552	C530803	Sulphide (as H2S)	0.02	38	0.38	mg/L
BC CSR Aquatic Life - LOW	QU0813A-28APR25-M	DIU468	C536217	Sulphide (as H2S)	0.02	0.22	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-13MAY25-M	DLA217	C544195	Sulphide (as H2S)	0.02	0.13	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-13MAY25-M	DLA218	C544195	Sulphide (as H2S)	0.02	31	0.19	mg/L
BC CSR Aquatic Life - LOW	QU1105D-13MAY25-M	DLA218	C544195	Dissolved Selenium (Se)	0.02	0.0227	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-14MAY25-M	DLB933	C544539	Sulphide (as H2S)	0.02	0.14	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-14MAY25-M	DLB934	C544539	Sulphide (as H2S)	0.02	0.064	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1011D-21MAY25-M	DLM209	C546537	Sulphide (as H2S)	0.02	0.16	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-16JUN25-M	DNK769	C555570	Sulphide (as H2S)	0.02	0.23	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-16JUN25-M	DNK770	C555570	Sulphide (as H2S)	0.02	17	0.19	mg/L
BC CSR Aquatic Life - LOW	QU1105D-16JUN25-M	DNK770	C555570	Dissolved Selenium (Se)	0.02	0.0284	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0813A-17JUN25-M	DNK773	C555570	Sulphide (as H2S)	0.02	0.27	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-17JUN25-R	DNK775	C555570	Sulphide (as H2S)	0.02	0.26	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813B-15JUL25-M	DPE656	C563087	Sulphide (as H2S)	0.02	0.022	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813B-15JUL25-R	DPE657	C563087	Sulphide (as H2S)	0.02	0.022	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-23JUL25-M	DPO979	C564991	Sulphide (as H2S)	0.02	0.22	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-24-JUL25-M	DPQ115	C565217	Sulphide (as H2S)	0.02	0.064	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-13AUG25-M	DQT820	C570052	Sulphide (as H2S)	0.02	0.16	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-19AUG25-M	DRE670	C571518	Sulphide (as H2S)	0.02	0.084	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-19AUG25-R	DRE671	C571518	Sulphide (as H2S)	0.02	0.084	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-19AUG25-M	DRE672	C571518	Sulphide (as H2S)	0.02	29	0.19	mg/L
BC CSR Aquatic Life - LOW	QU1105D-11SEP25-M	DSU662	C577801	Sulphide (as H2S)	0.02	32	0.19	mg/L
BC CSR Aquatic Life - LOW	QU11055-11SEP25-M	DSU663	C577801	Sulphide (as H2S)	0.02	0.17	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-11SEP25-R	DSU664	C577801	Sulphide (as H2S)	0.02	0.16	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-23SEP25-M	DTQ600	C581194	Sulphide (as H2S)	0.02	0.19	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-9OCT25-M	DUT200	C585448	Sulphide (as H2S)	0.02	45	1.9	mg/L
BC CSR Aquatic Life - LOW	QU1105D-9OCT25-M	DUT200	C585448	Dissolved Selenium (Se)	0.02	0.0374	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU11055-9OCT25-M	DUT201	C585448	Sulphide (as H2S)	0.02	0.1	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-9OCT25-R	DUT202	C585448	Sulphide (as H2S)	0.02	49	1.9	mg/L
BC CSR Aquatic Life - LOW	QU1105D-9OCT25-R	DUT202	C585448	Dissolved Selenium (Se)	0.02	0.0302	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0813A-5NOV25-M	DWL857	C592338	Sulphide (as H2S)	0.02	0.17	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-5NOV25-R	DWL858	C592338	Sulphide (as H2S)	0.02	0.17	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-26NOV25-M	DXR848	C597031	Sulphide (as H2S)	0.02	0.2	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-26NOV25-M	DXR849	C597031	Sulphide (as H2S)	0.02	44	0.38	mg/L
BC CSR Aquatic Life - LOW	QU1319A-4DEC25-M	DYF445	C599036	Sulphide (as H2S)	0.02	0.064	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1319A-4DEC25-R	DYF446	C599036	Sulphide (as H2S)	0.02	0.066	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-15JAN26-M	DZM320	C602635	Sulphide (as H2S)	0.02	38	0.38	mg/L
BC CSR Aquatic Life - LOW	QU1105D-15JAN26-R	DZM322	C602635	Sulphide (as H2S)	0.02	0.24	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1316-3FEB26-M	EAI371	C606423	Sulphide (as H2S)	0.02	0.14	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-12FEB26-M	EAU371	C608512	Sulphide (as H2S)	0.02	0.058	0.002	mg/L
BC CSR Aquatic Life - LOW	QU11055-12FEB26-R	EAU372	C608512	Sulphide (as H2S)	0.02	0.055	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1105D-12FEB26-M	EAU373	C608512	Sulphide (as H2S)	0.02	25	0.19	mg/L

Appendix 1 - Tables

Table 5B Ex-Situ Groundwater Results Above CSR-AW 1 Page(s)

Ex-Situ Groundwater Results Above CSR-AW								
Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC CSR Aquatic Life - LOW	QU1105D-12FEB26-M	EAW373	C608512	Dissolved Selenium (Se)	0.02	0.0372	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU1319A-24MAR26-M	ECPO34	C615899	Sulphide (as H2S)	0.02	0.072	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1319A-24MAR26-R	ECPO35	C615899	Sulphide (as H2S)	0.02	0.075	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-24MAR26-M	ECPO36	C615899	Sulphide (as H2S)	0.02	0.25	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1316-17MAR26-M	ECPO42	C615904	Sulphide (as H2S)	0.02	0.16	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1103-4JUN25-M	DMK477-02	C551315	Flouride (F)	2.00	2.4	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-8JUL25-M	DOS050-02	C561287	Flouride (F)	2.00	2.3	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-7AUG25-M	DQO023-04	C568969	Flouride (F)	2.00	2.4	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-25SEP25-M	DSA694-04	C574960	Flouride (F)	2.00	2.5	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-14OCT25-M	DUZ729-04	C586378	Flouride (F)	2.00	2.8	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-25NOV25-M	DXQ845-02	C596801	Flouride (F)	2.00	2.6	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-13JAN26-M	DZJ560-02	C602051	Flouride (F)	2.00	2.3	0.05	mg/L
BC CSR Aquatic Life - LOW	QU1103-18FEB26-M	EBC853-02	C609692	Flouride (F)	2.00	2.3	0.05	mg/L
BC CSR Aquatic Life - LOW	MW005-11JUN25-M	DMY621-03	C553573	Dissolved Sulphate (SO ₄)	1280	1600	2	mg/L
BC CSR Aquatic Life - LOW	MW005-25AUG25-M	DRP215-04	C573128	Dissolved Sulphate (SO ₄)	1280	1700	2	mg/L
BC CSR Aquatic Life - LOW	MW005-19FEB26-M	EBC855-02	C609692	Dissolved Sulphate (SO ₄)	1280	1500	2	mg/L
BC CSR Aquatic Life - LOW	QU1101-18MAR26-M	ECK426-02	C615095	Dissolved Sulphate (SO ₄)	1280	1300	2	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-14MAY25-M	DLB933-02	C544539	Dissolved Arsenic (As)	0.05	0.203	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-13AUG25-M	DQT820-04	C570052	Dissolved Arsenic (As)	0.05	0.216	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-13JAN26-M	DZJ562-02	C602051	Dissolved Arsenic (As)	0.05	0.214	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-14MAY25-M	DLB934-02	C544539	Dissolved Arsenic (As)	0.05	0.178	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-24JUL25-M	DPQ115-02	C565217	Dissolved Arsenic (As)	0.05	0.182	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-13JAN26-M	DZJ561-02	C602051	Dissolved Arsenic (As)	0.05	0.175	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1011D-21MAY25-M	DLM209-03	C546537	Dissolved Arsenic (As)	0.05	0.0925	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-8APR25-M	DHW549-04	C530803	Dissolved Arsenic (As)	0.05	0.1	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-13MAY25-M	DLA217-02	C544195	Dissolved Arsenic (As)	0.05	0.0959	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-16JUN25-M	DNK769-02	C555570	Dissolved Arsenic (As)	0.05	0.103	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-30JUL25-M	DPZ885-02	C566618	Dissolved Arsenic (As)	0.05	0.134	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-30JUL25-R	DPZ886-02	C566618	Dissolved Arsenic (As)	0.05	0.138	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-19AUG25-M	DRE670-04	C571518	Dissolved Arsenic (As)	0.05	0.101	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-19AUG25-R	DRE671-04	C571518	Dissolved Arsenic (As)	0.05	0.101	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-11SEP25-M	DSU663-04	C577801	Dissolved Arsenic (As)	0.05	0.0933	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-11SEP25-R	DSU664-04	C577801	Dissolved Arsenic (As)	0.05	0.0967	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-9OCT25-M	DUT201-03	C585448	Dissolved Arsenic (As)	0.05	0.0848	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-26NOV25-M	DXR848-02	C597031	Dissolved Arsenic (As)	0.05	0.102	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-12FEB26-M	EAW371-02	C608512	Dissolved Arsenic (As)	0.05	0.098	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-12FEB26-R	EAW372-02	C608512	Dissolved Arsenic (As)	0.05	0.099	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105D-15JAN26-M	DZM320-03	C602635	Dissolved Arsenic (As)	0.05	0.112	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105D-15JAN26-R	DZM322-02	C602635	Dissolved Arsenic (As)	0.05	0.107	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-28APR25-M	DIU468-03	C536217	Dissolved Arsenic (As)	0.05	0.395	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-17JUN25-M	DNK773-02	C555570	Dissolved Arsenic (As)	0.05	0.397	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-17JUN25-R	DNK775-02	C555570	Dissolved Arsenic (As)	0.05	0.407	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-23JUL25-M	DPO979-02	C564991	Dissolved Arsenic (As)	0.05	0.448	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-23SEP25-M	DTQ600-02	C581194	Dissolved Arsenic (As)	0.05	0.493	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-5NOV25-M	DWL857-02	C592338	Dissolved Arsenic (As)	0.05	0.49	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-5NOV25-R	DWL858-02	C592338	Dissolved Arsenic (As)	0.05	0.493	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-13JAN26-M	DZJ563-02	C602051	Dissolved Arsenic (As)	0.05	0.506	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-13JAN26-R	DZJ566-02	C602051	Dissolved Arsenic (As)	0.05	0.495	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-24MAR26-M	ECPO36-02	C615899	Dissolved Arsenic (As)	0.05	0.464	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-12MAY25-M	DKY512-04	C543840	Dissolved Arsenic (As)	0.05	0.499	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-17JUN25-M	DNK774-02	C555570	Dissolved Arsenic (As)	0.05	0.512	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-15JUL25-M	DPE656-02	C563087	Dissolved Arsenic (As)	0.05	0.538	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-15JUL25-R	DPE657-02	C563087	Dissolved Arsenic (As)	0.05	0.538	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-23SEP25-M	DTQ601-02	C581194	Dissolved Arsenic (As)	0.05	0.588	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-23SEP25-R	DTQ602-02	C581194	Dissolved Arsenic (As)	0.05	0.581	0.0001	mg/L

Appendix 1 - Tables

Table 5B Ex-Situ Groundwater Results Above CSR-AW 1 Page(s)

Ex-Situ Groundwater Results Above CSR-AW								
Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC CSR Aquatic Life - LOW	QU0813B-5NOV25-M	DWL859-02	C592338	Dissolved Arsenic (As)	0.05	0.557	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-13JAN26-M	DZJ564-02	C602051	Dissolved Arsenic (As)	0.05	0.585	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1136D-31MAR26-M	EDB087-02	C617933	Dissolved Arsenic (As)	0.05	0.753	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1136D-31MAR26-R	EDB088-02	C617933	Dissolved Arsenic (As)	0.05	0.746	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-12AUG25-M	DQR613-04	C569614	Dissolved Arsenic (As)	0.05	0.0833	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-12AUG25-R	DQR614-04	C569614	Dissolved Arsenic (As)	0.05	0.086	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-14JAN26-M	DZM324-02	C602635	Dissolved Arsenic (As)	0.05	0.0851	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-12AUG25-M	DQR615-04	C569614	Dissolved Arsenic (As)	0.05	0.107	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-14JAN26-M	DZM323-02	C602635	Dissolved Arsenic (As)	0.05	0.0943	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1101-18MAR26-M	ECK426-02	C615095	Dissolved Arsenic (As)	0.05	0.134	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-28OCT25-M	DVZ344-01	C590507	Dissolved Arsenic (As)	0.05	0.0509	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-28MAY25-M	DLX419-02	C548778	Dissolved Arsenic (As)	0.05	0.0965	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-13AUG25-M	DQT821-04	C570052	Dissolved Arsenic (As)	0.05	0.117	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-13AUG25-R	DQT822-04	C570052	Dissolved Arsenic (As)	0.05	0.117	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-6NOV25-M	DWO104-02	C592778	Dissolved Arsenic (As)	0.05	0.12	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M7SA5-5MAY25-M	DJD588-03	C538018	Dissolved Arsenic (As)	0.05	0.0581	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-3APR25-M	DHQ956-03	C529494	Dissolved Arsenic (As)	0.05	0.104	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-5MAY25-M	DJD589-03	C538018	Dissolved Arsenic (As)	0.05	0.137	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-3JUN25-M	DMH960-03	C550789	Dissolved Arsenic (As)	0.05	0.137	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1316-3FEB26-M	EAI371-02	C606423	Dissolved Arsenic (As)	0.05	0.316	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1316-17MAR26-M	ECP042-02	C615904	Dissolved Arsenic (As)	0.05	0.314	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-4JUN25-M	DMK477-02	C551315	Dissolved Arsenic (As)	0.05	0.335	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-8JUL25-M	DOS050-02	C561287	Dissolved Arsenic (As)	0.05	0.315	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-7AUG25-M	DQO023-04	C568969	Dissolved Arsenic (As)	0.05	0.325	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-25SEP25-M	DSA694-04	C574960	Dissolved Arsenic (As)	0.05	0.326	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-14OCT25-M	DUZ729-04	C586378	Dissolved Arsenic (As)	0.05	0.329	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-25NOV25-M	DXQ845-02	C596801	Dissolved Arsenic (As)	0.05	0.328	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-13JAN26-M	DZJ560-02	C602051	Dissolved Arsenic (As)	0.05	0.314	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1103-18FEB26-M	EBC853-02	C609692	Dissolved Arsenic (As)	0.05	0.327	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-12MAY25-M	DKY511-04	C543840	Dissolved Arsenic (As)	0.05	0.233	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-17JUN25-M	DNK772-02	C555570	Dissolved Arsenic (As)	0.05	0.22	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-24JUL25-M	DPQ114-02	C565217	Dissolved Arsenic (As)	0.05	0.112	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-19NOV25-M	DXF312-02	C595398	Dissolved Arsenic (As)	0.05	0.148	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-8JAN26-M	DZG454-03	C601348	Dissolved Arsenic (As)	0.05	0.207	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1013S-17FEB26-M	EAY272-02	C608859	Dissolved Arsenic (As)	0.05	0.255	0.0001	mg/L

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409	Stn Std	PL-N															
Site Description Settling Pond # 4 - Authorized Discharge Location for North Mine Water																		
Site Name	WD	Std Val																
Date		Max	Min	2025-04-01	2025-04-07	2025-04-14	2025-04-22	2025-04-28	2025-05-05	2025-05-05	2025-05-12	2025-05-20	2025-05-26	2025-06-02	2025-06-05	2025-06-09	2025-06-11	
Wlevel	m			0.12	0.123	0.103	-0.017	0.053	0.004	0.004	-0.025	0.013	0.02	0.004	0.087	0.094	0.101	
pH-F	pH Units	8.5	6	7.6	7.64	7.1	7.8	7.78	7.94	7.94	7.76	8	7.91	7.77	7.62	7.31	7.27	
Cond-F	uS/cm			1724	1758	1759	1808	1872	1646	1646	1691	1817	1627	1649	1679.6	2366	1715	
SO4-D	mg/L			470	500	430	500	570	500	500	520	490	520	540	600	760	800	
TSS	mg/L	25	0	<1.0	<1.0	<1.0	2.0	<1.0	2.4	1.2	2.8	2	2.0	2.0	1.2	4.8	1.2	
Alk-T	mg/L			400					330	340			290	310	260	460	470	
Acidity83	mg/L			1.6					1.1	<1.0			<1.0	<1.0	<1.0	4.8	12.9	
Al-T	mg/L								0.0085	0.0042			<0.0030		<0.0030	0.0140		
As-T	mg/L								0.00112	0.00113			0.0013		0.00122	0.00089		
Ba-T	mg/L								0.0175	0.0191			0.0168		0.0202	0.0210		
B-T	mg/L								0.646	0.686			0.798		0.705	0.90		
Cd-T	mg/L								<0.000010	<0.000010			<0.000010		<0.000010	0.000022		
Ca-T	mg/L								88.1	90.4			86.9		111	178		
Cr-T	mg/L								<0.0010	<0.0010			<0.0010		<0.0010	<0.0020		
Co-T	mg/L								<0.00020	<0.00020			<0.00020		<0.00020	0.00118		
Cu-T	mg/L								<0.00050	<0.00050			<0.00050		<0.00050	<0.0010		
Hard-T	mg/L								279	289			282		347	535		
Fe-T	mg/L								0.117	0.094			0.058		0.096	0.086		
Pb-T	mg/L								<0.00020	<0.00020			<0.00020		<0.00020	<0.00040		
Mg-T	mg/L								14.5	15.4			15.9		16.8	21.7		
Mn-T	mg/L								0.0319	0.0305			0.0231		0.0421	0.800		
Mo-T	mg/L								<0.0010	<0.0010			<0.0010		<0.0010	<0.0020		
Ni-T	mg/L								<0.0010	<0.0010			<0.0010		<0.0010	0.0028		
K-T	mg/L								2.78	2.98			3.29		3.06	5.50		
S-T	mg/L								178	192			202		199	285		
Se-T	mg/L								<0.00010	<0.00010			<0.00010		<0.00010	0.00076		
Si-T	mg/L								1.26	1.33			1.81		2.54	3.26		
Ag-T	mg/L								<0.000020	<0.000020			<0.000020		<0.000020	<0.000040		
Na-T	mg/L								254	262			281		228	340		
Sr-T	mg/L								1.12	1.16			1.06		1.29	1.74		
Zn-T	mg/L								<0.0050	<0.0050			<0.0050		<0.0050	0.015		
Al-D	mg/L	0.5	0	0.00935					0.00141	0.00188			<0.0030	<0.0030	0.0040	<0.0060		
As-D	mg/L			0.00113					0.00109	0.00107			0.00129	0.00137	0.00130	0.00152		
Ba-D	mg/L			0.0231					0.0188	0.0184			0.0161	0.0195	0.0208	0.0280		
B-D	mg/L			0.724					0.762	0.741			0.802	0.687	0.805	1.13		
Be-D	mg/L			<0.000010					0.000010	<0.000010			<0.00010	<0.00010	<0.00010			
Cd-D	mg/L			<0.000005					<0.000005	<0.000005			<0.000010	<0.000010	<0.000010	<0.000020		
Ca-D	mg/L			135					97.9	92.9			88.2	107	121	205		
Cr-D	mg/L			<0.00010					<0.00010	<0.00010			<0.0010	<0.0010	<0.0010	<0.0020		
Co-D	mg/L			0.000233					0.0000310	0.0000310			<0.00020	<0.00020	<0.00020	0.00074		
Cu-D	mg/L	0.02	0	0.000281					0.000370	0.000385			0.00041	0.00036	0.00043	<0.00040		
Hard-D	mg/L			398					303	289			284	337	379	612		
Fe-D	mg/L	0.3	0	0.0174					0.0205	0.0308			0.0344	0.0526	0.0562	0.017		
Pb-D	mg/L	0.05	0	0.0000053					<0.000005	<0.000005			<0.00020	<0.00020	<0.00020	<0.00040		
Mg-D	mg/L			14.8					14.2	13.8			15.5	16.8	18.8	24.1		
Mn-D	mg/L			0.0753					0.0120	0.0123			0.0080	0.0215	0.0334	0.635		
Mo-D	mg/L			0.000220					0.000350	0.000304			<0.0010	<0.0010	<0.0010	<0.0020		
Ni-D	mg/L			0.00119					0.000315	0.000284			<0.0010	<0.0010	<0.0010	0.0025		
K-D	mg/L			3.18					3.09	2.99			3.23	3.23	3.42	6.20		
S-D	mg/L			191					190	182			202	208	234	315		
Se-D	mg/L			<0.000040					<0.000040	<0.000040			<0.00010	<0.00010	<0.00010	0.00112		
Si-D	mg/L			2.86					1.52	1.42			1.66	2.29	2.80	4.02		
Na-D	mg/L			256					261	257			274	241	256	383		
Sr-D	mg/L			1.28					1.06	1.04			1.05	1.29	1.26	1.93		
Zn-D	mg/L	0.1	0	0.0104					0.00114	0.00057			<0.0050	<0.0050	<0.0050	<0.010		
O&G	me/l	5	0	<1.0										<1.0				

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409	Stn Std	PL-N													
Site Description Settling Pond # 4 - Auth																
Site Name	WD	Std Val														
Date	Max	Min	2025-06-16	2025-06-23	2025-06-25	2025-06-30	2025-07-02	2025-07-07	2025-07-14	2025-07-21	2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-25	
Wlevel	m			0.096	0.141	0.085	0.217	0.124	0.213	0.171	0.117	0.137	0.144	0.012		0.133
pH-F	pH Units	8.5	6	7.07	7.39	7.15	7.26	7.02	7.11	7.16	7.49	7.57	7.61	7.92	7.5	7.41
Cond-F	uS/cm			2430.4	2300	2339.4	2895	3107.5	2060	2390	2210	2029	2130	2130	1897	2320
SO4-D	mg/L			810	850	780	840	840	830	860	740	680	680	660	660	660
TSS	mg/L	25	0	4.8	6.8	1.6	1.6	4.0	4.0	16	3.2	3.6	6.0	5.6	2.8	4.0
Alk-T	mg/L			450	430	290	290	350	320	360			480			
Acidity83	mg/L			2.9	<1.0	3.3	5.0	1.4	5.8	2.7			3.8			
Al-T	mg/L			<0.0060	0.0037	<0.0060	<0.0030	<0.0030	0.0066	0.0374						
As-T	mg/L			0.00046	0.00044	0.00033	0.00044	0.00042	0.00070	0.00090						
Ba-T	mg/L			0.0207	0.0193	0.0184	0.0168	0.0173	0.0144	0.0191						
B-T	mg/L			1.03	0.954	1.00	0.744	0.776	0.85	0.93						
Cd-T	mg/L			<0.000020	0.000015	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020						
Ca-T	mg/L			190	203	203	189	197	173	202						
Cr-T	mg/L			<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020						
Co-T	mg/L			0.00103	0.00084	0.00091	0.00043	0.00061	0.00055	0.00139						
Cu-T	mg/L			0.0014	0.00144	0.0018	0.00109	0.00139	0.0016	0.0013						
Hard-T	mg/L			568	620	609	572	593	530	617						
Fe-T	mg/L			0.947	0.782	0.889	0.746	0.801	0.466	0.530						
Pb-T	mg/L			<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040						
Mg-T	mg/L			22.9	27.2	24.7	24.3	24.5	24.1	27.1						
Mn-T	mg/L			0.572	0.398	0.411	0.226	0.310	0.105	0.381						
Mo-T	mg/L			<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020						
Ni-T	mg/L			0.0024	0.0024	0.0024	0.0013	0.0016	<0.0020	0.0033						
K-T	mg/L			6.06	5.41	5.52	4.14	4.71	5.23	5.15						
S-T	mg/L			319	322	310	297	282	317	309						
Se-T	mg/L			<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	0.00030	<0.00020						
Si-T	mg/L			3.21	2.71	2.88	2.19	2.50	2.91	2.80						
Ag-T	mg/L			<0.000040	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040	<0.000040						
Na-T	mg/L			342	304	323	218	266	291	282						
Sr-T	mg/L			2.16	2.35	1.97	1.86	1.90	1.72	2.05						
Zn-T	mg/L			<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.010						
Al-D	mg/L	0.5	0	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0060	<0.0060			<0.0030			
As-D	mg/L			0.00030	0.00029	0.00031	0.00031	0.00025	0.00026	0.00061			0.00051			
Ba-D	mg/L			0.0213	0.0191	0.0192	0.0169	0.0192	0.0177	0.0198			0.0223			
B-D	mg/L			1.18	0.87	1.00	0.803	0.884	0.92	1.09			0.982			
Be-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020			<0.00010			
Cd-D	mg/L			<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020			<0.000010			
Ca-D	mg/L			220	197	213	213	201	205	220			157			
Cr-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020			<0.0010			
Co-D	mg/L			0.00124	0.00080	0.00089	0.00050	0.00071	0.00068	0.00142			<0.00020			
Cu-D	mg/L	0.02	0	<0.00040	<0.00040	0.00066	0.00033	0.00033	<0.00040	<0.00040			0.00029			
Hard-D	mg/L			657	591	633	639	608	613	672			455			
Fe-D	mg/L	0.3	0	0.014	0.082	0.032	0.121	0.0315	<0.010	0.011			0.0134			
Pb-D	mg/L	0.05	0	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040			<0.00020			
Mg-D	mg/L			26.3	24.1	24.5	26.3	25.9	24.6	29.9			15.4			
Mn-D	mg/L			0.712	0.386	0.422	0.245	0.412	0.357	0.393			0.121			
Mo-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020			<0.0010			
Ni-D	mg/L			0.0027	0.0023	0.0025	0.0014	0.0020	0.0024	0.0032			<0.0010			
K-D	mg/L			6.80	5.41	5.81	4.49	5.46	5.93	5.62			4.78			
S-D	mg/L			348	306	337	306	320	317	328			233			
Se-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020			<0.00010			
Si-D	mg/L			3.47	2.54	3.06	2.45	2.81	2.90	3.10			3.48			
Na-D	mg/L			391	278	334	235	300	321	323			333			
Sr-D	mg/L			2.44	2.20	2.11	1.87	2.30	2.21	2.10			1.75			
Zn-D	mg/L	0.1	0	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010			<0.0050			
O&G	mg/L	5	0										1.0			

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409	Stn Std	PL-N													
Site Description				Settling Pond # 4 - Auth												
Site Name	WD	Std Val														
Date		Max	Min	2025-09-02	2025-09-08	2025-09-15	2025-09-22	2025-10-01	2025-10-06	2025-10-14	2025-10-20	2025-10-27	2025-11-03	2025-11-10	2025-11-17	2025-11-24
Wlevel	m			0.125	0.05		0	0.061	0.042	0.003		0.044	0.022	0.148	0.226	0.03
pH-F	pH Units	8.5	6	7.46	7.83	7.55	7.61	7.75	7.86	7.77	7.7	7.71	7.53	7.55	7.41	7.73
Cond-F	uS/cm			2019	2150	2004	2070	1939	1403	1796	1876	716	758	1690	1671	1541
SO4-D	mg/L			680	610	640	620	610	510	620	540	250	280	500	420	440
TSS	mg/L	25	0	5.6	3.2	3.6	1.2	1.2	2.0	2	<1.0	4	2	2.4	5.2	2.4
Alk-T	mg/L			510				410					130			
Acidity83	mg/L			2.8				<1.0					<1.0			
Al-T	mg/L			0.0056									0.0163			
As-T	mg/L			0.00087									0.00052			
Ba-T	mg/L			0.0218									0.0105			
B-T	mg/L			0.935									0.241			
Cd-T	mg/L			<0.000010									<0.000010			
Ca-T	mg/L			169									80.6			
Cr-T	mg/L			<0.0010									<0.0010			
Co-T	mg/L			<0.00020									0.00039			
Cu-T	mg/L			0.00078									0.00055			
Hard-T	mg/L			486									238			
Fe-T	mg/L			0.612									0.136			
Pb-T	mg/L			<0.00020									<0.00020			
Mg-T	mg/L			15.7									9			
Mn-T	mg/L			0.104									0.123			
Mo-T	mg/L			<0.0010									<0.0010			
Ni-T	mg/L			<0.0010									<0.0010			
K-T	mg/L			4.41									1.28			
S-T	mg/L			241									83.7			
Se-T	mg/L			<0.00010									<0.00010			
Si-T	mg/L			3.31									3.08			
Ag-T	mg/L			<0.000020									<0.000020			
Na-T	mg/L			314									52.3			
Sr-T	mg/L			1.66									0.61			
Zn-T	mg/L			<0.0050									<0.0050			
Al-D	mg/L	0.5	0	<0.0060				<0.0030					0.113			
As-D	mg/L			0.00042				0.00062					0.00043			
Ba-D	mg/L			0.0212				0.0135					0.0126			
B-D	mg/L			1.04				1.05					0.336			
Be-D	mg/L			<0.00020				<0.00010					<0.00010			
Cd-D	mg/L			<0.000020				<0.000010					<0.000010			
Ca-D	mg/L			160				128					97.4			
Cr-D	mg/L			<0.0020				<0.0010					<0.0010			
Co-D	mg/L			<0.00040				<0.00020					0.0003			
Cu-D	mg/L	0.02	0	0.00058				0.00035					0.00078			
Hard-D	mg/L			464				387					290			
Fe-D	mg/L	0.3	0	<0.010				0.0059					0.253			
Pb-D	mg/L	0.05	0	<0.00040				<0.00020					<0.00020			
Mg-D	mg/L			15.8				16.2					11.4			
Mn-D	mg/L			0.108				0.0024					0.0961			
Mo-D	mg/L			<0.0020				<0.0010					<0.0010			
Ni-D	mg/L			<0.0020				<0.0010					0.0011			
K-D	mg/L			4.39				4.68					1.66			
S-D	mg/L			225				232					109			
Se-D	mg/L			<0.00020				<0.00010					<0.00010			
Si-D	mg/L			3.33				3.49					3.14			
Na-D	mg/L			324				328					66.2			
Sr-D	mg/L			1.59				1.49					0.73			
Zn-D	mg/L	0.1	0	<0.010				<0.0050					<0.0050			
O&G	mg/L	5	0					<1.0								

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409	Stn Std	PL-N																	
Site Description Settling Pond # 4 - Autho																				
Site Name	WD	Std Val																		
Date		Max	Min	2025-12-01	2025-12-08	2025-12-15	2025-12-22	2025-12-30	2026-01-05	2026-01-12	2026-01-19	2026-01-26	2026-02-02	2026-02-09	2026-02-17	2026-02-23	2026-03-02	2026-03-09	2026-03-16	2026-03-23
Wlevel	m			0.037	0.167	0.249	0.177	0.137	0.135	0.124	0.029	0.033	0.058	0.042	0.061	0.079	0.095	0.006	0.076	0.016
pH-F	pH Units	8.5	6	7.5	7.51	7.66	7.6	7.66	7.42	7.57	7.88	7.94	7.34	7.16	7.9	7.1	7.44	7.83	7.88	7.68
Cond-F	uS/cm			1534	1826	1768	1803	1961	1776	918	463	659	720	1062	1153	609	1050.8	1376	1147	974
SO4-D	mg/L			540	550	460	450	480	470	280	310	370	250	380	350	250	370	470	380	320
TSS	mg/L	25	0	1.2	3.6	4	2.4	2.0	2.4	14	1.6	<1.0	4	<1.0	2.4	<1.0	<1.0	1.6	<1.0	<1.0
Alk-T	mg/L			250					490				100				160			
Acidity83	mg/L			2.4					<1.0				2.2				2.9			
Al-T	mg/L								0.0149				0.232				0.0498			
As-T	mg/L								0.00187				0.00033				0.00041			
Ba-T	mg/L								0.0182				0.0164				0.0173			
B-T	mg/L								0.821				0.252				0.354			
Cd-T	mg/L								<0.000010				<0.000010				<0.000010			
Ca-T	mg/L								123				93.2				151			
Cr-T	mg/L								<0.0010				<0.0010				<0.0010			
Co-T	mg/L								<0.00020				0.00055				0.0003			
Cu-T	mg/L								<0.00050				0.00162				0.0008			
Hard-T	mg/L								356				274				450			
Fe-T	mg/L								0.789				0.208				0.231			
Pb-T	mg/L								<0.00020				<0.00020				<0.00020			
Mg-T	mg/L								11.7				9.97				17.5			
Mn-T	mg/L								0.172				0.0555				0.0629			
Mo-T	mg/L								<0.0010				<0.0010				<0.0010			
Ni-T	mg/L								<0.0010				0.0019				0.0015			
K-T	mg/L								3.56				1.15				1.73			
S-T	mg/L								152				89.6				144			
Se-T	mg/L								<0.00010				<0.00010				<0.00010			
Si-T	mg/L								3.64				2.62				3.22			
Ag-T	mg/L								<0.000020				<0.000020				<0.000020			
Na-T	mg/L								244				34.2				61.6			
Sr-T	mg/L								1.27				0.604				1.04			
Zn-T	mg/L								<0.0050				<0.0050				<0.0050			
Al-D	mg/L	0.5	0	<0.0030					<0.0030				0.0201				0.0059			
As-D	mg/L			0.00032					0.00112				0.00016				0.00024			
Ba-D	mg/L			0.0193					0.0179				0.0153				0.0155			
B-D	mg/L			0.592					1.13				0.224				0.361			
Be-D	mg/L			<0.00010					<0.00010				<0.00010				<0.00010			
Cd-D	mg/L			<0.000010					<0.000010				<0.000010				<0.000010			
Ca-D	mg/L			189					130				93.4				143			
Cr-D	mg/L			<0.0010					<0.0010				<0.0010				<0.0010			
Co-D	mg/L			0.00035					<0.00020				0.00046				0.00024			
Cu-D	mg/L	0.02	0	0.00029					<0.00020				0.00072				0.0004			
Hard-D	mg/L			563					387				272				426			
Fe-D	mg/L	0.3	0	0.022					0.0054				0.0138				0.0095			
Pb-D	mg/L	0.05	0	<0.00020					<0.00020				<0.00020				<0.00020			
Mg-D	mg/L			22.2					15				9.39				16.7			
Mn-D	mg/L			0.176					0.194				0.0578				0.0568			
Mo-D	mg/L			<0.0010					<0.0010				<0.0010				<0.0010			
Ni-D	mg/L			0.0015					<0.0010				0.0017				0.0014			
K-D	mg/L			2.82					4.05				1.06				1.72			
S-D	mg/L			212					184				81				143			
Se-D	mg/L			<0.00010					<0.00010				<0.00010				<0.00010			
Si-D	mg/L			3.21					3.56				2.42				2.94			
Na-D	mg/L			141					327				30.7				59.9			
Sr-D	mg/L			1.44					1.27				0.64				0.982			
Zn-D	mg/L	0.1	0	<0.0050					<0.0050				<0.0050				<0.0050			
O&G	mg/L	5	0	<1.0									<1.0							

Appendix 1 - Tables

Table 7 2 North Pit Sump CCR Water Cover 1 Page(s)

EMS ID		E207412					
Site Description		2 North Pit Sump CCR Water Cover					
Site Name		WP					
Date		2025-04-01	2025-05-05	2025-06-02	2025-06-23	2025-06-25	2025-06-30
SG	m	2	2	1.75		1	
pH-F	pH Units	8.33	8	7.85	7.88	7.51	7.8
Cond-F	uS/cm	1475	1645	1674	1784	1740.3	2530.5
SO4-D	mg/L	560	590	720		720	770
TSS	mg/L	1.2	<1.0	1.2	1.2	4.4	1.6
Alk-T	mg/L	210	220	210	210	190	200
Acidity83	mg/L	<1.0	<1.0	<1.0	1.5	<1.0	<1.0
Al-T	mg/L	0.125	0.0226	0.0134	0.0323	0.0182	0.0045
As-T	mg/L	0.00061	0.00038	0.00035	0.00069	0.00047	0.00046
Ba-T	mg/L	0.0131	0.0141	0.0135	0.0157	0.0170	0.0143
B-T	mg/L	0.422	0.546	0.632	0.636	0.655	0.634
Cd-T	mg/L	0.000012	<0.000010	<0.000010	0.000015	<0.000010	<0.000010
Ca-T	mg/L	174	194	230	214	201	197
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00081	0.00028	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00219	0.00058	<0.00050	0.00142	0.00079	<0.00050
Hard-T	mg/L	524	599	701	643	611	604
Fe-T	mg/L	0.860	0.147	0.047	0.446	0.364	0.258
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	21.7	27.7	30.7	26.6	26.4	27.1
Mn-T	mg/L	0.0853	0.0451	0.0128	0.0170	0.0145	0.0116
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0030	0.0017	0.0012	<0.0010	<0.0010	<0.0010
K-T	mg/L	2.19	2.71	3.19	3.33	3.10	3.25
S-T	mg/L	186	250	285	279	260	271
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.26	2.19	2.10	1.85	1.74	1.75
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	108	130	149	163	157	160
Sr-T	mg/L	1.16	1.66	1.95	1.76	1.66	1.76
Zn-T	mg/L	0.0050	<0.0050	<0.0050	0.0053	<0.0050	<0.0050
Al-D	mg/L	0.0152	0.00862	0.0055	0.0032	<0.0030	<0.0030
As-D	mg/L	0.000238	0.000293	0.00030	0.00045	0.00041	0.00040
Ba-D	mg/L	0.0132	0.0128	0.0126	0.0145	0.0147	0.0142
B-D	mg/L	0.483	0.586	0.579	0.745	0.682	0.659
Be-D	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.0000056	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	180	202	223	215	205	210
Cr-D	mg/L	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.000436	0.000202	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.000532	0.000422	0.00028	0.00043	0.00039	0.00039
Hard-D	mg/L	544	613	676	677	634	639
Fe-D	mg/L	0.0079	0.0083	0.0102	0.181	0.121	0.113
Pb-D	mg/L	0.0000059	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	23.1	26.2	28.9	33.9	29.5	27.7
Mn-D	mg/L	0.0295	0.0176	0.0028	0.0014	0.0025	0.0033
Mo-D	mg/L	0.000188	0.000186	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.00266	0.00191	0.0011	<0.0010	<0.0010	<0.0010
K-D	mg/L	2.36	2.66	3.02	3.48	3.37	3.41
S-D	mg/L	215	236	275	305	298	286
Se-D	mg/L	0.000079	0.000060	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.17	2.12	2.07	2.00	1.85	1.89
Na-D	mg/L	116	133	135	200	180	167
Sr-D	mg/L	1.32	1.47	1.79	1.71	1.87	1.70
Zn-D	mg/L	0.00881	0.0381	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 8 2-North Portal Sump Effluent 1 Page(s)

EMS ID		E283433													
Site Description		2-North Portal Sump Effluent													
Site Name		2NPS													
Date		2025-04-01	2025-05-05	2025-06-02	2025-07-02	2025-08-05	2025-08-05	2025-09-02	2025-10-01	2025-11-03	2025-12-01	2026-01-05	2026-02-02	2026-03-02	
pH-F	pH Units	7.45	7.45	7.45	7.48	7.72	7.72	7.69	7.74	7.78	7.77	7.53	7.51	7.46	
Cond-F	uS/cm	2100	2100	2270	1910	2340	2340	2044	1212	684	544	645	886	545	
SO4-D	mg/L	900	850	880	780	1100	1100	1100	520	280	330	220	350	150	
Alk-T	mg/L		290	300	260	280	270	230	88	50	77	58	110	69	
Acidity83	mg/L		5.6	2.7	1.6	3.3	4.4	<1.0	<1.0	1.9	<1.0	1.1	2.6	1.4	
Al-T	mg/L	0.0614	0.0400	0.0244	0.0445	0.0111	0.0079	0.0072	0.676	0.0807	0.0391	0.0942	0.243	0.237	
As-T	mg/L	0.00043	0.00071	0.00028	0.00021	0.00028	0.00024	<0.00020	0.00112	0.0001	<0.00010	0.00013	0.00035	0.0004	
Ba-T	mg/L	0.0113	0.0117	0.0131	0.0182	0.0143	0.0130	0.0112	0.0204	0.0118	0.0173	0.0145	0.0306	0.0343	
B-T	mg/L	0.58	0.73	0.75	0.67	0.94	0.84	0.88	0.438	0.188	0.3	0.18	0.332	0.259	
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000320	0.000047	0.000032	0.00003	0.000029	0.000014	
Ca-T	mg/L	258	278	315	264	354	335	338	160	93.2	136	87.8	127	73.8	
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	0.001	
Co-T	mg/L	0.00166	0.00116	0.00079	0.00091	<0.00040	<0.00040	<0.00040	0.00776	0.00602	0.00424	0.00332	0.00346	0.00145	
Cu-T	mg/L	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	0.00815	0.0018	0.00079	0.00098	0.00287	0.00281	
Hard-T	mg/L	761	827	940	780	1060	999	1010	473	269	394	252	371	214	
Fe-T	mg/L	0.197	0.267	0.144	0.114	0.043	0.031	0.024	1.57	0.116	0.047	0.08	0.211	0.538	
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-T	mg/L	28.5	32.4	37.3	29.4	42.2	39.3	41.2	17.8	8.71	13.5	7.86	13.3	7.09	
Mn-T	mg/L	0.201	0.172	0.100	0.180	0.0064	0.0057	0.0033	0.173	0.285	0.248	0.123	0.151	0.0742	
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-T	mg/L	0.0039	0.0032	0.0028	0.0035	<0.0020	<0.0020	<0.0020	0.0116	0.0109	0.0075	0.0061	0.0077	0.0031	
K-T	mg/L	3.10	3.59	3.89	3.34	4.44	4.15	4.56	2.33	1.04	1.42	0.91	1.41	0.756	
S-T	mg/L	267	331	356	283	422	400	436	192	93.4	126	75.2	122	58.7	
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	0.00015	0.00014	0.00012	0.00019	<0.00010	
Si-T	mg/L	2.67	3.23	3.17	2.63	1.84	1.74	0.20	1.54	1.2	1.39	1.2	1.66	0.87	
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Na-T	mg/L	147	174	177	156	198	185	199	65.4	20	32.5	16	32.6	14.7	
Sr-T	mg/L	1.75	2.12	2.48	1.87	2.96	2.83	2.71	1.17	0.5	0.833	0.413	0.811	0.422	
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0166	0.0086	<0.0050	<0.0050	0.0076	<0.0050	
Al-D	mg/L	0.0158	0.0154	0.0123	0.0196	<0.0060	<0.0060	<0.0060	0.0255	0.0236	0.0183	0.012	0.0219	0.008	
As-D	mg/L	0.000348	0.000410	0.00022	0.00022	0.00023	0.00028	0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	
Ba-D	mg/L	0.0125	0.0115	0.0121	0.0182	0.0137	0.0137	0.0118	0.0176	0.0136	0.017	0.0142	0.0306	0.0336	
B-D	mg/L	0.706	0.716	0.70	0.650	0.91	0.87	1.04	0.471	0.221	0.314	0.188	0.318	0.251	
Be-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Cd-D	mg/L	0.000015	<0.000010	<0.000020	0.000026	<0.000020	<0.000020	<0.000020	0.000089	0.000049	0.000036	0.000026	0.000031	0.000019	
Ca-D	mg/L	284	261	308	237	341	350	334	179	104	129	84.3	139	66.7	
Cr-D	mg/L	<0.00020	<0.00020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	0.00181	0.00119	0.00074	0.00081	<0.00040	<0.00040	<0.00040	0.00747	0.00673	0.00486	0.00326	0.00363	0.00089	
Cu-D	mg/L	0.00033	0.00046	<0.00040	0.00084	0.00046	0.00045	0.00040	0.00131	0.0011	0.0006	0.00038	0.00107	0.00045	
Hard-D	mg/L	842	771	910	706	1020	1040	1010	519	306	379	244	400	192	
Fe-D	mg/L	0.0123	0.0087	0.016	0.0125	<0.010	<0.010	0.011	0.0288	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Pb-D	mg/L	<0.000010	0.000019	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L	32.5	29.0	34.3	27.8	39.8	40.4	43.5	17.6	11.1	13.8	8.22	13	6.15	
Mn-D	mg/L	0.228	0.170	0.0937	0.178	<0.0020	<0.0020	0.0021	0.172	0.342	0.254	0.124	0.16	0.0477	
Mo-D	mg/L	0.00013	0.00013	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	0.00452	0.00324	0.0025	0.0033	<0.0020	<0.0020	<0.0020	0.0103	0.0122	0.008	0.0058	0.0081	0.0022	
K-D	mg/L	3.77	3.50	3.51	3.37	4.33	4.54	4.50	2.31	1.21	1.44	0.947	1.41	0.658	
S-D	mg/L	327	294	332	300	401	402	420	187	104	125	76.7	116	52.1	
Se-D	mg/L	<0.000080	<0.000080	<0.00020	<0.00010	<0.00020	0.00036	<0.00020	0.00031	0.00016	0.00016	0.00011	0.00019	0.00012	
Si-D	mg/L	2.99	3.01	3.09	2.43	1.81	1.88	<0.20	0.81	1.39	1.35	1.05	1.54	0.54	
Na-D	mg/L	166	167	166	145	194	196	206	66.3	23.5	31.3	16.1	32	12.2	
Sr-D	mg/L	2.12	1.88	2.29	2.03	2.79	2.61	2.89	1.04	0.543	0.73	0.379	0.871	0.37	
Zn-D	mg/L	0.0106	0.0202	<0.010	0.0056	<0.010	<0.010	<0.010	0.0081	0.0085	<0.0050	<0.0050	0.0067	<0.0050	

Appendix 1 - Tables

Table 9 Road Side Ditch Draining into MQL 1 Page(s)

EMS ID		N/A	
Site Description		Road Side Ditch Draining into MQL	
Site Name		PDSR	
Date		2025-04-01	2025-05-05
pH-F	pH Units	7.47	7.36
Cond-F	uS/cm	685	1424
SO4-D	mg/L	270	600
TSS	mg/L	2.0	<1.0
Al-T	mg/L	0.0187	0.0129
Al-T (Chronic WQG)	mg/L	0.022	0.022
As-T	mg/L	<0.00010	<0.00010
Ba-T	mg/L	0.0107	0.0233
B-T	mg/L	0.076	0.194
Cd-T	mg/L	<0.000010	<0.000010
Ca-T	mg/L	85.3	207
Cr-T	mg/L	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020
Cu-T	mg/L	0.00064	<0.00050
Hard-T	mg/L	274	647
Fe-T	mg/L	0.017	<0.010
Pb-T	mg/L	<0.00020	<0.00020
Mg-T	mg/L	14.9	31.6
Mn-T	mg/L	0.0017	0.0034
Mo-T	mg/L	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010
K-T	mg/L	0.600	1.27
S-T	mg/L	75.2	195
Se-T	mg/L	<0.00010	<0.00010
Si-T	mg/L	3.16	3.61
Ag-T	mg/L	<0.000020	<0.000020
Na-T	mg/L	18.3	39.0
Sr-T	mg/L	0.452	1.23
Zn-T	mg/L	<0.0050	<0.0050
Al-D	mg/L	0.00925	0.0070
As-D	mg/L	0.000073	0.000121
Ba-D	mg/L	0.0127	0.0240
B-D	mg/L	0.122	0.241
Be-D	mg/L	<0.000010	<0.000020
Cd-D	mg/L	<0.0000050	<0.000010
Ca-D	mg/L	122	220
Cr-D	mg/L	<0.00010	<0.00020
Co-D	mg/L	0.0000274	0.000054
Cu-D	mg/L	0.000395	0.00053
Hard-D	mg/L	378	698
Fe-D	mg/L	0.0055	0.0022
Pb-D	mg/L	<0.0000050	0.000016
Mg-D	mg/L	20.5	36.3
Mn-D	mg/L	0.00156	0.00283
Mo-D	mg/L	0.000105	0.00019
Ni-D	mg/L	0.000070	0.000115
K-D	mg/L	0.788	1.52
S-D	mg/L	114	207
Se-D	mg/L	<0.000040	<0.000080
Si-D	mg/L	3.39	3.47
Na-D	mg/L	25.3	42.7
Sr-D	mg/L	0.734	1.34
Zn-D	mg/L	0.00027	0.00077

Appendix 1 - Tables

Table 10 Culvert at Middle Quinsam Lake Road 2 Page(s)

EMS ID		E207411							
Site Description		Culvert at Middle Quinsam Lake Road							
Site Name		WC							
Date		2025-04-01	2025-04-01	2025-05-05	2025-06-02	2025-06-09	2025-06-23	2025-06-25	2025-06-30
pH-F	pH Units	8.3	8.3	8.35	8.26	8.14	8.12	8	7.93
Cond-F	uS/cm	1455	1455	1724	1269	1973.4	2350	2203.1	2781.8
SO4-D	mg/L	390	400	360	310	650		800	820
TSS	mg/L	1.2	1.6	<1.0	<1.0	1.6	1.2	2.4	1.2
Al-T	mg/L			0.0044		0.0050	0.0046	0.0037	0.0041
As-T	mg/L			0.00046		0.00083	0.00051	0.00043	0.00045
Ba-T	mg/L			0.0137		0.0284	0.0249	0.0257	0.0238
B-T	mg/L			0.672		0.817	0.881	0.909	0.758
Cd-T	mg/L			<0.000010		<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L			66.8		133	157	166	180
Cr-T	mg/L			0.0014		<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L			<0.00020		<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050		<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L			209		410	475	503	552
Fe-T	mg/L			0.056		0.058	0.063	0.067	0.154
Pb-T	mg/L			<0.00020		<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L			10.3		18.9	20.1	21.6	24.9
Mn-T	mg/L			0.0218		0.0261	0.0160	0.0171	0.0150
Mo-T	mg/L			<0.0010		<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010		<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L			2.58		4.28	5.20	5.16	4.20
S-T	mg/L			135		235	276	309	279
Se-T	mg/L			<0.00010		<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L			2.56		4.19	3.01	2.98	2.47
Ag-T	mg/L			<0.000020		<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L			211		295	315	304	223
Sr-T	mg/L			0.838		1.47	1.88	1.93	1.86
Zn-T	mg/L			<0.0050		<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L			0.00394		0.0051	0.0119	<0.0060	<0.0030
As-D	mg/L			0.000487		0.00074	0.00053	0.00045	0.00038
Ba-D	mg/L			0.0141		0.0289	0.0279	0.0266	0.0234
B-D	mg/L			0.705		0.736	1.09	1.01	0.768
Be-D	mg/L			<0.000010		<0.00010	<0.00020	<0.00020	<0.00010
Cd-D	mg/L			<0.0000050		<0.000010	<0.000020	<0.000020	<0.000010
Ca-D	mg/L			69.2		134	167	176	195
Cr-D	mg/L			<0.00010		<0.0010	<0.0020	<0.0020	<0.0010
Co-D	mg/L			0.0000730		<0.00020	<0.00040	<0.00040	<0.00020
Cu-D	mg/L			0.000331		0.00031	<0.00040	<0.00040	0.00022
Hard-D	mg/L			214		399	510	534	591
Fe-D	mg/L			0.0223		0.0366	0.015	0.019	0.0350
Pb-D	mg/L			<0.0000050		<0.00020	<0.00040	<0.00040	<0.00020
Mg-D	mg/L			9.87		15.6	23.0	23.2	25.0
Mn-D	mg/L			0.0219		0.0248	0.0166	0.0188	0.0145
Mo-D	mg/L			0.000362		<0.0010	<0.0020	<0.0020	<0.0010
Ni-D	mg/L			0.000481		<0.0010	<0.0020	<0.0020	<0.0010
K-D	mg/L			2.56		4.14	6.13	5.52	4.43
S-D	mg/L			128		236	306	310	288
Se-D	mg/L			<0.000040		<0.00010	<0.00020	<0.00020	<0.00010
Si-D	mg/L			2.56		3.64	3.45	3.18	2.70
Na-D	mg/L			206		259	359	326	230
Sr-D	mg/L			0.759		1.64	1.99	1.96	1.79
Zn-D	mg/L			0.00049		<0.0050	<0.010	<0.010	<0.0050

Appendix 1 - Tables

Table 10 Culvert at Middle Quinsam Lake Road 2 Page(s)

EMS ID		E207411												
Site Description		Culvert :												
Site Name		WC												
Date		2025-07-02	2025-07-02	2025-08-05	2025-09-02	2025-10-01	2025-11-03	2025-12-01	2026-01-05	2026-01-05	2026-02-02	2026-02-02	2026-03-02	
pH-F	pH Units	7.97	7.97	8.27	8.07	7.95	7.77	7.89	8.17	8.17	7.81	7.81	7.55	
Cond-F	uS/cm	2866.4	2866.4	1997	2005	1199	592	999	1567	1567	507	507	554.2	
SO4-D	mg/L	770	800	690	620	360	170	280	380	380	150	140	190	
TSS	mg/L	<1.0	1.2	<1.0	1.2	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	
Al-T	mg/L	<0.0030	<0.0030		<0.0030		0.0256		0.0134	0.0131			0.0179	
As-T	mg/L	0.00036	0.00036		0.00043		0.00025		0.00054	0.00051			0.0002	
Ba-T	mg/L	0.0249	0.0245		0.0186		0.0055		0.0136	0.014			0.0078	
B-T	mg/L	0.775	0.753		0.983		0.234		0.729	0.697			0.239	
Cd-T	mg/L	<0.000010	<0.000010		<0.000010		<0.000010		<0.000010	<0.000010			<0.000010	
Ca-T	mg/L	180	178		119		42.1		101	102			69	
Cr-T	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
Co-T	mg/L	<0.00020	<0.00020		<0.00020		<0.00020		<0.00020	<0.00020			<0.00020	
Cu-T	mg/L	<0.00050	<0.00050		<0.00050		<0.00050		<0.00050	<0.00050			<0.00050	
Hard-T	mg/L	547	543		361		126		294	298			205	
Fe-T	mg/L	0.086	0.086		0.044		0.037		0.102	0.101			0.032	
Pb-T	mg/L	<0.00020	<0.00020		<0.00020		<0.00020		<0.00020	<0.00020			<0.00020	
Mg-T	mg/L	23.7	23.8		15.3		5.1		10.5	10.4			7.94	
Mn-T	mg/L	0.0157	0.0158		0.0186		0.0065		0.0249	0.0245			0.0067	
Mo-T	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
Ni-T	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
K-T	mg/L	4.40	4.32		4.34		1.1		2.92	2.98			0.957	
S-T	mg/L	266	272		245		49.9		130	136			62.2	
Se-T	mg/L	<0.00010	<0.00010		<0.00010		<0.00010		<0.00010	<0.00010			<0.00010	
Si-T	mg/L	2.79	2.79		3.36		3.16		3.42	3.43			3	
Ag-T	mg/L	<0.000020	<0.000020		<0.000020		<0.000020		<0.000020	<0.000020			<0.000020	
Na-T	mg/L	243	240		310		55.9		206	204			35.2	
Sr-T	mg/L	1.84	1.80		1.53		0.389		1.04	1.05			0.501	
Zn-T	mg/L	<0.0050	<0.0050		<0.0050		<0.0050		<0.0050	<0.0050			<0.0050	
Al-D	mg/L	<0.0030	<0.0030		<0.0030		0.0206		0.0093	0.0094			0.0129	
As-D	mg/L	0.00041	0.00038		0.00045		0.00027		0.00048	0.00045			0.00019	
Ba-D	mg/L	0.0267	0.0265		0.0209		0.0063		0.0147	0.0143			0.0076	
B-D	mg/L	0.834	0.818		1.17		0.284		0.72	0.882			0.231	
Be-D	mg/L	<0.00010	<0.00010		<0.00010		<0.00010		<0.00010	<0.00010			<0.00010	
Cd-D	mg/L	<0.000010	<0.000010		<0.000010		<0.000010		<0.000010	<0.000010			<0.000010	
Ca-D	mg/L	178	179		125		46.1		110	109			66.6	
Cr-D	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
Co-D	mg/L	<0.00020	<0.00020		<0.00020		<0.00020		<0.00020	<0.00020			<0.00020	
Cu-D	mg/L	0.00023	0.00022		<0.00020		0.00048		0.00021	0.00021			0.00032	
Hard-D	mg/L	546	552		394		141		320	326			198	
Fe-D	mg/L	0.0384	0.0345		0.0113		0.0273		0.0102	0.0112			0.015	
Pb-D	mg/L	<0.00020	<0.00020		<0.00020		<0.00020		<0.00020	<0.00020			<0.00020	
Mg-D	mg/L	24.8	25.7		20.2		6.19		11	13.2			7.75	
Mn-D	mg/L	0.0163	0.0165		0.0197		0.0067		0.0253	0.0244			0.0048	
Mo-D	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
Ni-D	mg/L	<0.0010	<0.0010		<0.0010		<0.0010		<0.0010	<0.0010			<0.0010	
K-D	mg/L	4.73	4.69		4.88		1.29		3.16	3.26			0.988	
S-D	mg/L	298	298		256		57.1		142	154			62.7	
Se-D	mg/L	<0.00010	<0.00010		<0.00010		<0.00010		<0.00010	<0.00010			<0.00010	
Si-D	mg/L	2.85	2.84		3.54		3.45		3.64	3.6			2.97	
Na-D	mg/L	252	258		395		66.8		218	275			35.3	
Sr-D	mg/L	2.08	2.07		1.69		0.439		1.15	1.06			0.486	
Zn-D	mg/L	<0.0050	<0.0050		<0.0050		<0.0050		<0.0050	<0.0050			<0.0050	

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582	PL-S																			
Site Description																					
Settling Pond #1 - Authorized Discharge Location for South Mine Water																					
Site Name	SPD	Std Val																			
Date		Max	Min	2025-04-01	2025-04-07	2025-04-14	2025-04-14	2025-04-22	2025-04-28	2025-05-05	2025-05-12	2025-05-20	2025-05-26	2025-06-02	2025-06-09	2025-06-16	2025-06-16	2025-06-23	2025-07-02	2025-07-07	2025-07-14
Wlevel	m			0.06		0.04	0.04	0	0.01	0	0.01	0.01	0.01	0	0	-0.03	-0.03	-0.03	0	-0.01	-0.03
pH-F	pH Units	8.5	6	7.75	7.85	7.51	7.51	8.14	7.97	7.83	7.94	7.46	7.59	7.63	7.71	7.61	7.61	7.59	7.78	7.75	7.55
Cond-F	uS/cm			540	768	832	832	917	892	810	880	845	846	817	853	854	854	839	800	834	841
SO4-D	mg/L			200	290	300	310	330	340	320	310	330	330	320	320	320	320	330	330	320	330
TSS	mg/L	25		2.4	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	1.2	<1.0	<1.0	1.6	1.6	1.6	<1.0	2.4	1.6	2.4
Alk-T	mg/L			77						110				97					89		
Acidity83	mg/L			<1.0						<1.0				1.2					1.2		
Al-T	mg/L									0.0055									0.0051		
As-T	mg/L									0.00193									0.00314		
Ba-T	mg/L									0.0124									0.0136		
B-T	mg/L									0.202									0.213		
Cd-T	mg/L									<0.000010									<0.000010		
Ca-T	mg/L									132									125		
Cr-T	mg/L									<0.0010									<0.0010		
Co-T	mg/L									<0.00020									<0.00020		
Cu-T	mg/L									<0.00050									<0.00050		
Hard-T	mg/L									392									381		
Fe-T	mg/L									0.110									0.125		
Pb-T	mg/L									<0.00020									<0.00020		
Mg-T	mg/L									15.2									16.9		
Mn-T	mg/L									0.0350									0.0810		
Mo-T	mg/L									<0.0010									<0.0010		
Ni-T	mg/L									<0.0010									<0.0010		
K-T	mg/L									1.12									1.23		
S-T	mg/L									113									112		
Se-T	mg/L									<0.00010									<0.00010		
Si-T	mg/L									1.97									2.49		
Ag-T	mg/L									<0.000020									<0.000020		
Na-T	mg/L									20.0									22.0		
Sr-T	mg/L									0.864									0.864		
Zn-T	mg/L									<0.0050									<0.0050		
Al-D	mg/L	0.5		0.0281						0.00170				<0.0030					<0.0030		
As-D	mg/L			0.00184						0.00171				0.00207					0.00293		
Ba-D	mg/L			0.00693						0.0119				0.0117					0.0123		
B-D	mg/L			0.130						0.187				0.241					0.218		
Be-D	mg/L			<0.000010						<0.000010				<0.00010					<0.00010		
Cd-D	mg/L			<0.0000050						<0.0000050				<0.000010					0.000012		
Ca-D	mg/L			79.0						128				135					120		
Cr-D	mg/L			0.00013						<0.00010				<0.0010					<0.0010		
Co-D	mg/L			0.000126						0.0000720				<0.00020					<0.00020		
Cu-D	mg/L	0.02		0.000314						0.000218				0.00020					<0.00020		
Hard-D	mg/L			234						384				407					368		
Fe-D	mg/L	0.5		0.0568						0.0486				0.0548					0.0728		
Pb-D	mg/L	0.05		0.0000068						<0.0000050				<0.00020					<0.00020		
Mg-D	mg/L			8.95						15.8				16.7					16.6		
Mn-D	mg/L			0.0254						0.0208				0.0215					0.0159		
Mo-D	mg/L			0.000337						0.000303				<0.0010					<0.0010		
Ni-D	mg/L			0.000396						0.000428				<0.0010					<0.0010		
K-D	mg/L			0.743						1.20				1.21					1.20		
S-D	mg/L			66.6						111				123					117		
Se-D	mg/L			0.000049						0.000050				0.00020					<0.00010		
Si-D	mg/L			2.60						1.94				1.94					2.49		
Na-D	mg/L			16.2						20.8				19.8					21.0		
Sr-D	mg/L			0.531						0.833				0.944					0.978		
Zn-D	mg/L	0.2		0.0127						0.00030				<0.0050					<0.0050		
O&G	mg/L	<DL		1.2										<1.0							

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582																
Site Description																	
Site Name		SPD	Std Val														
Date		Max	Min	2025-07-21	2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-20	2025-08-25	2025-08-26	2025-08-27	2025-09-02	2025-09-08	2025-09-15	2025-09-22	2025-10-01
Wlevel	m				-0.12	-0.17	-0.16	-0.17		-0.18	-0.23		-0.25	-0.26	0	-0.09	0.02
pH-F	pH Units	8.5	6	8.31	7.75	7.78	7.87	7.58		7.73			7.59	7.51	6.93	7.56	7.51
Cond-F	uS/cm			797	832	857	847	806		831			825	920	872	898	850
SO4-D	mg/L					340							330				320
TSS	mg/L	25				2.8							2.4				1.2
Alk-T	mg/L					100							100				110
Acidity83	mg/L					1.5							1.1				<1.0
Al-T	mg/L												0.0173				
As-T	mg/L												0.00519				
Ba-T	mg/L												0.0205				
B-T	mg/L												0.270				
Cd-T	mg/L												<0.000010				
Ca-T	mg/L												128				
Cr-T	mg/L												<0.0010				
Co-T	mg/L												<0.00020				
Cu-T	mg/L												<0.00050				
Hard-T	mg/L												398				
Fe-T	mg/L												0.129				
Pb-T	mg/L												<0.00020				
Mg-T	mg/L												18.8				
Mn-T	mg/L												0.0956				
Mo-T	mg/L												<0.0010				
Ni-T	mg/L												<0.0010				
K-T	mg/L												1.61				
S-T	mg/L												124				
Se-T	mg/L												<0.00010				
Si-T	mg/L												6.59				
Ag-T	mg/L												<0.000020				
Na-T	mg/L												25.8				
Sr-T	mg/L												0.937				
Zn-T	mg/L												<0.0050				
Al-D	mg/L	0.5				<0.0030							<0.0030				<0.0030
As-D	mg/L					0.00429							0.00516				0.00226
Ba-D	mg/L					0.0145							0.0154				0.0142
B-D	mg/L					0.259							0.297				0.314
Be-D	mg/L					<0.00010							<0.00010				<0.00010
Cd-D	mg/L					<0.000010							<0.000010				<0.000010
Ca-D	mg/L					136							134				137
Cr-D	mg/L					<0.0010							<0.0010				<0.0010
Co-D	mg/L					<0.00020							<0.00020				<0.00020
Cu-D	mg/L	0.02				0.00034							<0.00020				<0.00020
Hard-D	mg/L					415							419				422
Fe-D	mg/L	0.5				0.100							0.0566				0.0683
Pb-D	mg/L	0.05				<0.00020							<0.00020				<0.00020
Mg-D	mg/L					18.6							20.2				19.2
Mn-D	mg/L					0.0458							0.0517				0.0144
Mo-D	mg/L					<0.0010							<0.0010				<0.0010
Ni-D	mg/L					<0.0010							<0.0010				<0.0010
K-D	mg/L					1.50							1.59				1.59
S-D	mg/L					118							122				122
Se-D	mg/L					<0.00010							0.00015				<0.00010
Si-D	mg/L					5.97							6.46				5.33
Na-D	mg/L					24.6							27.8				27.2
Sr-D	mg/L					0.929							1.04				0.902
Zn-D	mg/L	0.2				<0.0050							<0.0050				<0.0050
O&G	mg/L	<DL				<1.0											<1.0

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID		E218582														
Site Description																
Site Name		SPD	Std Val													
Date		Max	Min	2025-10-06	2025-10-14	2025-10-20	2025-10-27	2025-11-03	2025-11-10	2025-11-10	2025-11-17	2025-11-24	2025-12-01	2025-12-08	2025-12-15	2025-12-22
Wlevel	m			0	0.01	0.01	0.09	0.07	0.09	0.09		0.03	0.03	0.06	0.14	0.06
pH-F	pH Units	8.5	6	7.62	7.36	7.82	7.2	7.21	7.29	7.29	7.41	7.21	7.4	7.33	7.46	6.84
Cond-F	uS/cm			853	873	925	629	532	656	656	666	591	698	544	616	695
SO4-D	mg/L			340	340	330	220	120	250	240	250	270	210	190	210	220
TSS	mg/L	25		2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.2	2	<1.0	<1.0	1.6
Alk-T	mg/L							49					85			
Acidity83	mg/L							1.6					1			
Al-T	mg/L							0.0887								
As-T	mg/L							0.0007								
Ba-T	mg/L							0.0031								
B-T	mg/L							0.055								
Cd-T	mg/L							<0.000010								
Ca-T	mg/L							28.3								
Cr-T	mg/L							<0.0010								
Co-T	mg/L							<0.00020								
Cu-T	mg/L							0.00074								
Hard-T	mg/L							86								
Fe-T	mg/L							0.14								
Pb-T	mg/L							<0.00020								
Mg-T	mg/L							3.71								
Mn-T	mg/L							0.0132								
Mo-T	mg/L							<0.0010								
Ni-T	mg/L							<0.0010								
K-T	mg/L							0.336								
S-T	mg/L							18.9								
Se-T	mg/L							<0.00010								
Si-T	mg/L							3.43								
Ag-T	mg/L							<0.000020								
Na-T	mg/L							4.3								
Sr-T	mg/L							0.156								
Zn-T	mg/L							<0.0050								
Al-D	mg/L	0.5						0.0591					0.0236			
As-D	mg/L							0.00142					0.00146			
Ba-D	mg/L							0.0068					0.0088			
B-D	mg/L							0.12					0.157			
Be-D	mg/L							<0.00010					<0.00010			
Cd-D	mg/L							<0.000010					<0.000010			
Ca-D	mg/L							66.5					97.3			
Cr-D	mg/L							<0.0010					<0.0010			
Co-D	mg/L							<0.00020					<0.00020			
Cu-D	mg/L	0.02						0.00054					0.00032			
Hard-D	mg/L							201					294			
Fe-D	mg/L	0.5						0.123					0.0874			
Pb-D	mg/L	0.05						<0.00020					<0.00020			
Mg-D	mg/L							8.42					12.4			
Mn-D	mg/L							0.0322					0.0549			
Mo-D	mg/L							<0.0010					<0.0010			
Ni-D	mg/L							<0.0010					<0.0010			
K-D	mg/L							0.736					0.912			
S-D	mg/L							53.2					82.1			
Se-D	mg/L							<0.00010					<0.00010			
Si-D	mg/L							3.57					3.41			
Na-D	mg/L							13.6					17.7			
Sr-D	mg/L							0.413					0.565			
Zn-D	mg/L							<0.0050					<0.0050			
O&G	mg/L	<DL											<1.0			

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582																
Site Description																	
Site Name		SPD		Std Val													
Date		Max	Min	2025-12-22	2025-12-30	2026-01-05	2026-01-12	2026-01-19	2026-01-26	2026-02-02	2026-02-09	2026-02-17	2026-02-23	2026-03-02	2026-03-09	2026-03-16	2026-03-23
Wlevel	m			0.06	0.03	0.04	0.14	0.04	0.02	0.1	0.04	0.07		0.03	0.09	0.08	0.08
pH-F	pH Units	8.5	6	6.84	6.51	6.95	7.34	7.28	6.8	7.1	6.85	7.21	7.26	6.76	7.64	7.24	7.64
Cond-F	uS/cm			695	302	645	412	431	323	490	331	698	575	594	653	725	702
SO4-D	mg/L			230	97	240	140	200	150	180	100	270	170	270	230	260	240
TSS	mg/L	25		<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L					91				69				100			
Acidity83	mg/L					1.8				2.1				1.9			
Al-T	mg/L					0.0367				0.0698				0.0464			
As-T	mg/L					0.00113				0.00116				0.00063			
Ba-T	mg/L					0.0096				0.0063				0.0041			
B-T	mg/L					0.119				0.107				0.061			
Cd-T	mg/L					<0.000010				<0.000010				<0.000010			
Ca-T	mg/L					81.6				70.4				41.9			
Cr-T	mg/L					<0.0010				<0.0010				<0.0010			
Co-T	mg/L					<0.00020				<0.00020				<0.00020			
Cu-T	mg/L					<0.00050				<0.00050				<0.00050			
Hard-T	mg/L					246				210				126			
Fe-T	mg/L					0.343				0.138				0.21			
Pb-T	mg/L					<0.00020				<0.00020				<0.00020			
Mg-T	mg/L					10.2				8.28				5.21			
Mn-T	mg/L					0.0607				0.0194				0.0236			
Mo-T	mg/L					<0.0010				<0.0010				<0.0010			
Ni-T	mg/L					<0.0010				<0.0010				<0.0010			
K-T	mg/L					0.674				0.664				0.372			
S-T	mg/L					65				59.1				33.9			
Se-T	mg/L					<0.00010				<0.00010				<0.00010			
Si-T	mg/L					2.99				2.84				2.97			
Ag-T	mg/L					<0.000020				<0.000020				<0.000020			
Na-T	mg/L					12.4				10.2				5.79			
Sr-T	mg/L					0.477				0.416				0.225			
Zn-T	mg/L					<0.0050				<0.0050				<0.0050			
Al-D	mg/L	0.5				0.0175				0.0376				0.0192			
As-D	mg/L					0.00104				0.00096				0.00117			
Ba-D	mg/L					0.012				0.0062				0.0086			
B-D	mg/L					0.175				0.102				0.16			
Be-D	mg/L					<0.00010				<0.00010				<0.00010			
Cd-D	mg/L					<0.000010				<0.000010				<0.000010			
Ca-D	mg/L					103				76.2				122			
Cr-D	mg/L					<0.0010				<0.0010				<0.0010			
Co-D	mg/L					<0.00020				<0.00020				<0.00020			
Cu-D	mg/L	0.02				0.00024				0.00041				0.00035			
Hard-D	mg/L					312				226				365			
Fe-D	mg/L	0.5				0.133				0.0834				0.0303			
Pb-D	mg/L	0.05				<0.00020				<0.00020				<0.00020			
Mg-D	mg/L					13.4				8.61				14.5			
Mn-D	mg/L					0.0666				0.0202				0.0155			
Mo-D	mg/L					<0.0010				<0.0010				<0.0010			
Ni-D	mg/L					<0.0010				<0.0010				<0.0010			
K-D	mg/L					0.913				0.649				0.968			
S-D	mg/L					90.9				57.7				98.5			
Se-D	mg/L					<0.00010				<0.00010				<0.00010			
Si-D	mg/L					2.93				3.04				2.66			
Na-D	mg/L					16.4				10				15			
Sr-D	mg/L					0.633				0.459				0.697			
Zn-D	mg/L	0.2				<0.0050				<0.0050				<0.0050			
O&G	mg/L	<DL								<1.0							

Appendix 1 - Tables

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description		Passive Treatment System (PTS) Influent from 2-S Mine Pool													
Site Name	INF														
Date		2025-04-01	2025-04-07	2025-04-14	2025-04-22	2025-04-22	2025-04-28	2025-04-28	2025-05-12	2025-05-20	2025-05-20	2025-05-26	2025-06-02	2025-06-09	
Flow	m3/s		0.0034	0.0032	0.0031	0.0031	0.0032	0.0032	0.0029	0.0032	0.0032	0.0028	0.003	0.0026	
pH-F	pH Units	7.18	7.15	6.98	7.04	7.04	6.94	6.94	7.47	7.12	7.12	7.11	7.16	6.91	
Cond-F	uS/cm	1236	1306	1459	1470	1470	1511	1511	1386	1485	1485	1525	1518	1555	
H2S	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
SO4-D	mg/L	400	460	500	530	510	560	550	540	510	510	570	550	550	
TSS	mg/L	1.2											4.8		
Alk-T	mg/L	210											260		
Acidity83	mg/L	3.1											4.3		
Al-T	mg/L	<0.0030											<0.0030		
As-T	mg/L	0.00052											0.00285		
Ba-T	mg/L	0.0163											0.0202		
B-T	mg/L	0.452											0.658		
Cd-T	mg/L	<0.000010											<0.000010		
Ca-T	mg/L	158											231		
Cr-T	mg/L	<0.0010											<0.0010		
Co-T	mg/L	0.00132											0.00129		
Cu-T	mg/L	<0.00050											<0.00050		
Hard-T	mg/L	436											650		
Fe-T	mg/L	0.269											2.15		
Pb-T	mg/L	<0.00020											<0.00020		
Mg-T	mg/L	10.2											17.6		
Mn-T	mg/L	0.145											0.305		
Mo-T	mg/L	<0.0010											<0.0010		
Ni-T	mg/L	0.0021											0.0015		
K-T	mg/L	1.32											1.92		
S-T	mg/L	133											213		
Se-T	mg/L	<0.00010											<0.00010		
Si-T	mg/L	2.34											2.96		
Ag-T	mg/L	<0.000020											<0.000020		
Na-T	mg/L	77.9											95.8		
Sr-T	mg/L	1.45											2.37		
Zn-T	mg/L	<0.0050											<0.0050		
Al-D	mg/L	0.00066											<0.0030		
As-D	mg/L	0.000540											0.00222		
Ba-D	mg/L	0.0184											0.0186		
B-D	mg/L	0.529											0.559		
Be-D	mg/L	<0.000010											<0.000010		
Cd-D	mg/L	<0.0000050											<0.000010		
Ca-D	mg/L	168											227		
Cr-D	mg/L	<0.00010											<0.0010		
Co-D	mg/L	0.00150											0.00122		
Cu-D	mg/L	0.000355											<0.00020		
Hard-D	mg/L	466											633		
Fe-D	mg/L	0.180											1.70		
Pb-D	mg/L	0.0000060											<0.00020		
Mg-D	mg/L	11.1											15.9		
Mn-D	mg/L	0.173											0.286		
Mo-D	mg/L	0.000249											<0.0010		
Ni-D	mg/L	0.00246											0.0015		
K-D	mg/L	1.58											1.77		
S-D	mg/L	160											199		
Se-D	mg/L	0.000079											<0.00010		
Si-D	mg/L	2.50											3.04		
Na-D	mg/L	86.6											88.4		
Sr-D	mg/L	1.72											2.15		
Zn-D	mg/L	0.0134											<0.0050		

Appendix 1 - Tables

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description															
Site Name		INF													
Date		2025-06-16	2025-06-23	2025-07-07	2025-07-14	2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-18	2025-08-18	2025-09-02	2025-09-08	2025-09-15	2025-09-22
Flow	m3/s	0.0036	0.0028	0.0028	0.0028	0.0026		0.0025				0.0019	0.0022		0.0019
pH-F	pH Units	6.98	7	6.91	6.94	6.93	7.16	7.05	7.06	7.06		7.06	7.07	7.12	6.96
Cond-F	uS/cm	1486	1489	1545	1582	1566	1574	1566	1474	1474		1539	1650	1546	1524
H2S	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020
SO4-D	mg/L	490	500	560	540	600	590	550	570	580		540	580	610	520
TSS	mg/L						5.2					4.0			
Alk-T	mg/L						260					270			
Acidity83	mg/L						1.2					<1.0			
Al-T	mg/L						<0.0030					<0.0030			
As-T	mg/L						0.00238					0.00204			
Ba-T	mg/L						0.0191					0.0188			
B-T	mg/L						0.665					0.716			
Cd-T	mg/L						<0.000010					<0.000010			
Ca-T	mg/L						221					214			
Cr-T	mg/L						<0.0010					<0.0010			
Co-T	mg/L						0.00096					0.00090			
Cu-T	mg/L						<0.00050					<0.00050			
Hard-T	mg/L						618					597			
Fe-T	mg/L						2.17					2.01			
Pb-T	mg/L						<0.00020					<0.00020			
Mg-T	mg/L						15.9					15.1			
Mn-T	mg/L						0.315					0.293			
Mo-T	mg/L						<0.0010					<0.0010			
Ni-T	mg/L						0.0013					0.0013			
K-T	mg/L						1.79					1.76			
S-T	mg/L						207					194			
Se-T	mg/L						<0.00010					<0.00010			
Si-T	mg/L						2.78					2.79			
Ag-T	mg/L						<0.000020					<0.000020			
Na-T	mg/L						100					97.2			
Sr-T	mg/L						2.24					2.14			
Zn-T	mg/L						<0.0050					<0.0050			
Al-D	mg/L						<0.0030					<0.0030			
As-D	mg/L						0.00238					0.00209			
Ba-D	mg/L						0.0199					0.0202			
B-D	mg/L						0.667					0.773			
Be-D	mg/L						<0.00010					<0.00010			
Cd-D	mg/L						<0.000010					<0.000010			
Ca-D	mg/L						230					235			
Cr-D	mg/L						<0.0010					<0.0010			
Co-D	mg/L						0.00099					0.00096			
Cu-D	mg/L						<0.00020					<0.00020			
Hard-D	mg/L						642					661			
Fe-D	mg/L						1.90					1.90			
Pb-D	mg/L						<0.00020					<0.00020			
Mg-D	mg/L						16.2					17.7			
Mn-D	mg/L						0.323					0.321			
Mo-D	mg/L						<0.0010					<0.0010			
Ni-D	mg/L						0.0013					0.0013			
K-D	mg/L						1.91					1.85			
S-D	mg/L						208					213			
Se-D	mg/L						<0.00010					0.00016			
Si-D	mg/L						3.14					3.02			
Na-D	mg/L						102					113			
Sr-D	mg/L						2.07					2.33			
Zn-D	mg/L						<0.0050					<0.0050			

Appendix 1 - Tables

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description																	
Site Name INF																	
Date		2025-10-01	2025-10-06	2025-10-17	2025-10-20	2025-10-27	2025-11-03	2025-11-17	2025-11-24	2025-12-01	2025-12-08	2025-12-15	2025-12-22	2025-12-30	2026-01-05	2026-01-12	2026-01-19
Flow	m ³ /s	0.002			0.0015	0.0019	0.0019		0.0013	0.0012	0.0011	0.0012	0.0011		0.001	0.001	
pH-F	pH Units	7.25	7.03		7.25	7.02	7.11	7.16	7.2	7.09	7.12	7.16	7.2	7.18	6.99	7.15	7.27
Cond-F	uS/cm	1490	1555		1424	1435	1366	1344	1395	1434	1392	1302	1390	1422	1376	1312	1362
H2S	mg/L	<0.0020	<0.0020	<0.0020	0.087	<0.0020	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
SO4-D	mg/L	520	600	450	390	500	480		480	510	480	420	470	460	440	410	440
TSS	mg/L	4.8					4.8			4.4					4.4		
Alk-T	mg/L	270					260			250					250		
Acidity83	mg/L	<1.0					1.9			3					1.4		
Al-T	mg/L	<0.0030					0.0103			<0.0030					<0.0030		
As-T	mg/L	0.00247					0.00264			0.00234					0.0024		
Ba-T	mg/L	0.0174					0.0162			0.016					0.0178		
B-T	mg/L	0.633					0.564			0.69					0.637		
Cd-T	mg/L	<0.000010					<0.000010			<0.000010					<0.000010		
Ca-T	mg/L	190					188			192					194		
Cr-T	mg/L	<0.0010					<0.0010			<0.0010					<0.0010		
Co-T	mg/L	0.00071					0.00089			0.00049					0.00042		
Cu-T	mg/L	<0.00050					<0.00050			<0.00050					<0.00050		
Hard-T	mg/L	536					519			539					537		
Fe-T	mg/L	2.37					2.07			2.32					2.38		
Pb-T	mg/L	<0.00020					<0.00020			<0.00020					<0.00020		
Mg-T	mg/L	14.6					12.1			14.2					12.7		
Mn-T	mg/L	0.288					0.268			0.262					0.243		
Mo-T	mg/L	<0.0010					<0.0010			<0.0010					<0.0010		
Ni-T	mg/L	<0.0010					0.0014			<0.0010					<0.0010		
K-T	mg/L	1.69					1.49			1.68					1.64		
S-T	mg/L	188					165			178					165		
Se-T	mg/L	<0.00010					<0.00010			<0.00010					<0.00010		
Si-T	mg/L	2.65					2.69			2.82					3.08		
Ag-T	mg/L	<0.000020					<0.000020			<0.000020					<0.000020		
Na-T	mg/L	92.0					83.9			93.6					96.1		
Sr-T	mg/L	2.02					1.79			1.84					1.85		
Zn-T	mg/L	<0.0050					<0.0050			<0.0050					<0.0050		
Al-D	mg/L	<0.0030					<0.0030			<0.0030					<0.0030		
As-D	mg/L	0.00234					0.00272			0.00233					0.00204		
Ba-D	mg/L	0.0181					0.0183			0.0167					0.0171		
B-D	mg/L	0.820					0.686			0.737					0.779		
Be-D	mg/L	<0.00010					<0.00010			<0.00010					<0.00010		
Cd-D	mg/L	<0.000010					<0.000010			<0.000010					<0.000010		
Ca-D	mg/L	230					220			209					197		
Cr-D	mg/L	<0.0010					<0.0010			<0.0010					<0.0010		
Co-D	mg/L	0.00083					0.00104			0.00052					0.0004		
Cu-D	mg/L	<0.00020					<0.00020			<0.00020					<0.00020		
Hard-D	mg/L	640					612			585					552		
Fe-D	mg/L	2.09					2.3			1.94					1.55		
Pb-D	mg/L	<0.00020					<0.00020			<0.00020					<0.00020		
Mg-D	mg/L	16.3					15.1			15.2					14.7		
Mn-D	mg/L	0.329					0.321			0.29					0.245		
Mo-D	mg/L	<0.0010					<0.0010			<0.0010					<0.0010		
Ni-D	mg/L	0.0011					0.0017			<0.0010					<0.0010		
K-D	mg/L	1.88					1.79			1.84					1.76		
S-D	mg/L	196					188			199					185		
Se-D	mg/L	<0.00010					<0.00010			<0.00010					0.00036		
Si-D	mg/L	3.06					3.25			3.02					3		
Na-D	mg/L	105					105			107					112		
Sr-D	mg/L	1.99					1.95			1.9					1.8		
Zn-D	mg/L	<0.0050					<0.0050			<0.0050					<0.0050		

Appendix 1 - Tables

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description										
Site Name		INF								
Date		2026-01-26	2026-02-02	2026-02-09	2026-02-17	2026-02-23	2026-03-02	2026-03-09	2026-03-16	2026-03-23
Flow	m3/s	0.0013	0.0013	0.0009	0.0008		0.0011	0.001	0.0009	0.0009
pH-F	pH Units	7.27	7.12	6.9	7.42	7.6	6.96	7.26	7.04	7.14
Cond-F	uS/cm	1414	1227	1322	1528	1242	1400	1364	1351	1358
H2S	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0046	<0.0020	<0.0020	<0.0020	<0.0020
SO4-D	mg/L	480	440	450	480	350	430	440	450	410
TSS	mg/L		4.8				3.6			
Alk-T	mg/L		230				240			
Acidity ⁸³	mg/L		4.4				5.3			
Al-T	mg/L		0.0131				0.0037			
As-T	mg/L		0.00308				0.00225			
Ba-T	mg/L		0.0172				0.0171			
B-T	mg/L		0.595				0.718			
Cd-T	mg/L		<0.000010				<0.000010			
Ca-T	mg/L		161				169			
Cr-T	mg/L		<0.0010				<0.0010			
Co-T	mg/L		0.00063				0.00054			
Cu-T	mg/L		<0.00050				<0.00050			
Hard-T	mg/L		447				471			
Fe-T	mg/L		2.38				1.97			
Pb-T	mg/L		<0.00020				<0.00020			
Mg-T	mg/L		10.9				11.9			
Mn-T	mg/L		0.183				0.223			
Mo-T	mg/L		<0.0010				<0.0010			
Ni-T	mg/L		0.0011				<0.0010			
K-T	mg/L		1.6				1.57			
S-T	mg/L		158				158			
Se-T	mg/L		<0.00010				<0.00010			
Si-T	mg/L		2.86				3			
Ag-T	mg/L		<0.000020				<0.000020			
Na-T	mg/L		85.3				98.4			
Sr-T	mg/L		1.56				1.61			
Zn-T	mg/L		<0.0050				<0.0050			
Al-D	mg/L		<0.0030				<0.0030			
As-D	mg/L		0.00067				0.00123			
Ba-D	mg/L		0.0162				0.0175			
B-D	mg/L		0.558				0.724			
Be-D	mg/L		<0.00010				<0.00010			
Cd-D	mg/L		<0.000010				<0.000010			
Ca-D	mg/L		174				171			
Cr-D	mg/L		<0.0010				<0.0010			
Co-D	mg/L		0.00065				0.00058			
Cu-D	mg/L		<0.00020				<0.00020			
Hard-D	mg/L		479				477			
Fe-D	mg/L		0.282				1.3			
Pb-D	mg/L		<0.00020				<0.00020			
Mg-D	mg/L		10.6				12			
Mn-D	mg/L		0.192				0.234			
Mo-D	mg/L		<0.0010				<0.0010			
Ni-D	mg/L		0.0011				<0.0010			
K-D	mg/L		1.45				1.67			
S-D	mg/L		146				157			
Se-D	mg/L		<0.00010				<0.00010			
Si-D	mg/L		3.01				3.05			
Na-D	mg/L		84.8				101			
Sr-D	mg/L		1.57				1.62			
Zn-D	mg/L		<0.0050				<0.0050			

Table 13 PTS Biochemical Reactor Cell 1 Page(s)

PassiveTreatment System Biochemical Reactor Cell																	
Site Description																	
Site Name	BCR																
Date		2025-04-01	2025-04-14	2025-04-14	2025-04-22	2025-04-28	2025-05-05	2025-05-12	2025-05-20	2025-05-26	2025-06-02	2025-06-09	2025-06-16	2025-06-23	2025-07-02	2025-07-14	2025-07-21
pH-F	pH Units	7.2	6.01	6.93	7.11	7.07	7.12	7.34	7.29	7.17	7.24	7.17	6.96	7.05	7.18	6.95	6.95
Cond-F	uS/cm	1247	59.3	1260	1323	1334	1257	1334	1349	1374	1322	1375	1393	1369	1443	1456	1402
H2S	mg/L	11		16	17	18	23	26	25	25	25	32	31	32	23	25	32
SO4-D	mg/L	380		400	410	420	380	400	410	460	430	400	390	420	450	410	460
TSS	mg/L	<1.0					<1.0				1.2				2.0		
Alk-T	mg/L	230					270				290				320		
Acidity83	mg/L	3.3					11.3				3.1				<1.0		
Al-T	mg/L	0.0036					0.0045				0.0052				0.0056		
As-T	mg/L	<0.00010					<0.00010				<0.00010				<0.00010		
Ba-T	mg/L	0.0151					0.0176				0.0218				0.0217		
B-T	mg/L	0.477					0.582				0.684				0.609		
Cd-T	mg/L	<0.000010					<0.000010				<0.000010				0.000041		
Ca-T	mg/L	162					170				208				199		
Cr-T	mg/L	<0.0010					<0.0010				<0.0010				<0.0010		
Co-T	mg/L	<0.00020					<0.00020				<0.00020				<0.00020		
Cu-T	mg/L	<0.00050					<0.00050				<0.00050				<0.00050		
Hard-T	mg/L	450					468				578				554		
Fe-T	mg/L	<0.010					<0.010				<0.010				<0.010		
Pb-T	mg/L	<0.00020					<0.00020				<0.00020				<0.00020		
Mg-T	mg/L	10.8					10.8				14.6				13.8		
Mn-T	mg/L	0.131					0.125				0.149				0.154		
Mo-T	mg/L	<0.0010					<0.0010				<0.0010				<0.0010		
Ni-T	mg/L	<0.0010					<0.0010				<0.0010				<0.0010		
K-T	mg/L	1.41					1.54				1.86				1.73		
S-T	mg/L	128					138				171				144		
Se-T	mg/L	<0.00010					<0.00010				<0.00010				<0.00010		
Si-T	mg/L	2.61					3.25				3.39				3.56		
Ag-T	mg/L	<0.000020					<0.000020				<0.000020				<0.000020		
Na-T	mg/L	77.6					81.5				92.9				92.6		
Sr-T	mg/L	1.45					1.61				2.20				1.88		
Zn-T	mg/L	<0.0050					<0.0050				<0.0050				<0.0050		
Al-D	mg/L	0.00308					0.00412				0.0064				0.0042		
As-D	mg/L	0.000054					0.000065				<0.00020				<0.00010		
Ba-D	mg/L	0.0165					0.0185				0.0205				0.0233		
B-D	mg/L	0.548					0.662				0.64				0.644		
Be-D	mg/L	<0.000010					<0.000010				<0.00020				<0.00010		
Cd-D	mg/L	<0.0000050					<0.0000050				<0.000020				<0.000010		
Ca-D	mg/L	170					177				195				192		
Cr-D	mg/L	<0.00010					<0.00010				<0.0020				<0.0010		
Co-D	mg/L	0.0000152					0.0000240				<0.00040				<0.00020		
Cu-D	mg/L	<0.000050					<0.000050				<0.00040				<0.00020		
Hard-D	mg/L	472					492				543				538		
Fe-D	mg/L	0.0032					<0.0010				0.014				<0.0050		
Pb-D	mg/L	<0.0000050					<0.0000050				<0.00040				<0.00020		
Mg-D	mg/L	11.5					11.9				13.6				14.1		
Mn-D	mg/L	0.144					0.140				0.145				0.169		
Mo-D	mg/L	<0.000050					<0.000050				<0.0020				<0.0010		
Ni-D	mg/L	0.000033					<0.000020				<0.0020				<0.0010		
K-D	mg/L	1.63					1.71				1.69				1.82		
S-D	mg/L	152					154				286				232		
Se-D	mg/L	0.00197					0.00233				0.0308				0.0127		
Si-D	mg/L	2.79					3.43				3.28				3.61		
Na-D	mg/L	82.2					88.8				95.8				90.5		
Sr-D	mg/L	1.63					1.67				2.01				2.19		
Zn-D	mg/L	0.00017					<0.00010				<0.010				<0.0050		

Appendix 1 - Tables

Table 13 PTS Biochemical Reactor Cell 1 Page(s)

Site Description												
Site Name		BCR										
Date		2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-25	2025-09-02	2025-09-08	2025-09-15	2025-09-22	2025-10-01	2025-10-06
pH-F	pH Units	6.99	7.13	7.04	7.07	6.99	7.04	6.85	7.04	7.03	7.15	7.18
Cond-F	uS/cm	1392	1413	1486	1436	1449	1456	1560	1428	1426	1415	1397
H2S	mg/L	27	43	27	23	20	43	24	29	18	14	16
SO4-D	mg/L	460	430	440	480	490	450	400	470	470	470	490
TSS	mg/L		4.0				<1.0				<1.0	
Alk-T	mg/L		370				370				310	
Acidity ⁸³	mg/L		<1.0				<1.0				<1.0	
Al-T	mg/L		0.0059				0.0058				0.0046	
As-T	mg/L		0.00015				0.00014				<0.00010	
Ba-T	mg/L		0.0235				0.0231				0.0213	
B-T	mg/L		0.681				0.687				0.608	
Cd-T	mg/L		<0.000010				<0.000010				<0.000010	
Ca-T	mg/L		200				194				181	
Cr-T	mg/L		<0.0010				<0.0010				<0.0010	
Co-T	mg/L		<0.00020				<0.00020				<0.00020	
Cu-T	mg/L		<0.00050				<0.00050				<0.00050	
Hard-T	mg/L		561				546				516	
Fe-T	mg/L		<0.010				<0.010				<0.010	
Pb-T	mg/L		<0.00020				<0.00020				<0.00020	
Mg-T	mg/L		14.7				14.6				15.3	
Mn-T	mg/L		0.169				0.170				0.187	
Mo-T	mg/L		<0.0010				<0.0010				<0.0010	
Ni-T	mg/L		<0.0010				<0.0010				<0.0010	
K-T	mg/L		1.88				1.82				1.75	
S-T	mg/L		147				143				161	
Se-T	mg/L		<0.00010				<0.00010				<0.00010	
Si-T	mg/L		3.92				3.75				3.29	
Ag-T	mg/L		<0.000020				<0.000020				<0.000020	
Na-T	mg/L		97.5				96.5				95.6	
Sr-T	mg/L		2.12				2.06				1.98	
Zn-T	mg/L		<0.0050				<0.0050				<0.0050	
Al-D	mg/L		0.0065				<0.0060				<0.0060	
As-D	mg/L		0.00022				<0.00020				<0.00020	
Ba-D	mg/L		0.0250				0.0264				0.0217	
B-D	mg/L		0.72				0.85				0.75	
Be-D	mg/L		<0.00020				<0.00020				<0.00020	
Cd-D	mg/L		<0.000020				<0.000020				<0.000020	
Ca-D	mg/L		213				211				207	
Cr-D	mg/L		<0.0020				<0.0020				<0.0020	
Co-D	mg/L		<0.00040				<0.00040				<0.00040	
Cu-D	mg/L		<0.00040				<0.00040				<0.00040	
Hard-D	mg/L		600				595				585	
Fe-D	mg/L		<0.010				<0.010				<0.010	
Pb-D	mg/L		<0.00040				<0.00040				<0.00040	
Mg-D	mg/L		16.3				16.6				16.9	
Mn-D	mg/L		0.178				0.201				0.214	
Mo-D	mg/L		<0.0020				<0.0020				<0.0020	
Ni-D	mg/L		<0.0020				<0.0020				<0.0020	
K-D	mg/L		1.89				1.97				1.89	
S-D	mg/L		331				249				196	
Se-D	mg/L		0.0412				0.00772				0.0318	
Si-D	mg/L		4.47				4.54				3.64	
Na-D	mg/L		106				106				106	
Sr-D	mg/L		2.03				2.29				1.85	
Zn-D	mg/L		<0.010				<0.010				<0.010	

Appendix 1 - Tables

Table 13 PTS Biochemical Reactor Cell 1 Page(s)

Site Description												
Site Name		BCR										
Date		2025-10-14	2025-10-27	2025-11-03	2025-11-10	2025-11-17	2025-11-24	2025-12-08	2025-12-15	2025-12-22	2026-01-05	2026-01-12
pH-F	pH Units	7.15	7.14	7.2	7.2	7.42	7.11	7.18	7.22	7.2	7.06	7.2
Cond-F	uS/cm	1391	1315	1311	1281	1242	1237	1230	1311	1290	1272	1241
H2S	mg/L	20	23	24	27	23	27	22	26	25	31	25
SO4-D	mg/L	460	380	370	380	340	360	370	370	380	200	330
TSS	mg/L			<1.0							<1.0	
Alk-T	mg/L			350							210	
Acidity83	mg/L			3.5							1.1	
Al-T	mg/L			0.0037							0.0043	
As-T	mg/L			0.00014							0.00014	
Ba-T	mg/L			0.0182							0.0171	
B-T	mg/L			0.489							0.513	
Cd-T	mg/L			<0.000010							<0.000010	
Ca-T	mg/L			179							173	
Cr-T	mg/L			<0.0010							<0.0010	
Co-T	mg/L			<0.00020							<0.00020	
Cu-T	mg/L			<0.00050							<0.00050	
Hard-T	mg/L			504							488	
Fe-T	mg/L			<0.010							<0.010	
Pb-T	mg/L			<0.00020							<0.00020	
Mg-T	mg/L			13.7							13.2	
Mn-T	mg/L			0.17							0.162	
Mo-T	mg/L			<0.0010							<0.0010	
Ni-T	mg/L			<0.0010							<0.0010	
K-T	mg/L			1.52							1.46	
S-T	mg/L			132							122	
Se-T	mg/L			<0.00010							<0.00010	
Si-T	mg/L			3.25							3.68	
Ag-T	mg/L			<0.000020							<0.000020	
Na-T	mg/L			89.2							88.2	
Sr-T	mg/L			1.84							1.65	
Zn-T	mg/L			<0.0050							<0.0050	
Al-D	mg/L			<0.0060							0.0035	
As-D	mg/L			<0.00020							0.00014	
Ba-D	mg/L			0.0195							0.0169	
B-D	mg/L			0.62							0.639	
Be-D	mg/L			<0.00020							<0.00010	
Cd-D	mg/L			<0.000020							<0.000010	
Ca-D	mg/L			206							168	
Cr-D	mg/L			<0.0020							<0.0010	
Co-D	mg/L			<0.00040							<0.00020	
Cu-D	mg/L			<0.00040							<0.00020	
Hard-D	mg/L			586							474	
Fe-D	mg/L			<0.010							<0.0050	
Pb-D	mg/L			<0.00040							<0.00020	
Mg-D	mg/L			17.3							13	
Mn-D	mg/L			0.189							0.17	
Mo-D	mg/L			<0.0020							<0.0010	
Ni-D	mg/L			<0.0020							<0.0010	
K-D	mg/L			1.79							1.52	
S-D	mg/L			157							358	
Se-D	mg/L			0.00281							0.0162	
Si-D	mg/L			3.89							3.76	
Na-D	mg/L			105							87.4	
Sr-D	mg/L			1.89							1.65	
Zn-D	mg/L			<0.010							<0.0050	

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Table 13 PTS Biochemical Reactor Cell 1 Page(s)

Site Description										
Site Name	BCR									
Date		2026-01-19	2026-01-26	2026-02-02	2026-02-02	2026-02-17	2026-02-23	2026-03-02	2026-03-09	2026-03-23
pH-F	pH Units	7.26	7.26	7.1		7.15	7.23	6.79	7.24	7.16
Cond-F	uS/cm	1257	1274	1209		1441	1342	1323	1210	1230
H2S	mg/L	25	25		30	25	25	0.0082	33	32
SO4-D	mg/L	350	350		360	340	320	330	320	330
TSS	mg/L				<1.0			<1.0		
Alk-T	mg/L				320			320		
Acidity83	mg/L				7.1			7.9		
Al-T	mg/L				0.0044			0.0047		
As-T	mg/L				0.00015			0.00014		
Ba-T	mg/L				0.0155			0.0162		
B-T	mg/L				0.475			0.593		
Cd-T	mg/L				<0.000010			<0.000010		
Ca-T	mg/L				160			172		
Cr-T	mg/L				<0.0010			<0.0010		
Co-T	mg/L				<0.00020			<0.00020		
Cu-T	mg/L				<0.00050			<0.00050		
Hard-T	mg/L				451			483		
Fe-T	mg/L				<0.010			<0.010		
Pb-T	mg/L				<0.00020			<0.00020		
Mg-T	mg/L				12.6			13.2		
Mn-T	mg/L				0.141			0.15		
Mo-T	mg/L				<0.0010			<0.0010		
Ni-T	mg/L				<0.0010			<0.0010		
K-T	mg/L				1.5			1.54		
S-T	mg/L				122			119		
Se-T	mg/L				<0.00010			<0.00010		
Si-T	mg/L				3.44			3.87		
Ag-T	mg/L				<0.000020			<0.000020		
Na-T	mg/L				79.2			89.1		
Sr-T	mg/L				1.52			1.62		
Zn-T	mg/L				<0.0050			<0.0050		
Al-D	mg/L				<0.0060			<0.0060		
As-D	mg/L				<0.00020			<0.00020		
Ba-D	mg/L				0.0162			0.0162		
B-D	mg/L				0.55			0.58		
Be-D	mg/L				<0.00020			<0.00020		
Cd-D	mg/L				<0.000020			<0.000020		
Ca-D	mg/L				159			177		
Cr-D	mg/L				<0.0020			<0.0020		
Co-D	mg/L				<0.00040			<0.00040		
Cu-D	mg/L				<0.00040			<0.00040		
Hard-D	mg/L				450			494		
Fe-D	mg/L				<0.010			<0.010		
Pb-D	mg/L				<0.00040			<0.00040		
Mg-D	mg/L				12.9			12.5		
Mn-D	mg/L				0.148			0.143		
Mo-D	mg/L				<0.0020			<0.0020		
Ni-D	mg/L				<0.0020			<0.0020		
K-D	mg/L				1.5			1.48		
S-D	mg/L				238			290		
Se-D	mg/L				0.00805			0.0137		
Si-D	mg/L				3.6			3.83		
Na-D	mg/L				83.4			87.2		
Sr-D	mg/L				1.66			1.55		
Zn-D	mg/L				<0.010			<0.010		

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Table 14 PTS Sulphide Polishing Cell 1 Page(s)

Passive Treatment System Sulphide Polishing Cell												
Site Description		SPCEFF										
Site Name	SPCEFF											
Date		2025-04-01	2025-04-22	2025-04-28	2025-05-12	2025-05-20	2025-06-02	2025-06-09	2025-06-16	2025-06-23	2025-07-07	2025-07-14
pH-F	pH Units	8.04	7.67	7.72	7.02	7.65	7.57	7.4	7.42	7.54	7.6	7.47
Cond-F	uS/cm	1167	1254	1264	1171	1096	1146	1234	1241	1391	1156	1132
H2S	mg/L	0.0026	0.0053	<0.0020	<0.0020	0.0022	<0.0020	0.022	0.055	0.0038	0.0020	<0.0020
SO4-D	mg/L	330	350	350	310	300	310	370	350	350	340	320
TSS	mg/L	1.6					2.0					
Alk-T	mg/L	290					290					
Acidity83	mg/L	<1.0					<1.0					
Al-T	mg/L	0.0176					0.0081					
As-T	mg/L	0.00075					0.00099					
Ba-T	mg/L	0.0236					0.0236					
B-T	mg/L	0.439					0.718					
Cd-T	mg/L	<0.000010					<0.000010					
Ca-T	mg/L	167					166					
Cr-T	mg/L	<0.0010					<0.0010					
Co-T	mg/L	<0.00020					<0.00020					
Cu-T	mg/L	0.00119					0.00429					
Hard-T	mg/L	468					475					
Fe-T	mg/L	0.482					0.229					
Pb-T	mg/L	0.00026					<0.00020					
Mg-T	mg/L	12.3					14.5					
Mn-T	mg/L	0.0465					0.0131					
Mo-T	mg/L	<0.0010					<0.0010					
Ni-T	mg/L	<0.0010					<0.0010					
K-T	mg/L	1.36					1.45					
S-T	mg/L	118					128					
Se-T	mg/L	<0.00010					<0.00010					
Si-T	mg/L	2.23					0.86					
Ag-T	mg/L	<0.000020					<0.000020					
Na-T	mg/L	77.1					92.3					
Sr-T	mg/L	1.56					2.01					
Zn-T	mg/L	<0.0050					<0.0050					
Al-D	mg/L	0.00344					0.0040					
As-D	mg/L	0.000478					0.00085					
Ba-D	mg/L	0.0228					0.0210					
B-D	mg/L	0.474					0.592					
Be-D	mg/L	<0.000010					<0.000010					
Cd-D	mg/L	<0.0000050					<0.000010					
Ca-D	mg/L	176					158					
Cr-D	mg/L	<0.00010					<0.0010					
Co-D	mg/L	0.000144					<0.00020					
Cu-D	mg/L	0.000277					0.00265					
Hard-D	mg/L	492					450					
Fe-D	mg/L	0.0573					0.110					
Pb-D	mg/L	<0.0000050					<0.00020					
Mg-D	mg/L	12.8					13.4					
Mn-D	mg/L	0.0433					0.0109					
Mo-D	mg/L	0.000068					<0.0010					
Ni-D	mg/L	0.000070					<0.0010					
K-D	mg/L	1.52					1.30					
S-D	mg/L	130					120					
Se-D	mg/L	0.000082					<0.00010					
Si-D	mg/L	2.34					0.81					
Na-D	mg/L	79.0					83.9					
Sr-D	mg/L	1.73					1.80					
Zn-D	mg/L	0.00186					<0.0050					

Table 14 PTS Sulphide Polishing Cell 1 Page(s)

Site Description														
Site Name		SPCEFF												
Date		2025-07-28	2025-08-11	2025-08-18	2025-09-02	2025-09-08	2025-09-15	2025-09-22	2025-09-22	2025-10-01	2025-10-06	2025-10-14	2025-10-27	2025-11-03
pH-F	pH Units	7.52	7.69	7.64	7.6	7.62		7.4	7.4	7.53	7.57	7.37	7.51	7.59
Cond-F	uS/cm	1106	1112	1036	984	1050		1275	1275	1275	1238	1259	1064	1110
H2S	mg/L	0.0078	0.0051	0.0038	0.0042	0.0033	<0.0020	5.7	4.7	0.16	0.0052	0.048	0.031	0.054
SO4-D	mg/L	320	300	280	240	220	210	350	340	390	410	420	320	320
TSS	mg/L				1.2					1.2				<1.0
Alk-T	mg/L				320					310				260
Acidity83	mg/L				<1.0					<1.0				<1.0
Al-T	mg/L				0.0246					0.0080				0.0079
As-T	mg/L				0.00121					0.00108				0.00063
Ba-T	mg/L				0.0231					0.0300				0.0188
B-T	mg/L				0.874					0.620				0.421
Cd-T	mg/L				<0.000010					<0.000010				<0.000010
Ca-T	mg/L				95.2					168				140
Cr-T	mg/L				<0.0010					<0.0010				<0.0010
Co-T	mg/L				<0.00020					<0.00020				<0.00020
Cu-T	mg/L				0.00333					<0.00050				<0.00050
Hard-T	mg/L				290					480				392
Fe-T	mg/L				0.155					0.108				0.163
Pb-T	mg/L				0.00082					0.00129				0.00077
Mg-T	mg/L				12.8					14.7				10.5
Mn-T	mg/L				0.0070					0.172				0.0976
Mo-T	mg/L				<0.0010					<0.0010				<0.0010
Ni-T	mg/L				<0.0010					<0.0010				<0.0010
K-T	mg/L				1.57					1.94				1.27
S-T	mg/L				76.3					146				111
Se-T	mg/L				<0.00010					<0.00010				<0.00010
Si-T	mg/L				1.99					3.45				2.44
Ag-T	mg/L				<0.000020					<0.000020				<0.000020
Na-T	mg/L				99.5					93.3				68.8
Sr-T	mg/L				1.60					1.94				1.45
Zn-T	mg/L				0.0057					<0.0050				<0.0050
Al-D	mg/L				0.0064					<0.0030				<0.0030
As-D	mg/L				0.00122					0.00090				0.00042
Ba-D	mg/L				0.0231					0.0283				0.0206
B-D	mg/L				0.965					0.747				0.53
Be-D	mg/L				<0.00010					<0.00010				<0.00010
Cd-D	mg/L				<0.000010					<0.000010				<0.000010
Ca-D	mg/L				110					192				160
Cr-D	mg/L				<0.0010					<0.0010				<0.0010
Co-D	mg/L				<0.00020					<0.00020				<0.00020
Cu-D	mg/L				0.00129					<0.00020				<0.00020
Hard-D	mg/L				338					542				454
Fe-D	mg/L				0.0681					0.0716				0.0218
Pb-D	mg/L				<0.00020					<0.00020				<0.00020
Mg-D	mg/L				15.7					15.2				13.5
Mn-D	mg/L				0.0049					0.185				0.118
Mo-D	mg/L				<0.0010					<0.0010				<0.0010
Ni-D	mg/L				<0.0010					<0.0010				<0.0010
K-D	mg/L				1.73					1.97				1.63
S-D	mg/L				90.5					150				128
Se-D	mg/L				0.00017					0.00021				<0.00010
Si-D	mg/L				2.31					3.91				2.94
Na-D	mg/L				122					99.3				87.4
Sr-D	mg/L				1.81					1.83				1.58
Zn-D	mg/L				<0.0050					<0.0050				<0.0050

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Table 14 PTS Sulphide Polishing Cell 1 Page(s)

Site Description																			
Site Name SPCEFF																			
Date		2025-11-10	2025-11-17	2025-11-24	2025-12-01	2025-12-08	2025-12-15	2025-12-30	2026-01-12	2026-01-19	2026-01-26	2026-02-02	2026-02-09	2026-02-17	2026-02-23	2026-03-02	2026-03-09	2026-03-16	2026-03-23
pH-F	pH Units	7.9	7.47	7.41	7.44	7.84	7.86	7.43	7.92	7.46	7.47	7.71	7.41	7.93	7.66	7.48	7.88	7.7	7.88
Cond-F	uS/cm	1005	1147	1142	1127	950	947	1064	307	1012	1091	796	850	1011	794	926	842	800	811
H2S	mg/L	0.11	1.3	0.089	0.055	0.0074	0.034	0.0073	0.016	0.11	0.059	0.013	<0.0020	0.0028	<0.0020	35	0.0077	0.0028	0.01
SO4-D	mg/L	300	310	320	310	260	250	270	76	250	270	200	210	200	100	190	180	170	180
TSS	mg/L				1.6							<1.0				<1.0			
Alk-T	mg/L				300							230				260			
Acidity83	mg/L				1.3							<1.0				<1.0			
Al-T	mg/L				0.0099							0.0055				0.0072			
As-T	mg/L				0.00056							0.00038				0.00031			
Ba-T	mg/L				0.0191							0.0135				0.0154			
B-T	mg/L				0.505							0.319				0.377			
Cd-T	mg/L				<0.000010							<0.000010				<0.000010			
Ca-T	mg/L				152							97.4				110			
Cr-T	mg/L				<0.0010							<0.0010				<0.0010			
Co-T	mg/L				<0.00020							<0.00020				<0.00020			
Cu-T	mg/L				<0.00050							<0.00050				0.00075			
Hard-T	mg/L				431							277				314			
Fe-T	mg/L				0.201							0.086				0.1			
Pb-T	mg/L				<0.00020							<0.00020				<0.00020			
Mg-T	mg/L				12.6							8.22				9.54			
Mn-T	mg/L				0.0964							0.051				0.0071			
Mo-T	mg/L				<0.0010							<0.0010				<0.0010			
Ni-T	mg/L				<0.0010							<0.0010				<0.0010			
K-T	mg/L				1.63							1.23				1.2			
S-T	mg/L				113							68.1				64.3			
Se-T	mg/L				<0.00010							<0.00010				<0.00010			
Si-T	mg/L				3.28							2.34				2.37			
Ag-T	mg/L				<0.000020							<0.000020				<0.000020			
Na-T	mg/L				81.5							53				61.1			
Sr-T	mg/L				1.49							0.966				1.1			
Zn-T	mg/L				<0.0050							<0.0050				<0.0050			
Al-D	mg/L				<0.0030							<0.0030				0.024			
As-D	mg/L				0.0005							0.00035				0.00029			
Ba-D	mg/L				0.0196							0.0139				0.0153			
B-D	mg/L				0.52							0.319				0.403			
Be-D	mg/L				<0.00010							<0.00010				<0.00010			
Cd-D	mg/L				<0.000010							<0.000010				<0.000010			
Ca-D	mg/L				156							106				111			
Cr-D	mg/L				<0.0010							<0.0010				<0.0010			
Co-D	mg/L				<0.00020							<0.00020				<0.00020			
Cu-D	mg/L				<0.00020							<0.00020				0.0004			
Hard-D	mg/L				446							298				316			
Fe-D	mg/L				0.0252							0.0177				0.0901			
Pb-D	mg/L				<0.00020							<0.00020				<0.00020			
Mg-D	mg/L				13.9							8.05				9.56			
Mn-D	mg/L				0.104							0.0609				0.0068			
Mo-D	mg/L				<0.0010							<0.0010				<0.0010			
Ni-D	mg/L				<0.0010							<0.0010				<0.0010			
K-D	mg/L				1.69							1.14				1.2			
S-D	mg/L				121							63.2				67.6			
Se-D	mg/L				<0.00010							<0.00010				0.00019			
Si-D	mg/L				3.29							2.58				2.41			
Na-D	mg/L				93.7							52.4				62.5			
Sr-D	mg/L				1.51							1.06				1.07			
Zn-D	mg/L				<0.0050							<0.0050				<0.0050			

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Table 15 2 South Pit Inflow 3 Page(s)

Site Description		2 South Pit Inflow															
Site Name	2SI																
Date		2025-04-01	2025-04-07	2025-04-14	2025-04-22	2025-04-27	2025-05-05	2025-05-12	2025-05-20	2025-05-26	2025-06-02	2025-06-09	2025-06-16	2025-06-23	2025-07-02	2025-07-07	
pH-F	pH Units	7.84	7.78	7.63	7.83		8.11	7.97	8.01	7.94	8.02	7.83	7.83	7.81	7.89	8.02	7.92
Cond-F	uS/cm	858	935	1020	1134		1112	1168	1159	1196	1194	1277	1277	1321	1275	1332	1342
H2S	mg/L		0.040	0.028	0.056	32	0.042	0.058	0.093	0.077	0.035	0.012	0.016	0.022	0.029	0.026	0.022
SO4-D	mg/L	280	300	320	350	280	370	360	360	390	390	400	420	380	390	420	440
TSS	mg/L						2.0				2.0					2.4	
Alk-T	mg/L						230				260					270	
Acidity83	mg/L						1.1				<1.0					<1.0	
Al-T	mg/L	0.0076					0.0038				0.0042					<0.0030	
As-T	mg/L	0.00015					0.00038				0.00047					0.00052	
Ba-T	mg/L	0.0116					0.0177				0.0226					0.0239	
B-T	mg/L	0.274					0.517				0.637					0.613	
Cd-T	mg/L	<0.000010					<0.000010				<0.000010					<0.000010	
Ca-T	mg/L	108					152				191					186	
Cr-T	mg/L	<0.0010					<0.0010				<0.0010					<0.0010	
Co-T	mg/L	<0.00020					0.00022				0.00026					0.00025	
Cu-T	mg/L	<0.00050					<0.00050				<0.00050					<0.00050	
Hard-T	mg/L	309					426				536					523	
Fe-T	mg/L	0.158					0.379				0.370					0.489	
Pb-T	mg/L	<0.00020					<0.00020				<0.00020					<0.00020	
Mg-T	mg/L	9.38					11.3				14.5					14.2	
Mn-T	mg/L	0.141					0.201				0.288					0.329	
Mo-T	mg/L	<0.0010					<0.0010				<0.0010					<0.0010	
Ni-T	mg/L	<0.0010					<0.0010				<0.0010					<0.0010	
K-T	mg/L	0.869					1.36				1.60					1.53	
S-T	mg/L	91.3					132				165					154	
Se-T	mg/L	<0.00010					<0.00010				<0.00010					<0.00010	
Si-T	mg/L	2.98					3.01				3.49					4.05	
Ag-T	mg/L	<0.000020					<0.000020				<0.000020					<0.000020	
Na-T	mg/L	43.2					73.6				86.4					90.2	
Sr-T	mg/L	0.863					1.38				1.91					1.77	
Zn-T	mg/L	<0.0050					<0.0050				<0.0050					<0.0050	
Al-D	mg/L						0.00202				<0.0030					<0.0030	
As-D	mg/L						0.000312				0.00038					0.00042	
Ba-D	mg/L						0.0183				0.0203					0.0241	
B-D	mg/L						0.587				0.542					0.577	
Be-D	mg/L						<0.000010				<0.00010					<0.00010	
Cd-D	mg/L						<0.0000050				<0.000010					<0.000010	
Ca-D	mg/L						160				178					174	
Cr-D	mg/L						<0.00010				<0.0010					<0.0010	
Co-D	mg/L						0.000205				0.00023					<0.00020	
Cu-D	mg/L						0.000120				<0.00020					<0.00020	
Hard-D	mg/L						450				502					490	
Fe-D	mg/L						0.116				0.157					0.139	
Pb-D	mg/L						<0.0000050				<0.00020					<0.00020	
Mg-D	mg/L						12.4				13.9					13.6	
Mn-D	mg/L						0.201				0.266					0.261	
Mo-D	mg/L						0.000072				<0.0010					<0.0010	
Ni-D	mg/L						0.000149				<0.0010					<0.0010	
K-D	mg/L						1.47				1.43					1.53	
S-D	mg/L						133				151					161	
Se-D	mg/L						0.000186				<0.00010					<0.00010	
Si-D	mg/L						3.13				3.47					3.84	
Na-D	mg/L						78.8				81.7					84.1	
Sr-D	mg/L						1.45				1.74					1.96	
Zn-D	mg/L						0.00062				<0.0050					<0.0050	

Appendix 1 - Tables

Table 15 2 South Pit Inflow 3 Page(s)

Site Description																	
Site Name		2SI															
Date		2025-07-14	2025-07-21	2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-25	2025-08-25	2025-09-02	2025-09-08	2025-09-15	2025-09-22	2025-10-01	2025-10-14	2025-10-20	2025-11-03
pH-F	pH Units	7.85	7.85	7.92	8.06	7.99	7.76	7.94	7.94	7.94	7.79	7.9		7.79	7.87	7.46	7.49
Cond-F	uS/cm	1385	1309	1335	1354	1411	1303	1411	1411	1346	1360	1418		1228	1015	869	643
H2S	mg/L	0.0078	0.027	<0.0020		0.02		0.0051	0.0078	0.0073	0.047			0.0025	<0.0020	0.0025	0.003
SO4-D	mg/L	420	420	450	450	430	450	480	470	410	390	410		440	360	280	220
TSS	mg/L				2.0					4.0				<1.0			<1.0
Alk-T	mg/L				320					300				160			110
Acidity83	mg/L				1.5					<1.0				<1.0			<1.0
Al-T	mg/L				0.0032					0.0038				0.0185			0.0139
As-T	mg/L				0.00056					0.00065				0.00040			0.00025
Ba-T	mg/L				0.0241					0.0237				0.0249			0.0127
B-T	mg/L				0.637					0.706				0.530			0.182
Cd-T	mg/L				<0.000010					<0.000010				<0.000010			<0.000010
Ca-T	mg/L				190					168				146			87.2
Cr-T	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
Co-T	mg/L				<0.00020					<0.00020				0.00039			<0.00020
Cu-T	mg/L				<0.00050					<0.00050				0.00053			0.00051
Hard-T	mg/L				532					478				421			254
Fe-T	mg/L				0.323					0.382				0.265			0.162
Pb-T	mg/L				<0.00020					<0.00020				<0.00020			<0.00020
Mg-T	mg/L				14.4					14.1				13.7			8.89
Mn-T	mg/L				0.171					0.180				0.191			0.0988
Mo-T	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
Ni-T	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
K-T	mg/L				1.61					1.67				1.62			0.658
S-T	mg/L				152					148				157			72.8
Se-T	mg/L				<0.00010					<0.00010				<0.00010			<0.00010
Si-T	mg/L				4.13					3.94				3.75			3.9
Ag-T	mg/L				<0.000020					<0.000020				<0.000020			<0.000020
Na-T	mg/L				92.6					96.7				72.7			27.9
Sr-T	mg/L				1.99					1.74				1.48			0.628
Zn-T	mg/L				<0.0050					<0.0050				<0.0050			<0.0050
Al-D	mg/L				<0.0030					<0.0030				0.0051			0.0115
As-D	mg/L				0.00053					0.00060				0.00035			0.00024
Ba-D	mg/L				0.0257					0.0259				0.0252			0.0135
B-D	mg/L				0.670					0.746				0.707			0.222
Be-D	mg/L				<0.00010					<0.00010				<0.00010			<0.00010
Cd-D	mg/L				<0.000010					<0.000010				<0.000010			<0.000010
Ca-D	mg/L				194					190				178			95.2
Cr-D	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
Co-D	mg/L				<0.00020					<0.00020				0.00042			<0.00020
Cu-D	mg/L				<0.00020					<0.00020				0.00033			0.00039
Hard-D	mg/L				545					544				508			282
Fe-D	mg/L				0.0857					0.0968				0.127			0.133
Pb-D	mg/L				<0.00020					<0.00020				<0.00020			<0.00020
Mg-D	mg/L				14.9					16.5				15.5			10.7
Mn-D	mg/L				0.174					0.182				0.204			0.106
Mo-D	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
Ni-D	mg/L				<0.0010					<0.0010				<0.0010			<0.0010
K-D	mg/L				1.75					1.80				1.76			0.711
S-D	mg/L				163					164				174			80.3
Se-D	mg/L				<0.00010					<0.00010				<0.00010			<0.00010
Si-D	mg/L				4.64					4.53				4.22			4.27
Na-D	mg/L				96.9					114				86.5			31.6
Sr-D	mg/L				1.83					1.97				1.51			0.697
Zn-D	mg/L				<0.0050					<0.0050				<0.0050			<0.0050

Appendix 1 - Tables

Table 15 2 South Pit Inflow 3 Page(s)

Site Description													
Site Name		2SI											
Date		2025-11-06	2025-11-10	2025-11-17	2025-11-17	2025-11-24	2025-12-01	2025-12-08	2025-12-15	2025-12-15	2025-12-22	2025-12-30	2026-01-05
pH-F	pH Units		7.45	7.6	7.6	7.51	7.49	7.51	7.18	7.18	7.68	7.55	7.52
Cond-F	uS/cm		622	624	624	710	714	584	443	443	619	709	634
H2S	mg/L		<0.0020	0.0043	0.0048		0.011	0.011		0.013	0.031	0.017	
SO4-D	mg/L		200	210	210	230	230	190	150	150	190	210	180
TSS	mg/L						1.2						<1.0
Alk-T	mg/L						130						110
Acidity83	mg/L						<1.0						<1.0
Al-T	mg/L						0.0139						0.0181
As-T	mg/L						0.00023						0.00018
Ba-T	mg/L						0.0121						0.0098
B-T	mg/L						0.261						0.168
Cd-T	mg/L						<0.000010						<0.000010
Ca-T	mg/L						92.8						80
Cr-T	mg/L						<0.0010						<0.0010
Co-T	mg/L						<0.00020						<0.00020
Cu-T	mg/L						<0.00050						<0.00050
Hard-T	mg/L						273						234
Fe-T	mg/L						0.291						0.205
Pb-T	mg/L						<0.00020						<0.00020
Mg-T	mg/L						9.97						8.35
Mn-T	mg/L						0.112						0.0835
Mo-T	mg/L						<0.0010						<0.0010
Ni-T	mg/L						<0.0010						<0.0010
K-T	mg/L						0.748						0.565
S-T	mg/L						76.7						61.6
Se-T	mg/L						<0.00010						<0.00010
Si-T	mg/L						3.73						3.78
Ag-T	mg/L						<0.000020						<0.000020
Na-T	mg/L						36.4						25.4
Sr-T	mg/L						0.735						0.589
Zn-T	mg/L						<0.0050						<0.0050
Al-D	mg/L						0.007						0.0102
As-D	mg/L						0.0002						0.00016
Ba-D	mg/L						0.0124						0.0099
B-D	mg/L						0.256						0.22
Be-D	mg/L						<0.00010						<0.00010
Cd-D	mg/L						<0.000010						<0.000010
Ca-D	mg/L						94.7						83.9
Cr-D	mg/L						<0.0010						<0.0010
Co-D	mg/L						<0.00020						<0.00020
Cu-D	mg/L						0.00026						0.00025
Hard-D	mg/L						278						250
Fe-D	mg/L						0.186						0.108
Pb-D	mg/L						<0.00020						<0.00020
Mg-D	mg/L						10						9.83
Mn-D	mg/L						0.117						0.0808
Mo-D	mg/L						<0.0010						<0.0010
Ni-D	mg/L						<0.0010						<0.0010
K-D	mg/L						0.774						0.651
S-D	mg/L						79						69.9
Se-D	mg/L						<0.00010						0.00027
Si-D	mg/L						3.9						3.81
Na-D	mg/L						38.5						31.9
Sr-D	mg/L						0.722						0.618
Zn-D	mg/L						<0.0050						<0.0050

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Table 15 2 South Pit Inflow 3 Page(s)

Site Description										
Site Name		2SI								
Date		2026-01-19	2026-01-26	2026-01-26	2026-02-02	2026-02-09	2026-03-02	2026-03-09	2026-03-16	2026-03-23
pH-F	pH Units	7.7	7.71	7.71	7.54	7.26	7.18	7.68	7.04	7.44
Cond-F	uS/cm	656	684	684	504	569	614	557	454	547
H2S	mg/L	0.02	0.015	0.014	0.029	0.030	0.031	0.026	0.03	0.023
SO4-D	mg/L	190	210	210	160	180	170	170	130	160
TSS	mg/L				<1.0		<1.0			
Alk-T	mg/L				88		100			
Acidity83	mg/L				1.9		1.2			
Al-T	mg/L				0.0212		0.0139			
As-T	mg/L				0.00017		0.00017			
Ba-T	mg/L				0.0085		0.0094			
B-T	mg/L				0.143		0.199			
Cd-T	mg/L				<0.000010		<0.000010			
Ca-T	mg/L				64.8		77.8			
Cr-T	mg/L				<0.0010		<0.0010			
Co-T	mg/L				<0.00020		<0.00020			
Cu-T	mg/L				<0.00050		<0.00050			
Hard-T	mg/L				192		227			
Fe-T	mg/L				0.143		0.203			
Pb-T	mg/L				<0.00020		<0.00020			
Mg-T	mg/L				7.24		8.05			
Mn-T	mg/L				0.0544		0.0812			
Mo-T	mg/L				<0.0010		<0.0010			
Ni-T	mg/L				<0.0010		<0.0010			
K-T	mg/L				0.53		0.53			
S-T	mg/L				53.9		55.2			
Se-T	mg/L				<0.00010		<0.00010			
Si-T	mg/L				3.51		3.85			
Ag-T	mg/L				<0.000020		<0.000020			
Na-T	mg/L				19		23.8			
Sr-T	mg/L				0.456		0.54			
Zn-T	mg/L				<0.0050		<0.0050			
Al-D	mg/L				0.0112		0.0077			
As-D	mg/L				0.00015		0.00015			
Ba-D	mg/L				0.0085		0.0095			
B-D	mg/L				0.141		0.191			
Be-D	mg/L				<0.00010		<0.00010			
Cd-D	mg/L				<0.000010		<0.000010			
Ca-D	mg/L				73.1		74.4			
Cr-D	mg/L				<0.0010		<0.0010			
Co-D	mg/L				<0.00020		<0.00020			
Cu-D	mg/L				0.00034		0.00027			
Hard-D	mg/L				212		218			
Fe-D	mg/L				0.093		0.129			
Pb-D	mg/L				<0.00020		<0.00020			
Mg-D	mg/L				7.04		7.94			
Mn-D	mg/L				0.0544		0.0799			
Mo-D	mg/L				<0.0010		<0.0010			
Ni-D	mg/L				<0.0010		<0.0010			
K-D	mg/L				0.498		0.552			
S-D	mg/L				51.2		58.8			
Se-D	mg/L				<0.00010		0.00014			
Si-D	mg/L				4.04		3.68			
Na-D	mg/L				18.8		25.3			
Sr-D	mg/L				0.51		0.534			
Zn-D	mg/L				<0.0050		<0.0050			

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Table 16 2-South Pit in Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID		E292127													
Site Description		2-South Pit in Pit Water Cover Over PAG-CCR													
Site Name		2S													
Date		2025-04-01	2025-05-05	2025-06-02	2025-07-02	2025-08-05	2025-09-02	2025-09-02	2025-10-01	2025-11-03	2025-11-18	2025-12-01	2026-01-05	2026-02-02	2026-03-02
pH-F	pH Units	8.32	8.24	8.26	8.1	8.03	7.99	7.99	8.18	7.83	8.05	8.05	7.84	7.66	7.58
Cond-F	uS/cm	633	852	910	963	1035	1042	1042	983	638	594	622	285	445	519
SO4-D	mg/L	210	300	340	380	390	420	420	390	240	200	210	71	120	150
Alk-T	mg/L	98	120	130	120	120	92	93	82	86	87	110	51	76	87
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.2	<1.0	1	1.1	<1.0	<1.0	1.3	<1.0
Al-T	mg/L	0.0331	0.0043	<0.0030	0.0386	0.0051	<0.0030	0.0083	0.0172	0.0159	0.0297	0.0075	0.0122	0.0621	0.0701
As-T	mg/L	0.00020	0.00034	0.00043	0.00073	0.00105	0.00106	0.00101	0.00086	0.00027	0.0002	0.00019	<0.00010	0.00021	0.00025
Ba-T	mg/L	0.0114	0.0132	0.0147	0.0182	0.0152	0.0138	0.0129	0.0125	0.0104	0.0105	0.01	0.0033	0.0073	0.01
B-T	mg/L	0.194	0.411	0.534	0.502	0.596	0.680	0.643	0.570	0.234	0.184	0.206	<0.050	0.11	0.148
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000014	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	81.0	111	122	123	124	112	103	103	81.6	79.3	81.6	20.4	56.2	65.4
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00088	0.00072	<0.00050	0.00095	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00053	<0.00050	<0.00050	0.00063	0.00091
Hard-T	mg/L	233	319	357	358	368	338	311	315	239	235	242	59	164	194
Fe-T	mg/L	0.081	0.024	0.026	0.175	0.081	0.035	0.065	0.037	0.059	0.084	0.027	0.029	0.134	0.173
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	7.47	10.2	12.5	12.5	14.0	14.2	13.2	14.1	8.65	8.99	9.14	1.98	5.76	7.5
Mn-T	mg/L	0.0203	0.0052	0.0133	0.0624	0.0176	0.0279	0.0368	0.0082	0.0174	0.0188	0.0111	0.009	0.0292	0.0455
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	0.613	1.11	1.38	1.37	1.56	1.56	1.45	1.59	0.849	0.765	0.714	0.214	0.487	0.528
S-T	mg/L	64.8	112	141	131	152	153	142	154	78.7	70	69.2	13.6	45	50.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.13	1.20	1.28	1.89	3.39	3.17	2.92	2.39	2.97	3.5	3.22	0.89	2.83	3
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	28.3	56.8	70.7	75.2	86.0	92.9	85.4	91.0	33.9	28.2	30.2	6.77	15.7	20
Sr-T	mg/L	0.625	1.04	1.41	1.36	1.58	1.50	1.41	1.49	0.697	0.574	0.625	0.137	0.371	0.465
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.00327	0.00130	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0079	0.0055	<0.0030	0.0033	0.0084	0.0062
As-D	mg/L	0.000188	0.000353	0.00042	0.00058	0.00099	0.00105	0.00104	0.00080	0.00028	0.00021	0.00019	0.00011	0.00013	0.00018
Ba-D	mg/L	0.0104	0.0135	0.0138	0.0144	0.0154	0.0140	0.0138	0.0110	0.0108	0.0102	0.0106	0.0052	0.0074	0.008
B-D	mg/L	0.230	0.434	0.449	0.454	0.604	0.704	0.690	0.716	0.255	0.186	0.211	0.08	0.12	0.148
Be-D	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	86.9	110	120	109	122	120	119	108	91	82.9	87.8	40.1	62.6	64.3
Cr-D	mg/L	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.0000380	0.0000370	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.000394	0.000417	0.00041	0.00027	<0.00020	<0.00020	<0.00020	<0.00020	0.00045	0.0004	0.00034	0.0003	0.00043	0.0005
Hard-D	mg/L	251	320	347	321	361	365	364	329	269	245	259	117	182	190
Fe-D	mg/L	0.0122	0.0092	0.0133	0.0294	0.0357	0.0247	0.0250	0.0184	0.0279	0.023	0.0136	0.0101	0.0287	0.0179
Pb-D	mg/L	0.0000050	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	8.20	11.1	11.6	11.7	13.7	16.1	16.1	14.3	10.3	9.1	9.61	4.12	6.23	7.08
Mn-D	mg/L	0.0111	0.00348	0.0019	0.0220	0.0045	0.0235	0.0237	0.0055	0.0169	0.0139	0.0116	0.0163	0.0294	0.0378
Mo-D	mg/L	<0.000050	0.000053	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.000195	0.000091	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	0.682	1.20	1.26	1.31	1.57	1.58	1.57	1.58	0.969	0.767	0.777	0.323	0.488	0.506
S-D	mg/L	76.1	113	125	133	153	163	160	148	86.3	71	74.5	28.4	43.7	50.1
Se-D	mg/L	0.000051	0.000121	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0002	<0.00010	<0.00010	0.00014
Si-D	mg/L	2.26	1.27	1.24	1.73	3.66	3.37	3.42	2.46	3.32	3.56	3.45	1.73	3.18	2.98
Na-D	mg/L	30.9	60.8	63.6	68.4	85.1	102	104	89.3	39.4	27.7	32.9	11.8	16.1	19.3
Sr-D	mg/L	0.729	1.08	1.30	1.45	1.40	1.59	1.57	1.33	0.738	0.58	0.646	0.282	0.412	0.437
Zn-D	mg/L	0.0122	<0.00010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 17 2-South Outflow Culvert into 3-South Pit 1 Page(s)

EMS ID											
Site Description		2-South Outflow Culvert into 3-South Pit									
Site Name		2SC									
Date		2025-04-01	2025-05-05	2025-07-02	2025-08-05	2025-09-02	2025-10-01	2025-11-03	2025-12-01	2026-01-05	2026-02-02
pH-F	pH Units	8.09	8.27	7.97	7.97	7.84	8.07	7.63	7.89	7.87	7.66
Cond-F	uS/cm	1430	1565	1424	1306	1291	1151	1354	1350	1404	1291
SO4-D	mg/L	620	550	560	520	490	440	610	580	550	530
Alk-T	mg/L		200	220	210	210	200	200	190	180	170
Acidity83	mg/L		<1.0	2.3	2.4	<1.0	<1.0	<1.0	<1.0	1.1	2.6
Al-T	mg/L	<0.0060	0.0167	<0.0060	<0.0030	<0.0030	0.0146	0.0086	0.0054	0.0037	0.0059
As-T	mg/L	<0.00020	0.00021	<0.00020	0.00019	0.00017	0.00025	<0.00020	0.00015	0.00012	0.00013
Ba-T	mg/L	0.0112	0.0125	0.0143	0.0131	0.0120	0.0127	0.0125	0.0118	0.0121	0.0108
B-T	mg/L	0.20	0.36	0.35	0.342	0.370	0.311	0.22	0.26	0.232	0.198
Cd-T	mg/L	<0.000020	0.000034	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	248	279	263	220	202	182	246	240	257	221
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.0010	0.0015	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	0.00051	<0.00050
Hard-T	mg/L	739	817	788	653	597	544	727	721	762	658
Fe-T	mg/L	<0.020	0.031	<0.020	<0.010	<0.010	0.018	<0.020	<0.010	<0.010	0.014
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	29.1	28.9	32.2	25.3	22.5	21.8	27.2	29.6	29.2	25.6
Mn-T	mg/L	0.0054	0.0143	0.0070	0.0039	0.0030	0.0193	0.0091	0.0034	0.0036	0.0076
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	0.0017	<0.0010
K-T	mg/L	1.49	2.09	2.04	1.98	1.79	1.96	1.54	1.66	1.65	1.52
S-T	mg/L	196	217	202	185	160	158	194	199	199	193
Se-T	mg/L	0.00027	0.00025	<0.00020	0.00011	0.00010	0.00011	0.00037	0.00023	0.00029	0.00026
Si-T	mg/L	2.21	2.40	2.90	2.57	2.50	2.63	2.54	2.48	2.71	2.44
Ag-T	mg/L	<0.000040	0.000120	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020
Na-T	mg/L	19.4	31.4	36.8	38.8	34.7	36.1	21.4	22.7	21.3	16.6
Sr-T	mg/L	1.30	1.49	1.52	1.45	1.24	1.24	1.27	1.31	1.39	1.16
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Al-D	mg/L		<0.0010	0.0077	<0.0030	<0.0030	0.0033	<0.0060	<0.0060	<0.0030	0.0038
As-D	mg/L		0.000159	0.00038	0.00024	0.00021	0.00023	<0.00020	<0.00020	0.00013	0.00011
Ba-D	mg/L		0.0128	0.0141	0.0137	0.0139	0.0122	0.0143	0.0125	0.0121	0.0111
B-D	mg/L		0.331	0.295	0.341	0.394	0.384	0.28	0.28	0.227	0.22
Be-D	mg/L		<0.000020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010
Ca-D	mg/L		267	226	233	232	203	278	255	257	248
Cr-D	mg/L		<0.00020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010
Co-D	mg/L		0.000013	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020
Cu-D	mg/L		0.00016	0.00047	<0.00020	<0.00020	0.00022	<0.00040	<0.00040	<0.00020	<0.00020
Hard-D	mg/L		797	677	697	697	606	835	768	760	732
Fe-D	mg/L		0.0027	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050
Pb-D	mg/L		<0.000010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020
Mg-D	mg/L		31.7	27.4	27.6	28.6	23.8	34	31.7	28.9	27.3
Mn-D	mg/L		0.00580	0.0085	0.0042	0.0032	0.0208	0.0103	0.0035	0.0034	0.0083
Mo-D	mg/L		0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010
Ni-D	mg/L		0.000267	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010
K-D	mg/L		2.02	1.86	2.25	2.06	2.05	1.84	1.85	1.63	1.5
S-D	mg/L		223	197	198	192	159	223	217	192	190
Se-D	mg/L		0.000405	0.00015	0.00012	0.00014	0.00013	0.00039	0.00051	0.00027	0.00028
Si-D	mg/L		2.54	2.62	2.87	2.85	2.84	3.01	2.61	2.71	2.82
Na-D	mg/L		33.0	29.7	41.2	43.2	39.3	25.5	26.1	21.1	18.1
Sr-D	mg/L		1.51	1.54	1.38	1.46	1.16	1.47	1.36	1.44	1.3
Zn-D	mg/L		<0.00020	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050

Appendix 1 - Tables

Table 18 3-South Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID		E217015											
Site Description		3-South Pit Water Cover Over PAG-CCR											
Site Name		3S											
Date		2025-04-01	2025-05-05	2025-06-02	2025-07-02	2025-08-05	2025-09-02	2025-10-01	2025-11-03	2025-11-18	2026-01-05	2026-02-02	2026-03-02
pH-F	pH Units	7.98	7.99	8.04	7.98	7.98	7.81	7.98	7.79	7.72	7.84	7.64	7.77
Cond-F	uS/cm	1410	1396	1354	1313	1287	1267	1168	1321	1400	1418	1303	1489
SO4-D	mg/L	620	550	550	620	610	560	460	590	640	560	540	580
Alk-T	mg/L	180	160	160	140	140	140	160	190	180	180		180
Acidity83	mg/L	<1.0	1.4	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	3.8	1.1		1.5
Al-T	mg/L	0.0051	<0.0060	<0.0030	0.0070		0.0047		0.0145	0.0122	0.0085		0.0162
As-T	mg/L	0.00015	0.00026	0.00029	0.00031		0.00036		0.00021	0.00015	0.00126		0.00029
Ba-T	mg/L	0.0113	0.0122	0.0125	0.0128		0.0122		0.0124	0.0133	0.013		0.0117
B-T	mg/L	0.216	0.39	0.331	0.329		0.385		0.24	0.263	0.241		0.254
Cd-T	mg/L	<0.000010	<0.000020	<0.000010	0.000011		<0.000010		<0.000020	<0.000010	<0.000010		<0.000010
Ca-T	mg/L	243	270	248	220		167		226	258	260		257
Cr-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010		<0.0010		<0.0020	<0.0010	0.0017		<0.0010
Co-T	mg/L	<0.00020	<0.00040	<0.00020	<0.00020		<0.00020		<0.00040	<0.00020	<0.00020		<0.00020
Cu-T	mg/L	<0.00050	<0.0010	<0.00050	<0.00050		<0.00050		<0.0010	<0.00050	<0.00050		<0.00050
Hard-T	mg/L	724	802	750	669		522		672	769	775		771
Fe-T	mg/L	0.022	0.068	0.015	0.030		0.022		0.026	0.04	0.028		0.179
Pb-T	mg/L	<0.00020	<0.00040	<0.00020	<0.00020		<0.00020		<0.00040	<0.00020	<0.00020		<0.00020
Mg-T	mg/L	28.2	30.9	31.7	29.3		25.2		26.4	30.2	30.2		31.2
Mn-T	mg/L	0.0118	0.0068	0.0063	0.0173		0.0068		0.0133	0.0262	0.0129		0.0083
Mo-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010		<0.0010		<0.0020	<0.0010	<0.0010		<0.0010
Ni-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010		<0.0010		<0.0020	<0.0010	<0.0010		<0.0010
K-T	mg/L	1.58	2.04	2.16	2.00		2.02		1.6	1.81	1.73		1.7
S-T	mg/L	192	233	235	198		177		184	215	208		202
Se-T	mg/L	0.00023	<0.00020	0.00010	<0.00010		<0.00010		0.00029	0.00026	0.00026		0.00028
Si-T	mg/L	2.20	2.27	2.06	1.47		2.06		2.41	2.72	2.74		2.51
Ag-T	mg/L	<0.000020	<0.000040	<0.000020	<0.000020		<0.000020		<0.000040	<0.000020	<0.000020		<0.000020
Na-T	mg/L	21.5	29.1	32.4	35.1		35.7		23	24	21.9		18.9
Sr-T	mg/L	1.36	1.59	1.74	1.48		1.32		1.23	1.42	1.49		1.37
Zn-T	mg/L	<0.0050	<0.010	<0.0050	<0.0050		<0.0050		<0.010	<0.0050	<0.0050		<0.0050
Al-D	mg/L	0.0022	<0.0010	<0.0030	<0.0030		<0.0030		<0.0060	<0.0060	<0.0030		<0.0060
As-D	mg/L	0.000150	0.000251	0.00027	0.00033		0.00040		<0.00020	<0.00020	0.00014		<0.00020
Ba-D	mg/L	0.0125	0.0126	0.0119	0.0128		0.0135		0.0138	0.0149	0.0127		0.0124
B-D	mg/L	0.262	0.344	0.314	0.292		0.409		0.29	0.3	0.231		0.26
Be-D	mg/L	<0.000020	<0.000020	<0.00010	<0.00010		<0.00010		<0.00020	<0.00020	<0.00010		<0.00020
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010		<0.000020	<0.000020	<0.000010		<0.000020
Ca-D	mg/L	259	261	240	200		222		267	292	264		242
Cr-D	mg/L	<0.00020	<0.00020	<0.0010	<0.0010		<0.0010		<0.0020	<0.0020	<0.0010		<0.0020
Co-D	mg/L	0.000055	0.000015	<0.00020	<0.00020		<0.00020		<0.00040	<0.00040	<0.00020		<0.00040
Cu-D	mg/L	0.00019	0.00017	<0.00020	<0.00020		<0.00020		<0.00040	<0.00040	<0.00020		<0.00040
Hard-D	mg/L	772	791	719	613		682		803	875	782		735
Fe-D	mg/L	0.0084	0.0079	0.0088	0.0127		0.0154		<0.010	<0.010	0.005		<0.010
Pb-D	mg/L	<0.000010	0.000028	<0.00020	<0.00020		<0.00020		<0.00040	<0.00040	<0.00020		<0.00040
Mg-D	mg/L	30.7	33.9	29.4	27.4		30.8		33.2	35.4	30		31.7
Mn-D	mg/L	0.0121	0.00283	0.0059	0.0071		0.0039		0.0136	0.0284	0.0127		0.0068
Mo-D	mg/L	0.00019	0.00027	<0.0010	<0.0010		<0.0010		<0.0020	<0.0020	<0.0010		<0.0020
Ni-D	mg/L	0.000741	0.000151	<0.0010	<0.0010		<0.0010		<0.0020	<0.0020	<0.0010		<0.0020
K-D	mg/L	1.78	2.18	1.99	1.95		2.27		1.88	2.08	1.75		1.74
S-D	mg/L	220	236	216	206		210		211	249	212		204
Se-D	mg/L	0.000306	0.000367	0.00014	<0.00010		0.00011		0.00032	0.0003	0.00027		0.00044
Si-D	mg/L	2.42	2.40	1.98	1.36		2.73		2.98	3.08	2.7		2.32
Na-D	mg/L	23.8	30.5	29.0	31.3		43.0		27.4	28	22.3		20.5
Sr-D	mg/L	1.54	1.59	1.56	1.59		1.57		1.43	1.56	1.51		1.43
Zn-D	mg/L	0.00441	<0.00020	<0.0050	<0.0050		<0.0050		<0.010	<0.010	<0.0050		<0.010

Appendix 1 - Tables

Table 19 Culvert Downstream End at Access Road 1 Page(s)

EMS ID		E217014												
Site Description		Culvert Downstream End at Access Road												
Site Name		SPC												
Date		2025-04-01	2025-05-05	2025-06-02	2025-06-02	2025-07-02	2025-10-01	2025-11-03	2025-12-01	2025-12-01	2026-01-05	2026-02-02	2026-03-02	2026-03-02
pH-F	pH Units	7.86	7.8	8.05	8.05	7.65	7.92	7.35	7.45	7.45	7.75	6.92	6.92	6.92
Cond-F	uS/cm	339	298	249	249	138.3	115.8	223	369	369	314	309	297	297
SO4-D	mg/L	120	90	66	66	21	18	73	120	120	95	100	81	85
TSS	mg/L	1.2	2.0	1.2	1.6	2.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L	44	45	50	49	42	30	34	49	49	41	45	37	37
Acidity83	mg/L	<1.0	<1.0	<1.0	1.5	1.2	<1.0	1.9	<1.0	<1.0	1.4		<1.0	<1.0
Al-T	mg/L		0.0438			0.0838	0.159	0.0748	0.0606	0.047	0.0552		0.0493	0.0478
As-T	mg/L		0.00051			0.00081	0.00095	0.00034	0.00033	0.00029	0.0003		0.00027	0.00025
Ba-T	mg/L		0.0071			0.0052	0.0059	0.0062	0.0087	0.0075	0.0064		0.0055	0.0058
B-T	mg/L		0.067			0.058	<0.050	0.058	0.076	0.07	0.055		0.06	0.056
Cd-T	mg/L		<0.000010			<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010
Ca-T	mg/L		36.0			18.0	16.5	27.6	51.5	47.9	39		39	37.6
Cr-T	mg/L		<0.0010			0.0078	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-T	mg/L		<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-T	mg/L		<0.00050			0.00074	0.00147	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050
Hard-T	mg/L		110			55.5	50.5	84.2	156	145	119		118	115
Fe-T	mg/L		0.100			0.308	0.300	0.101	0.075	0.07	0.071		0.061	0.055
Pb-T	mg/L		<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-T	mg/L		4.75			2.60	2.24	3.7	6.73	6.21	5.18		5.09	5.02
Mn-T	mg/L		0.0035			0.0056	0.0031	0.0013	0.0015	0.0013	0.0018		0.0021	0.0021
Mo-T	mg/L		<0.0010			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-T	mg/L		<0.0010			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-T	mg/L		0.361			0.326	0.438	0.366	0.487	0.441	0.368		0.379	0.379
S-T	mg/L		29.2			5.5	6.2	20.6	45.3	39.5	30.8		30.6	29.6
Se-T	mg/L		<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-T	mg/L		2.29			3.76	5.88	3.3	3.61	3.31	3.24		3.42	3.09
Ag-T	mg/L		<0.000020			<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020
Na-T	mg/L		7.09			3.73	3.41	6.36	10.2	9.42	6.52		6.03	5.74
Sr-T	mg/L		0.211			0.115	0.105	0.167	0.307	0.275	0.234		0.226	0.227
Zn-T	mg/L		<0.0050			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	0.0078
Al-D	mg/L		0.0278			0.0709	0.147	0.072	0.0427	0.0421	0.0436		0.0403	0.0407
As-D	mg/L		0.000487			0.00080	0.00085	0.00035	0.00029	0.00028	0.00029		0.00023	0.00024
Ba-D	mg/L		0.00738			0.0053	0.0040	0.0066	0.0086	0.0086	0.0068		0.0056	0.0055
B-D	mg/L		0.068			0.056	<0.050	0.067	0.073	0.074	0.056		0.056	0.054
Be-D	mg/L		<0.000010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Cd-D	mg/L		<0.0000050			0.000013	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010
Ca-D	mg/L		37.1			18.0	15.3	29.7	50.2	49.5	42.9		38.4	37.2
Cr-D	mg/L		0.00011			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-D	mg/L		0.000109			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-D	mg/L		0.000505			0.00072	0.00131	0.00045	0.00031	0.00032	0.00031		0.00025	0.00026
Hard-D	mg/L		113			55.3	47.1	92.2	153	152	130		116	113
Fe-D	mg/L		0.0559			0.211	0.266	0.0891	0.0562	0.0569	0.0613		0.0446	0.0417
Pb-D	mg/L		0.0000070			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-D	mg/L		5.01			2.48	2.17	4.37	6.77	6.88	5.53		4.79	4.95
Mn-D	mg/L		0.000602			0.0020	0.0020	0.0011	<0.0010	<0.0010	0.0014		0.0015	0.0015
Mo-D	mg/L		0.000096			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-D	mg/L		0.000430			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-D	mg/L		0.410			0.344	0.415	0.412	0.502	0.491	0.402		0.364	0.377
S-D	mg/L		28.3			6.2	4.3	24.1	43.3	42.8	31.1		28.4	29.1
Se-D	mg/L		0.000056			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-D	mg/L		2.29			3.89	5.94	3.6	3.33	3.42	3.54		3.21	3.1
Na-D	mg/L		7.77			3.87	3.40	7.3	10.3	10.3	6.94		5.6	5.72
Sr-D	mg/L		0.242			0.121	0.0886	0.19	0.304	0.302	0.253		0.216	0.222
Zn-D	mg/L		0.00108			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130															
Site Description	South End Mine Water Entering Long Lake Near the Outlet															
Site Name	LLE	Std Val														
Date	Max	2025-04-01	2025-04-07	2025-04-14	2025-04-22	2025-04-28	2025-05-05	2025-05-12	2025-05-20	2025-05-26	2025-05-26	2025-06-02	2025-06-09	2025-06-16	2025-06-23	2025-06-23
pH-F	pH Units		7.4	7.4	7.09	7.55	7.3	7.14	7.4	6.8	6.67	6.67	6.87	6.78	7.24	7.15
Cond-F	uS/cm		303	289	264	415	447	497	583	325	296	296	496	1004	910	338
SO4-D	mg/L	≤ 128*	110	100	81	110	120	170	210	96	89	88	180	380	330	270
TSS	mg/L		1.2					1.6					1.2			
DOC	mg/L		3.9					4.3					5.5			
Alk-T	mg/L		39					64					70			
Acidity83	mg/L		1.1					1.4					<1.0			
N-NH3	mg/L	12.9	<0.015					<0.015					0.083			
N-NO23	mg/L		<0.020					<0.020					<0.020			
P-T	mg/L		0.0042					0.0077								
Al-T	mg/L		0.0515					0.0497					0.0130			
As-T	mg/L		0.00050					0.00078					0.00118			
Ba-T	mg/L		0.0093					0.0166					0.0135			
B-T	mg/L		0.063					0.183					0.225			
Cd-T	mg/L		<0.000010					<0.000010					<0.000010			
Ca-T	mg/L		35.9					61.5					67.9			
Cr-T	mg/L		<0.0010					<0.0010					<0.0010			
Co-T	mg/L	0.11	<0.00020					<0.00020					<0.00020			
Cu-T	mg/L		<0.00050					0.00051					<0.00050			
Hard-T	mg/L		109					190					211			
Fe-T	mg/L	1.0	0.125					0.295					0.219			
Pb-T	mg/L	0.0176	<0.00020					<0.00020					<0.00020			
Mg-T	mg/L		4.65					8.76					10.1			
Mn-T	mg/L	0.8706	0.0070					0.0334					0.0373			
Mo-T	mg/L	46.0	<0.0010					<0.0010					<0.0010			
Ni-T	mg/L		<0.0010					<0.0010					<0.0010			
K-T	mg/L		0.399					0.693					0.700			
S-T	mg/L		27.5					57.9					69.3			
Se-T	mg/L		<0.00010					<0.00010					<0.00010			
Si-T	mg/L		2.46					2.88					3.06			
Ag-T	mg/L		<0.000020					<0.000020					<0.000020			
Na-T	mg/L		6.56					18.5					22.3			
Sr-T	mg/L		0.220					0.345					0.412			
Zn-T	mg/L	0.033	<0.0050					<0.0050					<0.0050			
Al-D	mg/L		0.0319					0.00608					0.0061			
As-D	mg/L		0.000468					0.000718					0.00098			
Ba-D	mg/L		0.0104					0.0174					0.0125			
B-D	mg/L		0.066					0.202					0.230			
Be-D	mg/L		<0.000010					<0.000010					<0.000010			
Cd-D	mg/L	0.00017	<0.0000050					<0.0000050					<0.000010			
Ca-D	mg/L		40.6					62.3					64.6			
Cr-D	mg/L		<0.00010					<0.00010					<0.0010			
Co-D	mg/L		0.0000367					0.0000560					<0.00020			
Cu-D	mg/L		0.000362					0.000283					0.00024			
Hard-D	mg/L		122					195					202			
Fe-D	mg/L		0.0993					0.125					0.106			
Pb-D	mg/L		0.0000106					<0.0000050					<0.00020			
Mg-D	mg/L		5.08					9.65					9.81			
Mn-D	mg/L		0.00714					0.0351					0.0340			
Mo-D	mg/L		0.000093					0.00106					<0.0010			
Ni-D	mg/L		0.000207					0.000112					<0.0010			
K-D	mg/L		0.467					0.793					0.628			
S-D	mg/L		31.7					60.0					61.1			
Se-D	mg/L		0.000044					0.000138					<0.00010			
Si-D	mg/L		2.73					2.98					3.14			
Na-D	mg/L		7.25					19.9					21.1			
Sr-D	mg/L		0.258					0.387					0.393			
Zn-D	mg/L		0.0144					0.00123					<0.0050			

*Dissolved sulphate (128 mg/L) is a Chronic WQG derived from 30 mg/L Hardness.

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130											
Site Description	South End											
Site Name	LLE											
Date		2025-07-02	2025-07-07	2025-07-14	2025-07-21	2025-07-28	2025-08-05	2025-08-11	2025-08-18	2025-08-25	2025-09-02	2025-09-08
pH-F	pH Units	7.08	7.09	6.71	7.26	7.19	7.51	7.49	7.4	7.22	7.15	7.15
Cond-F	uS/cm	260	387	545	671	915	933	752	665	932	1045	1120
SO4-D	mg/L	57	110	170	230	320	330	240	220	310	340	310
TSS	mg/L	1.2					2.4				11	
DOC	mg/L										6.8	
Alk-T	mg/L	57					170				230	
Acidity83	mg/L	<1.0					<1.0				<1.0	
N-NH3	mg/L	<0.015					0.029				0.078	
N-NO23	mg/L	<0.020					<0.020				<0.020	
P-T	mg/L	0.014					0.014				0.0099	
Al-T	mg/L	0.0404					0.0056				0.0077	
As-T	mg/L	0.00219					0.00129				0.00387	
Ba-T	mg/L	0.0101					0.0205				0.0359	
B-T	mg/L	0.095					0.406				0.485	
Cd-T	mg/L	<0.000010					<0.000010				<0.000010	
Ca-T	mg/L	27.9					131				145	
Cr-T	mg/L	<0.0010					<0.0010				<0.0010	
Co-T	mg/L	<0.00020					<0.00020				0.00052	
Cu-T	mg/L	0.00055					<0.00050				<0.00050	
Hard-T	mg/L	87.4					407				445	
Fe-T	mg/L	0.348					0.832				3.43	
Pb-T	mg/L	<0.00020					<0.00020				<0.00020	
Mg-T	mg/L	4.29					19.3				20.4	
Mn-T	mg/L	0.0551					0.0649				3.42	
Mo-T	mg/L	<0.0010					<0.0010				<0.0010	
Ni-T	mg/L	<0.0010					<0.0010				<0.0010	
K-T	mg/L	0.437					1.27				2.24	
S-T	mg/L	15.7					116				114	
Se-T	mg/L	<0.00010					<0.00010				<0.00010	
Si-T	mg/L	3.80					5.42				6.34	
Ag-T	mg/L	<0.000020					<0.000020				<0.000020	
Na-T	mg/L	7.91					44.1				48.2	
Sr-T	mg/L	0.178					0.913				0.948	
Zn-T	mg/L	<0.0050					<0.0050				<0.0050	
Al-D	mg/L	0.0218					<0.0030				<0.0030	
As-D	mg/L	0.00213					0.00121				0.00353	
Ba-D	mg/L	0.0109					0.0213				0.0386	
B-D	mg/L	0.101					0.397				0.504	
Be-D	mg/L	<0.00010					<0.00010				<0.00010	
Cd-D	mg/L	<0.000010					<0.000010				<0.000010	
Ca-D	mg/L	28.3					134				155	
Cr-D	mg/L	<0.0010					<0.0010				<0.0010	
Co-D	mg/L	<0.00020					<0.00020				0.00058	
Cu-D	mg/L	0.00053					<0.00020				<0.00020	
Hard-D	mg/L	87.3					416				486	
Fe-D	mg/L	0.230					0.488				1.89	
Pb-D	mg/L	<0.00020					<0.00020				<0.00020	
Mg-D	mg/L	4.06					19.7				23.8	
Mn-D	mg/L	0.0546					0.0582				3.92	
Mo-D	mg/L	<0.0010					<0.0010				<0.0010	
Ni-D	mg/L	<0.0010					<0.0010				<0.0010	
K-D	mg/L	0.452					1.33				2.55	
S-D	mg/L	17.2					119				133	
Se-D	mg/L	<0.00010					<0.00010				<0.00010	
Si-D	mg/L	3.80					5.68				6.77	
Na-D	mg/L	7.97					44.9				55.9	
Sr-D	mg/L	0.194					0.825				1.07	
Zn-D	mg/L	<0.0050					<0.0050				<0.0050	

*Dissolved sulphate (128 mg/L) is a Chronic WQG derived from 30 mg/L Hardness.

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130														
Site Description	South End														
Site Name	LLE														
Date		2025-10-01	2025-10-06	2025-10-14	2025-10-20	2025-10-27	2025-11-03	2025-11-10	2025-11-17	2025-11-24	2025-12-01	2025-12-08	2025-12-15	2025-12-22	2025-12-30
pH-F	pH Units	7.02	6.96	6.94	7	7.1	6.91	7.5	7.46	7.19	7.23	7.35	7.36	7.26	7.42
Cond-F	uS/cm	271	284	258	332	256	240	334	381	264	332	239	249	322	337
SO4-D	mg/L	58	89	80	93	78	68	110	120	80	100	72	66	95	110
TSS	mg/L	10					<1.0				<1.0				
DOC	mg/L										4.1				
Alk-T	mg/L	68					34				44				
Acidity83	mg/L	<1.0					1.7				<1.0				
N-NH3	mg/L	<0.015					<0.015				<0.015				
N-NO23	mg/L	0.833					<0.020				0.057				
P-T	mg/L	0.025					0.0064				0.0034				
Al-T	mg/L	0.340					0.0703				0.0557				
As-T	mg/L	0.00216					0.00094				0.00074				
Ba-T	mg/L	0.0159					0.0092				0.0118				
B-T	mg/L	0.109					0.059				0.075				
Cd-T	mg/L	<0.000010					<0.000010				<0.000010				
Ca-T	mg/L	33.6					24.3				44.7				
Cr-T	mg/L	<0.0010					<0.0010				<0.0010				
Co-T	mg/L	0.00032					<0.00020				<0.00020				
Cu-T	mg/L	0.00179					0.00052				<0.00050				
Hard-T	mg/L	105					74.9				136				
Fe-T	mg/L	1.52					0.147				0.208				
Pb-T	mg/L	<0.00020					<0.00020				<0.00020				
Mg-T	mg/L	5.07					3.43				5.85				
Mn-T	mg/L	0.0426					0.0072				0.0203				
Mo-T	mg/L	<0.0010					<0.0010				<0.0010				
Ni-T	mg/L	<0.0010					<0.0010				<0.0010				
K-T	mg/L	0.887					0.423				0.517				
S-T	mg/L	19.2					18.5				36.7				
Se-T	mg/L	<0.00010					<0.00010				<0.00010				
Si-T	mg/L	4.80					3.02				3.52				
Ag-T	mg/L	<0.000020					<0.000020				<0.000020				
Na-T	mg/L	9.39					5.84				9.43				
Sr-T	mg/L	0.221					0.149				0.267				
Zn-T	mg/L	<0.0050					<0.0050				<0.0050				
Al-D	mg/L	0.0316					0.0535				0.0309				
As-D	mg/L	0.00132					0.00091				0.00058				
Ba-D	mg/L	0.0136					0.0105				0.0115				
B-D	mg/L	0.125					0.067				0.072				
Be-D	mg/L	<0.00010					<0.00010				<0.00010				
Cd-D	mg/L	<0.000010					<0.000010				<0.000010				
Ca-D	mg/L	35.2					31.4				43.5				
Cr-D	mg/L	<0.0010					<0.0010				<0.0010				
Co-D	mg/L	<0.00020					<0.00020				<0.00020				
Cu-D	mg/L	0.00070					0.00047				0.00031				
Hard-D	mg/L	110					96.6				134				
Fe-D	mg/L	0.340					0.115				0.141				
Pb-D	mg/L	<0.00020					<0.00020				<0.00020				
Mg-D	mg/L	5.30					4.43				6.12				
Mn-D	mg/L	0.0354					0.0079				0.019				
Mo-D	mg/L	<0.0010					<0.0010				<0.0010				
Ni-D	mg/L	<0.0010					<0.0010				<0.0010				
K-D	mg/L	0.874					0.502				0.498				
S-D	mg/L	19.5					24.5				36				
Se-D	mg/L	<0.00010					<0.00010				0.00018				
Si-D	mg/L	4.77					3.74				3.5				
Na-D	mg/L	9.62					7.42				9.48				
Sr-D	mg/L	0.202					0.189				0.259				
Zn-D	mg/L	<0.0050					<0.0050				<0.0050				

*Dissolved sulphate (128 mg/L) is a Chronic WQG derived from 30 mg/L Hardness.

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130														
Site Description	South End														
Site Name	L.I.E														
Date		2026-01-05	2026-01-12	2026-01-19	2026-01-19	2026-01-26	2026-02-02	2026-02-09	2026-02-17	2026-02-23	2026-02-23	2026-03-02	2026-03-09	2026-03-16	2026-03-23
pH-F	pH Units	7.15	7.56	7.35	7.35	7.21	6.11	6.89	7.11	7.22	7.22	6.51	6.91	6.73	7.4
Cond-F	uS/cm	295	227	362	362	423	244	271	481	217	217	290	395	380	377
SO4-D	mg/L	88	67	120	110	130	100	93	140	180	61	80	130	120	120
TSS	mg/L	<1.0					<1.0					<1.0			
DOC	mg/L	4.4													
Alk-T	mg/L	42					37					37			
Acidity83	mg/L	1.4					1.8					1.3			
N-NH3	mg/L	0.02					<0.015					<0.015			
N-NO23	mg/L	0.082					0.031					0.021			
P-T	mg/L						0.0065					0.0037			
Al-T	mg/L	0.0885					0.0741					0.0702			
As-T	mg/L	0.00101					0.0005					0.00077			
Ba-T	mg/L	0.0121					0.0085					0.0097			
B-T	mg/L	0.059					0.055					0.058			
Cd-T	mg/L	<0.000010					<0.000010					<0.000010			
Ca-T	mg/L	37.7					34.1					36.8			
Cr-T	mg/L	<0.0010					<0.0010					<0.0010			
Co-T	mg/L	<0.00020					<0.00020					<0.00020			
Cu-T	mg/L	<0.00050					<0.00050					<0.00050			
Hard-T	mg/L	115					102					112			
Fe-T	mg/L	0.307					0.191					0.171			
Pb-T	mg/L	<0.00020					<0.00020					<0.00020			
Mg-T	mg/L	5.14					4.16					4.83			
Mn-T	mg/L	0.0232					0.0081					0.0115			
Mo-T	mg/L	<0.0010					<0.0010					<0.0010			
Ni-T	mg/L	<0.0010					<0.0010					<0.0010			
K-T	mg/L	0.467					0.435					0.443			
S-T	mg/L	28.7					27.6					27.3			
Se-T	mg/L	<0.00010					<0.00010					<0.00010			
Si-T	mg/L	3.48					2.92					3.35			
Ag-T	mg/L	<0.000020					<0.000020					<0.000020			
Na-T	mg/L	7.04					5.57					5.87			
Sr-T	mg/L	0.219					0.196					0.203			
Zn-T	mg/L	<0.0050					<0.0050					<0.0050			
Al-D	mg/L	0.0346					0.0372					0.0296			
As-D	mg/L	0.00082					0.00046					0.00051			
Ba-D	mg/L	0.012					0.0088					0.0094			
B-D	mg/L	0.053					0.057					0.054			
Be-D	mg/L	<0.00010					<0.00010					<0.00010			
Cd-D	mg/L	<0.000010					<0.000010					<0.000010			
Ca-D	mg/L	39.2					36.2					33.7			
Cr-D	mg/L	<0.0010					<0.0010					<0.0010			
Co-D	mg/L	<0.00020					<0.00020					<0.00020			
Cu-D	mg/L	0.00029					0.00034					0.00038			
Hard-D	mg/L	120					109					104			
Fe-D	mg/L	0.214					0.144					0.106			
Pb-D	mg/L	<0.00020					<0.00020					<0.00020			
Mg-D	mg/L	5.3					4.45					4.88			
Mn-D	mg/L	0.0226					0.0083					0.0105			
Mo-D	mg/L	<0.0010					<0.0010					<0.0010			
Ni-D	mg/L	<0.0010					<0.0010					<0.0010			
K-D	mg/L	0.47					0.452					0.443			
S-D	mg/L	30.4					26.8					27.1			
Se-D	mg/L	<0.00010					<0.00010					<0.00010			
Si-D	mg/L	3.55					3.28					3.11			
Na-D	mg/L	7.18					5.7					5.86			
Sr-D	mg/L	0.233					0.203					0.198			
Zn-D	mg/L	<0.0050					<0.0050					<0.0050			

*Dissolved sulphate (128 mg/L) is a Chronic WQG derived from 30 mg/L Hardness.

Appendix 1 - Tables

Table 21 Seep into Long Lake 1 Page(s)

EMS ID		E292131 Stn Std			
Site Description		Seep into Long Lake			
Site Name		LLS			
Date		2025-04-01	2026-01-05	2026-02-02	2026-03-03
pH-F	pH Units	7.14	6.86	7.06	7.1
Cond-F	uS/cm	1382	1565	1176	1623
SO4-D	mg/L	530	580	440	530
TSS	mg/L	2.0	<1.0	<1.0	2
Alk-T	mg/L	200	230	170	220
Acidity83	mg/L	2.2	2	4.1	3.4
Al-T	mg/L	<0.0030	0.0057	0.0061	0.0034
As-T	mg/L	0.00109	0.00177	0.0012	0.00166
Ba-T	mg/L	0.0186	0.0189	0.0166	0.0217
B-T	mg/L	0.417	0.513	0.381	0.559
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	201	212	156	211
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00053	0.00029	0.00025	0.00039
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	576	606	445	610
Fe-T	mg/L	0.328	0.576	0.317	0.945
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	18.1	18.4	13.6	20.2
Mn-T	mg/L	0.207	0.151	0.156	0.287
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0016	0.0014	0.0012	0.0014
K-T	mg/L	2.22	2.24	1.89	2.42
S-T	mg/L	179	193	155	210
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.42	2.52	2.46	3.08
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	74.4	83.4	55.1	83
Sr-T	mg/L	1.78	2.05	1.42	2.14
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.00121	<0.0030	<0.0030	<0.0030
As-D	mg/L	0.00104	0.00135	0.00114	0.00139
Ba-D	mg/L	0.0203	0.0209	0.0178	0.0189
B-D	mg/L	0.464	0.553	0.444	0.524
Be-D	mg/L	<0.000010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	215	236	177	220
Cr-D	mg/L	<0.00010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.000608	0.00031	0.00027	0.00038
Cu-D	mg/L	0.000120	<0.00020	<0.00020	<0.00020
Hard-D	mg/L	617	675	507	628
Fe-D	mg/L	0.295	0.296	0.292	0.859
Pb-D	mg/L	0.0000052	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	19.5	20.7	15.5	19.4
Mn-D	mg/L	0.243	0.165	0.17	0.256
Mo-D	mg/L	0.000075	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.00182	0.0015	0.0013	0.0014
K-D	mg/L	2.42	2.45	1.91	2.31
S-D	mg/L	207	211	150	207
Se-D	mg/L	0.000074	0.00011	<0.00010	<0.00010
Si-D	mg/L	2.55	2.68	2.91	2.99
Na-D	mg/L	79.1	95.1	61.4	82.2
Sr-D	mg/L	2.07	2.17	1.54	1.85
Zn-D	mg/L	0.00279	<0.0050	<0.0050	<0.0050
Dry / No Flow from May, 2025 through January, 2026. Site has extremely low flow.					

Appendix 1 - Tables

Table 22 Long Lake Middle Seep 1 Page(s)

EMS ID	E292131	Max-WQG						
Site Description	Long Lake Middle Seep							
Site Name	LLSM							
Date		2025-04-01	2025-05-05	2025-11-03	2025-12-01	2026-01-05	2026-02-02	2026-03-03
Flow	m3/s			0.0036	0.00733	0.03584	0.0092	0.01076
pH-F	pH Units	7.69	7.73	7.55	7.56	7.49	7.4	7.64
Cond-F	uS/cm	1182	1313	952	1131	1189	1059	1293
SO4-D	mg/L	400	460	330	420	380	390	400
TSS	mg/L	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L	170	210	150	190	190	180	200
Acidity83	mg/L	<1.0	1.9	<1.0	<1.0	<1.0	2.1	<1.0
Al-T	mg/L	0.0119	0.0802	0.0255	0.0084	0.0078	0.0258	0.0105
As-T	mg/L	0.00013	0.00109	0.00048	0.00023	0.00024	0.00017	0.00013
Ba-T	mg/L	0.0162	0.0187	0.0158	0.0187	0.0174	0.0163	0.0187
B-T	mg/L	0.313	0.413	0.284	0.425	0.394	0.354	0.473
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	142	180	132	163	156	155	162
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	0.00060	0.00026	<0.00020	<0.00020	0.00024	<0.00020
Cu-T	mg/L	0.00096	0.00281	0.00059	<0.00050	<0.00050	0.00327	<0.00050
Hard-T	mg/L	410	516	383	468	447	446	468
Fe-T	mg/L	0.041	0.711	0.188	0.118	0.075	0.071	0.036
Pb-T	mg/L	<0.00020	0.00094	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	13.4	15.9	12.8	15	13.9	14.3	15.3
Mn-T	mg/L	0.0161	0.113	0.0361	0.0373	0.0255	0.0202	0.0109
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	0.0013	0.0011	<0.0010	<0.0010	0.0011	<0.0010
K-T	mg/L	1.65	1.93	1.52	1.82	1.76	1.77	2.01
S-T	mg/L	120	163	110	141	134	132	152
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011
Si-T	mg/L	2.22	2.56	2.48	2.52	2.55	2.72	2.75
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	53.0	67.5	41.1	59.9	59.9	61.3	70
Sr-T	mg/L	1.23	1.67	1.19	1.4	1.46	1.33	1.64
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.00795	0.00231	0.0068	0.0046	0.0045	0.0109	0.0069
As-D	mg/L	0.000147	0.000374	0.00039	0.00021	0.00028	0.00014	0.00011
Ba-D	mg/L	0.0191	0.0190	0.0174	0.0195	0.0192	0.0175	0.017
B-D	mg/L	0.373	0.474	0.361	0.442	0.422	0.387	0.409
Be-D	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	160	187	151	163	173	155	169
Cr-D	mg/L	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.000180	0.000138	0.00023	<0.00020	<0.00020	0.00024	<0.00020
Cu-D	mg/L	0.000369	0.000195	0.00051	0.00031	0.00033	0.00042	0.00031
Hard-D	mg/L	460	538	442	475	495	445	484
Fe-D	mg/L	0.0246	0.133	0.119	0.0751	0.0472	0.0245	0.0148
Pb-D	mg/L	<0.0000050	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	14.9	17.4	16.1	16.6	15.3	14.1	15.1
Mn-D	mg/L	0.0198	0.0594	0.0335	0.0382	0.0271	0.0206	0.0098
Mo-D	mg/L	0.000056	0.000094	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.00105	0.000615	0.0011	<0.0010	<0.0010	0.0012	<0.0010
K-D	mg/L	1.98	2.12	1.78	1.99	1.93	1.79	1.95
S-D	mg/L	146	168	132	153	139	139	150
Se-D	mg/L	0.000098	0.000179	0.00012	0.00022	0.00011	<0.00010	<0.00010
Si-D	mg/L	2.53	2.63	2.91	2.55	2.74	2.75	2.76
Na-D	mg/L	59.3	72.0	50.1	67.7	66.2	59.1	69.9
Sr-D	mg/L	1.49	1.69	1.28	1.46	1.59	1.45	1.47
Zn-D	mg/L	0.00608	<0.00010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 23 Authorised Discharge Location for 7S South Mine Water 1 Page(s)

EMS ID	E292069	PL-7S						
Site Description	Authorised Discharge Location for 7S South Mine Water							
Site Name	7SSD	Std Val						
Date		Max	2025-04-01	2025-07-02	2025-11-04	2026-01-06	2026-02-03	2026-03-03
pH-F	pH Units	6.00 - 8.00	7.57	8.02	7.05	6.87	7.4	7.44
Cond-F	uS/cm		217	201	125.2	180.6	208	264
SO4-D	mg/L	500	9.1	260	17	11	9.1	5.2
TSS	mg/L	25	2.4	2.4	<1.0	1.6	<1.0	<1.0
Alk-T	mg/L		94	190	170	120	130	120
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	1.2	<1.0
DOC	mg/L		1.9	5.8	1.5	1.3	2.1	2.1
Al-T	mg/L		0.0623	0.0587	0.009	0.0128	0.046	0.0474
As-T	mg/L		0.00048	0.00041	0.0003	0.00011	0.00046	0.00065
Ba-T	mg/L		0.0050	0.0164	0.0097	0.0032	0.0047	0.0046
B-T	mg/L		<0.050	0.071	<0.050	<0.050	<0.050	<0.050
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		26.9	118	51.7	24.5	30.3	33
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L		<0.00020	0.00033	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00136	0.00078	0.00062	<0.00050	0.00095	0.0007
Hard-T	mg/L		91.1	395	176	82.4	106	121
Fe-T	mg/L		0.124	0.156	0.066	0.014	0.067	0.064
Pb-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		5.81	24.5	11.3	5.17	7.45	9.33
Mn-T	mg/L		0.0346	0.105	0.0348	0.0088	0.0168	0.0159
Mo-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	0.0017	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.345	0.543	0.41	0.157	0.304	0.238
S-T	mg/L		<3.0	82.3	5.3	<3.0	<3.0	<3.0
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		4.61	2.01	5.46	4.85	5.04	4.98
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		2.90	13.7	5.74	3.31	2.88	2.84
Sr-T	mg/L		0.0914	0.459	0.18	0.0816	0.1	0.129
Zn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	0.00465	0.0033	<0.0030	<0.0030	0.0036	<0.0030
As-D	mg/L		0.000247	0.00032	0.00025	0.00011	0.00029	0.0006
Ba-D	mg/L		0.00294	0.0162	0.0103	0.0037	0.0066	0.0036
B-D	mg/L		0.014	0.068	<0.050	<0.050	<0.050	<0.050
Be-D	mg/L		<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.000045	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		29.9	115	58.1	28.6	38.9	34.6
Cr-D	mg/L		0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		0.0000243	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.014	0.000486	0.00043	0.00056	0.0004	0.00049	0.00051
Hard-D	mg/L		99.4	385	195	96.3	132	125
Fe-D	mg/L	0.35	0.0098	0.0219	0.0056	<0.0050	0.0072	0.0081
Pb-D	mg/L		0.0000065	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		6.02	23.6	12.2	6.02	8.52	9.42
Mn-D	mg/L		0.0149	0.0254	0.0258	0.0108	0.0092	0.013
Mo-D	mg/L		0.000095	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.000098	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.274	0.427	0.44	0.237	0.386	0.244
S-D	mg/L		<3.0	87.5	8.5	<3.0	<3.0	<3.0
Se-D	mg/L	0.016	<0.000040	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.57	2.12	6.2	4.76	4.63	4.76
Na-D	mg/L		2.90	13.5	6	3.56	3.33	2.81
Sr-D	mg/L		0.0990	0.493	0.186	0.0983	0.118	0.114
Zn-D	mg/L		0.00681	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 24 7 South Portal Sump 1 Page(s)

EMS ID		E292110										
Site Description		7 South Portal Sump										
Site Name		7SPS										
Date		2025-04-03	2025-05-05	2025-06-03	2025-07-02	2025-08-06	2025-10-02	2025-11-04	2025-12-02	2026-01-05	2026-02-03	2026-03-03
pH-F	pH Units	7.32	7.18	7.48	7.66	7.7	3.3		6.61	6.63	7.16	6.81
Cond-F	uS/cm	417	650	631	733	858	779		580	500.1	370	527
SO4-D	mg/L	130	210	190	230	310	310	270	230	130	120	170
TSS	mg/L	4.4	4.4	2	5.2	6.8	46	16		14	11	8.8
Alk-T	mg/L	77	130	140	120	140	<1.0	26	67	94	60	69
Acidity83	mg/L	1.7	2.6	<1.0	<1.0	2.4	112	3.5	10.3	1.1	2.7	2.3
Al-T	mg/L	0.418	0.0389	0.141	0.196	0.0092	3.15	0.321	0.241	0.199	0.273	0.177
As-T	mg/L	0.00168	0.00042	0.00052	0.00107	0.00035	0.00753	0.00057	0.00056	0.00065	0.00086	0.00081
Ba-T	mg/L	0.0131	0.0108	0.0157	0.0212	0.0202	0.0278	0.0169	0.0127	0.0134	0.0125	0.0105
B-T	mg/L	<0.050	0.057	0.069	0.085	0.143	<0.25	0.081	0.054	0.063	0.05	<0.050
Cd-T	mg/L	0.000023	<0.000010	<0.000010	<0.000010	<0.000010	0.000226	0.000082	0.000038	0.000019	0.000022	0.00002
Ca-T	mg/L	58.4	90.0	92.9	96.4	130	73.5	93.6	80.7	61.8	49.8	62.2
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0066	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00184	0.00096	0.00052	0.00049	0.00059	0.0258	0.0117	0.00582	0.00311	0.00301	0.00292
Cu-T	mg/L	0.00438	0.00103	0.00155	0.00228	0.00061	0.0772	0.0119	0.00478	0.00338	0.0047	0.00318
Hard-T	mg/L	201	308	314	324	437	253	325	285	213	176	219
Fe-T	mg/L	4.05	1.87	0.818	0.949	2.13	35.4	8.47	5.43	2.87	3.52	3.56
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	13.3	20.2	20.3	20.3	27.4	16.9	22.1	20.1	14.1	12.4	15.5
Mn-T	mg/L	0.136	0.108	0.0435	0.0316	0.140	0.854	0.346	0.213	0.128	0.118	0.163
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0042	0.0027	0.0020	0.0019	0.0020	0.0439	0.0214	0.0113	0.0063	0.0061	0.0069
K-T	mg/L	0.586	0.631	0.696	0.877	1.26	1.20	0.875	0.663	0.673	0.693	0.551
S-T	mg/L	43.3	69.6	66.5	74.6	113	119	104	78.0	51.1	43.4	54.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	5.07	4.73	4.87	4.56	5.95	5.73	6.77	5.78	4.79	5.13	5.37
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	4.18	9.12	9.56	9.84	13.9	3.31	4.58	5.18	3.85	3.45	4.51
Sr-T	mg/L	0.217	0.316	0.339	0.374	0.473	0.269	0.327	0.279	0.211	0.17	0.246
Zn-T	mg/L	0.0168	<0.0050	0.0064	<0.0050	<0.0050	0.074	0.0376	0.0206	0.0123	0.0105	0.0113
Al-D	mg/L	0.00909	0.0054	0.0069	0.0057	<0.0030	3.12	0.0241	0.0090	0.0061	0.01	0.008
As-D	mg/L	0.000202	0.00035	0.00025	0.00031	0.00025	0.00259	0.00029	0.00033	0.00028	0.00029	0.00035
Ba-D	mg/L	0.0106	0.0120	0.0153	0.0208	0.0191	0.0259	0.016	0.0133	0.0131	0.0108	0.0093
B-D	mg/L	0.042	0.080	0.067	0.081	0.082	0.124	0.085	0.068	0.059	0.054	<0.050
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00033	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-D	mg/L	0.0000112	<0.000010	0.000011	<0.000010	<0.000010	0.000197	0.000074	0.000043	0.000019	0.000017	0.00002
Ca-D	mg/L	55.2	99.7	91.6	93.3	131	76.2	91.2	82.5	67.1	50.4	64.5
Cr-D	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	0.0066	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00116	0.00103	0.00039	<0.00020	0.00036	0.0283	0.0115	0.00637	0.00335	0.00306	0.00301
Cu-D	mg/L	0.000979	0.00070	0.00090	0.00092	0.00046	0.0801	0.00812	0.00215	0.00147	0.0018	0.00126
Hard-D	mg/L	182	346	314	312	446	261	318	283	229	174	224
Fe-D	mg/L	0.180	0.193	0.0558	0.105	0.202	32.9	6.09	3.37	1.22	1.12	1.55
Pb-D	mg/L	<0.000050	<0.00020	<0.00020	<0.00020	<0.00020	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	10.7	23.5	20.6	19.1	28.7	17.3	21.9	18.8	14.9	11.7	15.2
Mn-D	mg/L	0.103	0.115	0.0366	0.0142	0.0914	0.916	0.34	0.229	0.141	0.121	0.15
Mo-D	mg/L	0.000080	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.00279	0.0026	0.0019	0.0016	0.0020	0.0462	0.0206	0.0121	0.0067	0.0062	0.0064
K-D	mg/L	0.503	0.700	0.709	0.851	1.30	1.21	0.837	0.686	0.657	0.598	0.545
S-D	mg/L	39.6	81.3	67.9	77.9	112	120	99.4	76.8	55.1	37.6	56.1
Se-D	mg/L	0.000056	<0.00010	<0.00010	<0.00010	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.07	5.22	4.64	4.22	5.59	6.17	7.13	5.39	5.02	4.72	5.24
Na-D	mg/L	3.50	10.2	9.62	9.36	15.4	3.42	4.56	5.13	4.07	3.23	4.51
Sr-D	mg/L	0.205	0.367	0.334	0.359	0.489	0.249	0.31	0.283	0.234	0.158	0.211
Zn-D	mg/L	0.00569	<0.0050	0.0119	<0.0050	<0.0050	0.0735	0.0359	0.0230	0.0125	0.0114	0.0117

Appendix 1 - Tables

Table 25 Road Side Crossing Bridge on Stream 1 above the Lower Wetland 1 Page(s)

EMS ID		E292109 Max-WQG									
Site Descr Road Side Crossing Bridge on Stream 1 above the L											
Site Name		7S Std Val									
Date		Max	2025-04-01	2025-05-05	2025-06-03	2025-10-01	2025-11-04	2025-12-02	2026-01-05	2026-02-03	2026-03-03
SG	m		0.22		0.19		0.225		0.22		0.23
pH-F	pH Units		7.65	6.96	7.04	6.67	7.01	7.15	7.4	6.32	6.91
Cond-F	uS/cm		59.6	47.5	54.6	108.3	41.9	36.5	45	32.8	36.2
SO4-D	mg/L		<1.0	2.0	1.4	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
TSS	mg/L		<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		12	23	27	29	16	14	15	13	12
Acidity83	mg/L		1.6	<1.0	<1.0	2.1	1.1	<1.0	1	1.1	<1.0
DOC	mg/L		2.3	1.2	1.2	3.3	2.4	2.2	2.2	2.9	<0.50
Al-T	mg/L		0.0297	0.0462	0.0478	0.0265	0.0333	0.0345	0.0292	0.0416	0.0307
As-T	mg/L		<0.00010	<0.00010	<0.00010	0.00012	0.00011	0.00010	<0.00010	<0.00010	<0.00010
Ba-T	mg/L		0.0010	0.0021	0.0026	0.0027	0.0015	0.0012	0.0012	0.0013	0.0012
B-T	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000014	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		3.48	5.73	6.29	7.53	4.33	4.11	3.75	3.38	3.3
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		<0.00050	<0.00050	<0.00050	0.00054	<0.00050	<0.00050	<0.00050	0.00089	<0.00050
Hard-T	mg/L		12.0	19.6	21.5	26.2	15	14.4	13	11.8	11.7
Fe-T	mg/L	1.0	<0.010	0.038	0.030	<0.010	<0.010	0.011	<0.010	0.015	<0.010
Pb-T	mg/L	0.0176	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		0.806	1.29	1.41	1.79	1.01	1.02	0.88	0.816	0.834
Mn-T	mg/L	0.8706	<0.0010	0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	46.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.073	0.083	0.074	0.110	0.08	0.079	0.072	0.09	0.093
S-T	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		3.47	4.47	4.54	5.51	4.56	4.56	4.21	3.86	3.95
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		1.39	1.70	1.91	2.67	1.81	1.76	1.59	1.45	1.43
Sr-T	mg/L		0.0141	0.0227	0.0269	0.0314	0.0187	0.0170	0.0155	0.0132	0.0143
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L		0.0310	0.0159	0.0139	0.0265	0.0325	0.0227	0.027	0.0345	0.0288
As-D	mg/L		0.000088	0.000067	<0.00010	0.00011	0.0001	<0.00010	<0.00010	0.00011	<0.00010
Ba-D	mg/L		0.00127	0.00188	0.0022	0.0026	0.0015	0.0012	0.0012	0.0012	0.0011
B-D	mg/L		<0.010	0.044	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Be-D	mg/L		<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		3.98	5.80	6.82	7.66	4.33	4.00	3.79	3.36	3.46
Cr-D	mg/L		0.00012	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		0.0000179	0.0000140	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	*	0.000317	0.000563	<0.00020	0.00046	0.00033	<0.00020	0.0003	0.00035	0.00028
Hard-D	mg/L		13.3	20.2	23.5	26.3	15	13.7	13.1	11.6	12
Fe-D	mg/L		0.0059	0.0017	<0.0050	0.0071	0.0054	<0.0050	<0.0050	0.0073	0.0051
Pb-D	mg/L		0.0000091	0.0000160	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		0.824	1.39	1.57	1.75	1.02	0.908	0.874	0.768	0.822
Mn-D	mg/L		0.000108	<0.000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-D	mg/L		<0.000050	<0.000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.000041	<0.000020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.091	0.090	0.082	0.120	0.08	0.065	0.07	0.088	0.084
S-D	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-D	mg/L		<0.000040	0.000109	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.70	4.80	4.93	5.76	5.12	3.91	4.19	3.86	3.97
Na-D	mg/L		1.40	1.78	2.10	2.77	1.8	1.51	1.59	1.39	1.37
Sr-D	mg/L		0.0153	0.0240	0.0294	0.0319	0.0176	0.0155	0.016	0.0124	0.0135
Zn-D	mg/L		0.00876	<0.00010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Stream was dry July through to October.

Table 26 Discharge From Settling Pond #4 2 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)												
Date	April Max. (m ³ /s)	April Daily (m ³ /s)	May Max. (m ³ /s)	May Daily (m ³ /s)	June Max. (m ³ /s)	June Daily (m ³ /s)	July Max. (m ³ /s)	July Daily (m ³ /s)	August Max. (m ³ /s)	August Daily (m ³ /s)	September Max. (m ³ /s)	September Daily (m ³ /s)
1	0.1160	0.1020	0.0290	0.0210	0.0230	0.0190	0.15	0.144	0.1030	0.0920	0.0960	0.0880
2	0.1020	0.0910	0.0300	0.0210	0.0240	0.0150	0.15	0.125	0.1050	0.0930	0.0910	0.0660
3	0.0930	0.0840	0.0300	0.0230	0.0220	0.0150	0.136	0.096	0.1010	0.0920	0.0950	0.0810
4	0.0890	0.0810	0.0270	0.0150	0.0460	0.0260	0.144	0.131	0.1000	0.0910	0.0560	0.0300
5	0.0850	0.0810	0.0200	0.0100	0.0730	0.0340	0.089	0.078	0.0990	0.0900	0.0270	0.0170
6	0.0840	0.0810	0.0130	0.0070	0.0800	0.0740	0.086	0.08	0.0990	0.0950	0.0200	0.0120
7	0.0860	0.0830	0.0100	0.0060	0.0830	0.0760	0.11	0.086	0.0970	0.0900	0.0160	0.0100
8	0.0830	0.0800	0.0070	0.0030	0.0830	0.0750	0.14	0.105	0.0970	0.0890	0.0150	0.0130
9	0.0820	0.0750	0.0060	0.0020	0.0810	0.0750	0.101	0.087	0.0970	0.0750	0.0270	0.0200
10	0.0680	0.0610	0.0040	0.0010	0.0830	0.0740	0.084	0.08	0.0500	0.0270	0.0230	0.0170
11	0.0750	0.0680	0.0040	0.0010	0.0810	0.0710	0.081	0.076	0.0290	0.0140	0.0180	0.0120
12	0.0760	0.0690	0.0040	0.0020	0.0800	0.0720	0.084	0.075	0.0180	0.0100	0.0160	0.0100
13	0.0750	0.0640	0.0050	0.0020	0.0810	0.0660	0.104	0.081	0.0130	0.0070	0.0140	0.0110
14	0.0720	0.0660	0.0040	0.0010	0.0780	0.0700	0.132	0.095	0.0130	0.0050	0.0130	0.0100
15	0.0720	0.0560	0.0030	0.0010	0.0800	0.0750	0.133	0.118	0.0100	0.0050	0.0120	0.0080
16	0.0660	0.0460	0.0010	0.0000	0.0820	0.0740	0.087	0.076	0.0120	0.0090	0.0100	0.0040
17	0.0310	0.0110	0.0060	0.0020	0.0810	0.0740	0.116	0.082	0.0110	0.0060	0.0030	0.0010
18	0.0140	0.0060	0.0160	0.0070	0.0800	0.0780	0.123	0.092	0.0090	0.0060	0.0030	0.0010
19	0.0110	0.0060	0.0160	0.0090	0.0830	0.0770	0.129	0.113	0.0090	0.0060	0.0020	0.0000
20	0.0110	0.0060	0.0170	0.0100	0.0820	0.0760	0.122	0.101	0.0820	0.0240	0.0010	0.0000
21	0.0110	0.0060	0.0120	0.0080	0.0800	0.0750	0.099	0.078	0.0930	0.0840	0.0030	0.0010
22	0.0110	0.0050	0.0120	0.0060	0.0800	0.0480	0.107	0.096	0.0950	0.0860	0.0040	0.0020
23	0.0100	0.0050	0.0090	0.0040	0.1120	0.0610	0.103	0.094	0.0950	0.0860	0.0030	0.0010
24	0.0320	0.0140	0.0070	0.0040	0.1110	0.0890	0.107	0.095	0.0960	0.0870	0.0020	0.0010
25	0.0330	0.0230	0.0060	0.0030	0.0820	0.0770	0.099	0.091	0.0960	0.0880	0.0020	0.0000
26	0.0320	0.0230	0.0430	0.0160	0.0810	0.0540	0.103	0.092	0.0960	0.0880	0.0010	0.0000
27	0.0320	0.0230	0.0360	0.0230	0.1140	0.0570	0.101	0.09	0.0970	0.0870	0.0030	0.0000
28	0.0320	0.0220	0.0250	0.0180	0.1150	0.0980	0.101	0.08	0.0970	0.0890	0.0120	0.0090
29	0.0310	0.0290	0.0230	0.0160	0.1350	0.1010	0.101	0.092	0.0970	0.0890	0.0180	0.0120
30	0.0300	0.0240	0.0250	0.0190	0.1460	0.1410	0.104	0.09	0.0970	0.0890	0.0170	0.0120
31			0.0240	0.0190			0.103	0.092	0.0970	0.0920		
Monthly Max	0.1160		0.0430		0.1460		0.1500		0.1050		0.0960	
Monthly Avg		0.0464		0.0090		0.0672		0.0939		0.0610		0.0150

TSS is required weekly when daily Max flow is >0.054 m³/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 26 Discharge From Settling Pond #4 2 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)												
Date	October Max. (m3/s)	October Daily (m3/s)	November Max. (m3/s)	November Daily (m3/s)	December Max. (m3/s)	December Daily (m3/s)	January Max. (m3/s)	January Daily (m3/s)	February Max. (m3/s)	February Daily (m3/s)	March Max. (m3/s)	March Daily (m3/s)
1	0.0290	0.0140	0.0510	0.0400	0.0200	0.0150	0.098	0.092	0.0813	0.0628	0.0349	0.0175
2	0.0660	0.0420	0.0480	0.0400	0.0180	0.0170	0.09561	0.090455323	0.0480	0.0388	0.0764	0.0527
3	0.0600	0.0360	0.0410	0.0310	0.0810	0.0380	0.127997	0.116049417	0.0357	0.0325	0.0622	0.0341
4	0.0400	0.0270	0.0340	0.0280	0.0880	0.0860	0.119383	0.100289115	0.0367	0.0298	0.0413	0.0333
5	0.0320	0.0190	0.1120	0.0460	0.1130	0.1000	0.103062	0.091563135	0.0293	0.0228	0.0424	0.0345
6	0.0180	0.0100	0.1440	0.1370	0.1050	0.0990	0.10093	0.095028865	0.0285	0.0245	0.0422	0.0382
7	0.0800	0.0280	0.1430	0.1320	0.1110	0.0960	0.099012	0.091664594	0.0400	0.0334	0.0298	0.0211
8	0.0830	0.0700	0.1350	0.1250	0.1150	0.1000	0.101412	0.085829281	0.0362	0.0287	0.0224	0.0155
9	0.0380	0.0220	0.1290	0.1060	0.1360	0.1170	0.057471	0.034673865	0.0601	0.0290	0.0315	0.0177
10	0.0170	0.0130	0.1050	0.1000	0.1310	0.1120	0.032309	0.027142667	0.0643	0.0411	0.0282	0.0191
11	0.0220	0.0130	0.1080	0.0970	0.1350	0.1290	0.058304	0.031545031	0.0380	0.0259	0.0255	0.0184
12	0.0250	0.0180	0.0990	0.0930	0.1320	0.1190	0.099681	0.082397063	0.0340	0.0262	0.0252	0.0211
13	0.0190	0.0110	0.0990	0.0930	0.1240	0.1170	0.101316	0.071741125	0.0252	0.0220	0.0228	0.0157
14	0.0120	0.0070	0.1340	0.1200	0.1200	0.1080	0.05378	0.042412188	0.0298	0.0235	0.0250	0.0144
15	0.0090	0.0050	0.1070	0.1000	0.1380	0.1280	0.03943	0.029707594	0.0518	0.0261	0.0208	0.0179
16	0.0070	0.004	0.1050	0.1000	0.1530	0.1380	0.033016	0.025251021	0.0626	0.0577	0.0721	0.0399
17	0.0070	0.0060	0.1370	0.1080	0.1300	0.0740	0.028608	0.022161677	0.0520	0.0398	0.0719	0.0543
18	0.0080	0.0040	0.1430	0.1370	0.1340	0.1260	0.02576	0.019549885	0.0295	0.0189	0.0536	0.0441
19	0.0100	0.0100	0.1100	0.0930	0.1220	0.1170	0.0271	0.02018201	0.0192	0.0125	0.0453	0.0370
20	0.0000	0.0000	0.0990	0.0800	0.1410	0.1120	0.028003	0.02068701	0.0188	0.0148	0.0404	0.0357
21	0.0000	0.0000	0.0480	0.0330	0.1600	0.1540	0.028154	0.020441344	0.0298	0.0215	0.0360	0.0226
22	0.0110	0.0080	0.0270	0.0250	0.1490	0.1070	0.026131	0.020229417	0.0615	0.0388	0.0288	0.0197
23	0.0250	0.0150	0.0330	0.0280	0.1320	0.1070	0.024876	0.019238458	0.0633	0.0433	0.0249	0.0177
24	0.0570	0.0280	0.0290	0.0220	0.1250	0.1010	0.024144	0.017804583	0.0639	0.0391	0.0281	0.0236
25	0.0740	0.0610	0.0220	0.0180	0.1030	0.0970	0.025096	0.018766365	0.0431	0.0343	0.0266	0.0203
26	0.0690	0.0490	0.0200	0.0180	0.1030	0.0940	0.020844	0.01776874	0.0367	0.0298	0.0261	0.0178
27	0.0610	0.0440	0.0180	0.0160	0.1010	0.0920	0.02284	0.019155635	0.0318	0.0235	0.0218	0.0175
28	0.0410	0.0280	0.0260	0.0220	0.0980	0.0900	0.02429	0.021392948	0.0252	0.0188	0.0204	0.0144
29	0.0570	0.0360	0.0270	0.0200	0.0970	0.0910	0.031295	0.024418469			0.0206	0.0133
30	0.0580	0.0440	0.0220	0.0180	0.0930	0.0890	0.08765	0.0664395			0.0202	0.0118
31	0.0370	0.0310			0.0950	0.0890	0.09787	0.092860406			0.0182	0.0129
Monthly Max	0.0830		0.1440		0.1600		0.1280		0.0813		0.0764	
Monthly Avg		0.0227		0.0675		0.0987		0.0493		0.0307		0.0250

TSS is required weekly when daily Max flow is >0.054 m3/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Table 27 Discharge From Settling Pond #1 2 Page(s)

EMS ID E218582												
Discharge From Settling Pond #1 (SP1/SPD)												
Date	April	April	May	May	June	June	July	July	August	August	September	September
	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)
1	0.0341	0.0341	0.0368	0.0166	0.0038	0.0022	NF	NF	NF	NF	NF	NF
2	0.0160	0.0160	0.0107	0.0042	0.0166	0.0034	NF	NF	NF	NF	NF	NF
3	0.0160	0.0160	0.0117	0.0055	0.0203	0.0102	NF	NF	NF	NF	NF	NF
4	0.0160	0.0091	0.0107	0.0052	0.1794	0.0517	NF	NF	NF	NF	NF	NF
5	0.0091	0.0001	0.0064	0.0015	0.0109	0.0059	NF	NF	NF	NF	NF	NF
6	0.0341	0.0160	0.0064	0.0032	0.0082	0.0041	NF	NF	NF	NF	NF	NF
7	0.0160	0.0160	0.0031	0.0015	0.0065	0.0032	NF	NF	NF	NF	NF	NF
8	0.0160	0.0091	0.0038	0.0017	0.0049	0.0019	NF	NF	NF	NF	NF	NF
9	0.0091	0.0013	0.0136	0.0047	0.0019	0.0007	NF	NF	NF	NF	NF	NF
10	0.0499	0.0445	0.0166	0.0111	0.0006	0.0002	NF	NF	NF	NF	NF	NF
11	0.0474	0.0268	0.0080	0.0051	0.0090	0.0056	NF	NF	NF	NF	NF	NF
12	0.0117	0.0066	0.0117	0.0035	0.0119	0.0100	NF	NF	NF	NF	NF	NF
13	0.0098	0.0076	0.0107	0.0057	0.0109	0.0073	NF	NF	NF	NF	NF	NF
14	0.0368	0.0255	0.0063	0.0024	0.0100	0.0058	NF	NF	NF	NF	NF	NF
15	0.0254	0.0147	0.0038	0.0025	0.0082	0.0040	NF	NF	NF	NF	NF	NF
16	0.0179	0.0092	0.0071	0.0044	NF	NF	NF	NF	NF	NF	NF	NF
17	0.0354	0.0123	0.0145	0.0078	NF	NF	NF	NF	NF	NF	NF	NF
18	0.0462	0.0404	0.0216	0.0115	NF	NF	NF	NF	NF	NF	NF	NF
19	0.0354	0.0173	0.0216	0.0135	NF	NF	NF	NF	NF	NF	NF	NF
20	0.0107	0.0072	0.0088	0.0049	NF	NF	NF	NF	NF	NF	NF	NF
21	0.0088	0.0054	0.0071	0.0042	NF	NF	NF	NF	NF	NF	NF	NF
22	0.0080	0.0021	0.0071	0.0031	NF	NF	NF	NF	NF	NF	NF	NF
23	0.0072	0.0038	0.0055	0.0042	NF	NF	NF	NF	NF	NF	NF	NF
24	0.0064	0.0039	0.0191	0.0088	NF	NF	NF	NF	NF	NF	NF	NF
25	0.0064	0.0026	0.0178	0.0114	NF	NF	NF	NF	NF	NF	NF	NF
26	0.0055	0.0023	0.0071	0.0036	NF	NF	NF	NF	NF	NF	NF	NF
27	0.0047	0.0013	0.0055	0.0029	NF	NF	NF	NF	NF	NF	NF	NF
28	0.0047	0.0032	0.0047	0.0012	NF	NF	NF	NF	NF	NF	NF	NF
29	0.0047	0.0021	0.0055	0.0033	NF	NF	NF	NF	NF	NF	NF	NF
30	0.0354	0.0118	0.0055	0.0036	NF	NF	NF	NF	NF	NF	0.0059	0.0028
31			0.0047	0.0022			NF	NF	NF	NF		
Monthly Max	0.0499		0.0368		0.1794		0.0000		0.0000		0.0059	
Monthly Avg		0.0123		0.0053		0.0077	#DIV/0!		#DIV/0!		0.0028	

TSS is required weekly when daily Max flow is > 0.046 m³/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 27 Discharge From Settling Pond #1 2 Page(s)

EMS ID E218582												
Discharge From Settling Pond #1 (SP1/SPD)												
Date	October	October	November	November	December	December	January	January	February	February	March	March
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)
1	0.0416	0.0155	0.0867	0.0778	0.0443	0.0248	0.034	0.0256	0.1185	0.1109	0.0877	0.0694
2	0.0430	0.0325	0.0817	0.0618	0.0222	0.0185	0.016	0.0223	0.1088	0.0979	0.0443	0.0362
3	0.0430	0.0201	0.0767	0.0580	0.0530	0.0359	0.088	0.0539	0.0877	0.0702	0.0534	0.0414
4	0.0455	0.0351	0.0767	0.0675	0.0575	0.0410	0.088	0.0757	0.0534	0.0522	0.0443	0.0384
5	0.0173	0.0088	0.1337	0.0989	0.0668	0.0577	0.044	0.0381	0.0443	0.0361	0.0341	0.0326
6	0.0076	0.0047	0.1351	0.1228	0.0605	0.0490	0.044	0.0397	0.0534	0.0430	0.0534	0.0464
7	0.0068	0.0039	0.1085	0.0997	0.0347	0.0317	0.064	0.0399	0.0877	0.0729	0.0443	0.0443
8	0.0043	0.0026	0.0979	0.0926	0.0833	0.0534	0.197	0.0918	0.0877	0.0755	0.0877	0.0628
9	0.0035	0.0025	0.0883	0.0832	0.0867	0.0587	0.076	0.0523	0.0534	0.0381	0.0877	0.0744
10	0.0402	0.0093	0.0850	0.0762	0.1127	0.0858	0.044	0.0377	0.0534	0.0460	0.0764	0.0621
11	0.0443	0.0270	0.0652	0.0539	0.1113	0.1012	0.076	0.0498	0.0341	0.0338	0.0534	0.0393
12	0.0141	0.0082	0.0652	0.0404	0.0979	0.0871	0.182	0.1295	0.0534	0.0395	0.0341	0.0330
13	0.0076	0.0045	0.0938	0.0794	0.0938	0.0815	0.182	0.1433	0.0534	0.0396	0.0443	0.0380
14	0.0068	0.0038	0.0620	0.0501	0.0850	0.0732	0.119	0.1077	0.0341	0.0321	0.0443	0.0305
15	0.0493	0.0125	0.0652	0.0521	0.1364	0.1190	0.099	0.0791	0.0443	0.0393	0.0764	0.0407
16	0.0493	0.0408	0.0767	0.0493	0.1207	0.1113	0.076	0.0621	0.0764	0.0610	0.0877	0.0811
17	0.0222	0.0123	0.0784	0.0718	0.1220	0.1088	0.076	0.0719	0.0764	0.0582	0.0989	0.0893
18	0.0151	0.0099	0.0636	0.0487	0.1009	0.0861	0.064	0.0523	0.0341	0.0263	0.1185	0.1005
19	0.0112	0.0091	0.0517	0.0411	0.0800	0.0658	0.044	0.038	0.0341	0.0272	0.1185	0.1121
20	0.0084	0.0074	0.0416	0.0294	0.0850	0.0799	0.016	0.0225	0.0341	0.0299	0.1088	0.0998
21	0.0084	0.0074	0.0361	0.0245	0.0867	0.0652	0.016	0.0187	0.0534	0.0328	0.0989	0.0924
22	0.0321	0.0176	0.0530	0.0436	0.0685	0.0451	0.016	0.018	0.1279	0.0976	0.0989	0.0907
23	0.0517	0.0262	0.0309	0.0249	0.0701	0.0545	0.044	0.027	0.1279	0.0974	0.0877	0.0806
24	0.1195	0.1000	0.0493	0.0271	0.0374	0.0346	0.053	0.0426	0.0989	0.0925	0.0534	0.0455
25	0.1154	0.1031	0.0430	0.0299	0.0620	0.0495	0.034	0.0267	0.0877	0.0767	0.0534	0.0442
26	0.1154	0.1046	0.0455	0.0300	0.0455	0.0319	0.016	0.0163	0.0534	0.0520	0.0341	0.0332
27	0.0965	0.0844	0.0575	0.0523	0.0590	0.0329	0.016	0.015	0.0764	0.0510	0.0534	0.0414
28	0.0784	0.0657	0.0493	0.0303	0.0734	0.0631	0.053	0.03	0.0877	0.0801	0.0443	0.0349
29	0.0938	0.0858	0.0235	0.0201	0.0455	0.0306	0.064	0.0384			0.0443	0.0329
30	0.0800	0.0597	0.0468	0.0309	0.0260	0.0220	0.182	0.1417			0.0341	0.0248
31	0.0938	0.0774			0.0334	0.0260	0.152	0.1254			0.0443	0.0285
Monthly Max	0.1195		0.135		0.1364		0.197		0.1279		0.119	
Monthly Avg		0.032		0.056		0.059		0.056		0.057		0.056

TSS is required weekly when daily Max flow is > 0.046 m3/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 28 Discharge From 7 South Surface 1 Page(s)

EMS ID E292069												
Discharge From 7 South Surface Decant Pond (7SSD)												
	April	May	June	July	August	September	October	November	December	January	February	March
Date	Daily Average L/S			Daily Average L/S			Daily Average L/S			Daily Average L/S		
1	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
2	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
3	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
4	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
5	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
6	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
7	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
8	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
9	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
10	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
11	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
12	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
30	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
31	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
Monthly Avg	0.000											
Annual Avg	0.000											
Cummulative Daily Totalizer Value												
For Maximum Decant Flow (5.00 L/s)												
No Flow = NF												

Appendix 1 - Tables

Table 29 2S Inflow and Outflow 1 Page(s)

EMS ID: E292127 2-South Pit Inflow													EMS ID: E292127 2-South Pit Outflow												
2S Inflow													2S Outflow Culvert into 3S Pit												
Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)	Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)
1	6.92						5.26		5.22				1	9.69	3.77	2.67	2.43	2.33	2.30	7.11	15.05	6.41	6.245	15.997	9.312
2			3.59	2.38		1.49					10.41	5.14	2	8.60	3.71	2.68	2.45	2.46	2.23	4.36	14.18	6.13	6.830	14.329	8.516
3								7.59					3	7.79	3.87	2.75	2.49	2.33	2.19	3.67	13.03	6.16	8.195	12.999	8.184
4													4	7.14	3.75	2.66	2.53	2.45	2.30	3.14	12.25	6.45	8.384	11.462	7.255
5		3.31			1.63					6.48			5	6.80	3.43	2.61	2.57	2.61	2.31	2.95	19.40	6.54	8.542	9.994	6.960
6							2.39						6	6.55	3.56	2.57	2.46	2.80	2.40	2.94	23.72	6.78	8.356	9.705	7.446
7				2.11									7	6.65	3.56	2.47	2.53	2.27	2.94	3.08	21.47	7.69	7.961	9.656	7.157
8									10.95				8	5.99	3.72	2.52	2.87	2.37	3.09	3.20	17.84	10.17	7.510	9.239	6.628
9			1.79								5.79	5.54	9	6.27	3.67	2.50	2.77	2.25	2.50	3.12	14.84	12.26	7.538	9.501	6.437
10								7.88					10	6.00	3.56	2.54	2.54	2.21	2.30	3.99	12.25	15.86	8.065	9.342	6.709
11					1.76								11	6.17	3.62	2.61	2.58	2.18	2.35	3.19	10.57	16.15	14.062	8.964	6.917
12										25.24			12	5.70	3.58	2.62	2.39	2.21	2.66	3.22	10.53	15.16	29.018	8.863	6.642
13													13	5.33	3.23	2.76	2.53	2.25	2.66	3.06	11.34	14.57	26.349	8.646	6.251
14				1.96			2.76						14	5.52	3.17	2.87	2.41	2.93	2.59	3.07	11.30	19.87	20.481	7.881	5.970
15					4.12			26.18					15	5.47	3.18	2.68	2.37	2.66	2.20	3.06	10.68	26.86	16.257	7.870	6.999
16			1.71										16	5.02	3.64	2.75	2.43	2.54	2.16	3.33	10.17	27.16	13.258	7.717	10.867
17								7.35			4.85		17	4.86	3.85	2.93	2.41	2.75	2.47	3.12	9.19	24.30	11.079	7.277	13.405
18													18	4.75	4.13	2.78	2.43	2.68	2.14	3.82	8.61	20.05	9.627	6.894	14.666
19										3.88			19	4.86	3.56	2.81	2.48	2.53	2.13	3.35	8.24	16.06	8.609	6.359	14.165
20		4.16											20	4.67	3.46	2.61	2.45	2.31	2.76	3.39	7.57	13.37	7.773	6.823	13.266
21													21	4.78	3.47	2.67	2.40	2.27	2.34	3.30	7.29	11.42	7.141	8.099	12.044
22									8.75				22	4.40	3.31	2.76	2.48	2.29	2.37	3.90	7.58	10.77	6.554	14.223	10.924
23			2.13								13.32	5.56	23	4.33	3.26	2.72	2.42	2.25	2.30	7.40	7.20	9.71	6.129	14.876	9.787
24								5.25					24	4.30	3.58	2.75	2.46	2.23	2.19	10.28	7.01	9.27	5.765	14.150	9.096
25					1.48		3.27						25	4.17	3.38	2.90	2.54	2.22	2.43	14.43	6.84	8.79	5.612	13.577	7.998
26		3.70											26	4.05	3.39	4.60	2.49	2.18	3.16	13.63	6.89	8.21	5.464	12.665	7.706
27							2.20						27	3.95	3.12	3.25	2.45	2.27	2.98	11.84	6.96	7.73	5.502	11.625	7.213
28				1.01									28	3.93	2.98	2.64	2.34	2.27	3.26	14.18	6.75	7.35	5.562	10.342	6.657
29													29	4.30	2.88	2.48	2.26	2.27	2.73	13.87	6.59	6.95	9.049		6.144
30									4.20				30	3.87	3.09	2.50	2.27	2.33	4.08	13.14	6.47	6.62	18.559		5.775
31													31		2.84		2.26	2.23		15.84		6.40	16.800		5.997
Flow rates capture weekly with timed bucket teests. This form of measurement is more accurate than the continuous onsite level logger with weir to flow calculations.																									

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Water Level				
EMS ID: E292131				
Site LLS				
Weeks	Level (m)	Comments	Weeks	Level
1	0.009	Not reaching the lake. The weir is almost dry. Still visibly percolating from the ground.	32	0.000
2	0.009		33	0.000
3	0.009		34	0.000
4	0.009		35	0.000
5	0.009		36	0.000
6	0.009		37	0.000
7	0.009		38	0.000
8	0.009		39	0.000
9	0.009		40	0.000
10	0.009		41	0.009
11	0.009		42	0.000
12	0.009		43	0.000
13	0.009		44	0.009
14	0.009		45	0.000
15	0.009		46	0.000
16	0.009		47	0.000
17	0.000		48	0.000
18	0.000		49	0.009
19	0.000		50	0.000
20	0.000		51	0.000
21	0.000		52	0.000
22	0.000			
23	0.000			
24	0.000			
25	0.000			
26	0.000			
27	0.000			
28	0.000			
29	0.000			
30	0.000			
31	0.000			

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Weekly Flow Requirements (L/s)												
EMS ID: E292131												
Site LLSM												
Flow (L/s)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	14.629	NF	NF	NF	NF	NF	NF	3.41	7.78	9.96	9.20	10.84
2	14.629	NF	NF	NF	NF	NF	NF	3.41	7.78	9.96	10.76	10.84
3	14.629	NF	NF	NF	NF	NF	NF	3.41	7.78	9.96	10.76	10.84
4	14.629	NF	NF	NF	NF	NF	NF	18.44	7.78	8.48	10.76	10.84
5	14.629	NF	NF	NF	NF	NF	NF	18.44	7.78	8.48	10.76	10.85
6	14.629	NF	NF	NF	NF	NF	NF	18.44	7.78	8.48	10.76	10.85
7	7.783	NF	NF	NF	NF	NF	NF	18.44	7.78	8.48	10.76	10.85
8	23.574	NF	NF	NF	NF	NF	NF	18.44	6.50	8.48	10.76	10.85
9	6.403	NF	NF	NF	NF	NF	NF	18.44	6.50	8.48	10.76	10.85
10	2.028	NF	NF	NF	NF	NF	NF	18.44	6.50	8.48	10.76	10.85
11	0.921	NF	NF	NF	NF	NF	NF	14.30	6.50	8.48	10.76	10.85
12	0.272	NF	NF	NF	NF	NF	NF	14.30	6.50	8.48	10.76	10.85
13	0.247	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.76	10.85
14	9.201	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.76	10.71
15	0.470	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.76	10.06
16	0.293	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.76	10.01
17	0.318	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.76	10.82
18	1.836	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.84	10.82
19	0.585	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.84	10.82
20	0.249	NF	NF	NF	NF	NF	NF	14.30	38.08	8.48	10.71	10.82
21	0.134	NF	NF	NF	NF	NF	NF	14.30	38.08	9.20	10.04	10.82
22	0.263	NF	NF	NF	NF	NF	NF	14.30	38.08	9.20	10.32	10.82
23	0.112	NF	NF	NF	NF	NF	NF	14.30	38.08	9.20	10.84	14.69
24	0.109	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20	10.84	18.55
25	0.085	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20	10.84	18.55
26	0.075	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20	10.84	18.55
27	0.036	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20	10.84	18.55
28	0.021	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20	10.84	18.55
29	NF	NF	NF	NF	NF	NF	NF	9.20	38.08	9.20		18.55
30	NF	NF	NF	NF	NF	NF	NF	9.20	9.96	9.20		18.55
31		NF		NF	NF		NF		9.96	9.20		18.13
Notes: No flow = NF In May, the seep was flowing but not reaching the lake or flowing through H-Flume.												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Continuous Flow Requirements (L/s)												
EMS ID: E292109												
Site 7S												
Flow (L/s)	Estimated Flow											
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	3.91	0.27	0.25	0.06	NF	NF	0.6215	5.71	3.12	1.99	18.36	5.35
2	2.52	0.23	0.22	0.05	NF	NF	2.7981	3387.39	2.31	1.65	11.79	4.06
3	1.95	0.25	0.20	0.03	NF	NF	5.11	5.30	2.20	4.04	4.04	1.62
4	1.71	0.24	0.15	0.02	NF	NF	1.9913	3.74	3.85	3.40	4.35	3.34
5	1.45	0.20	0.13	0.01	NF	NF	1.1696	9.28	8.88	2.94	4.74	2.80
6	1.32	0.16	0.11	NF	NF	NF	0.9185	19.50	7.13	4.09	4.00	3.25
7	1.19	0.16	0.09	NF	NF	NF	0.7363	11.83	7.51	2.73	4.16	4.00
8	0.78	0.18	0.06	NF	NF	NF	0.7240	7.93	11.27	2.19	4.78	4.71
9	1.44	0.16	0.04	NF	NF	NF	0.4864	4.93	13.99	2.11	4.21	4.02
10	1.50	0.15	0.02	NF	NF	NF	0.0982	2.13	26.97	2.46	2.61	2.23
11	1.75	0.14	0.01	NF	NF	NF	0.5861	3.13	14.56	3.85	2.60	3.00
12	1.53	0.13	NF	NF	NF	NF	1.0283	1.40	15.96	56.99	2.13	2.83
13	1.45	0.12	NF	NF	NF	NF	0.7901	2.52	17.62	21.13	2.88	2.72
14	1.09	0.12	NF	NF	NF	NF	0.7369	4.74	15.94	8.15	3.56	2.28
15	0.84	0.13	NF	NF	NF	NF	0.3931	4.64	27.75	5.72	3.13	2.62
16	0.75	0.13	NF	NF	NF	NF	0.6025	4.77	21.17	3.82	2.69	6.76
17	0.70	0.22	NF	NF	NF	NF	0.5888	3.27	15.07	2.03	1.52	9.69
18	0.64	0.34	NF	NF	NF	NF	0.48	3.21	10.25	2.26	1.58	9.85
19	0.62	0.45	NF	NF	NF	NF	0.79	1.91	4.67	2.06	2.14	6.82
20	0.61	0.41	NF	NF	NF	NF	0.75	0.00	3.59	1.74	1.98	5.23
21	0.57	0.50	NF	NF	NF	NF	0.31	0.00	3.33	1.62	2.09	4.67
22	0.53	0.45	NF	NF	NF	NF	0.87	0.00	3.08	1.50	24.47	3.98
23	0.47	0.42	NF	NF	NF	NF	0.91	0.00	4.19	1.35	22.19	3.39
24	0.41	0.39	NF	NF	NF	NF	1.55	0.02	4.26	1.40	12.02	2.71
25	0.36	0.34	NF	NF	NF	NF	18.96	2.73	3.63	1.24	6.75	2.41
26	0.33	0.31	NF	NF	NF	NF	23.47	1.37	2.85	1.06	7.03	2.38
27	0.31	0.31	0.10	NF	NF	NF	16.66	6.04	2.14	1.10	7.81	2.18
28	0.34	0.20	0.18	NF	NF	0.06	6.95	5.67	2.20	1.36	7.22	1.89
29	0.32	0.22	0.13	NF	NF	0.43	11.61	5.27	2.34	2.06		1.71
30	0.31	0.28	0.09	NF	NF	0.62	11.26	3.32	1.50	242.89		1.70
31		0.25		NF	NF		7.09		1.22	41.89		1.39
Notes: No flow = NF												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: 126402												
Site WA												
Flow (m ³ /s)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	2.2	1.29	1.31	1.08	0.80	0.79	1.14	16.60	2.49	2.330	18.700	2.450
2	2.19	1.29	1.30	1.10	0.80	0.78	1.08	14.20	2.26	2.780	18.300	2.450
3	2.17	1.29	1.30	1.10	0.81	0.86	1.05	11.60	2.25	2.670	17.500	2.450
4	2.16	1.29	1.30	1.11	0.80	0.93	1.03	12.40	2.38	3.000	12.100	2.450
5	2.16	1.29	1.30	1.11	0.80	0.95	1.01	20.80	2.74	3.450	10.400	2.450
6	2.16	1.29	1.30	1.15	0.80	0.97	1.00	23.40	3.16	3.500	8.560	2.460
7	2.16	1.30	1.31	1.12	0.80	1.00	1.00	19.00	4.76	3.630	8.330	2.470
8	2.17	1.30	1.31	1.07	0.80	0.96	0.99	14.20	7.83	3.550	9.720	2.470
9	2.17	1.30	1.23	1.08	0.80	0.96	1.00	12.00	10.10	3.340	8.920	2.460
10	2.18	1.30	1.14	1.09	0.80	0.96	1.02	9.84	12.90	3.140	8.300	2.450
11	2.18	1.30	1.10	1.09	0.80	0.96	1.02	8.08	12.10	3.190	7.300	2.450
12	2.17	1.30	1.19	1.08	0.80	0.96	1.04	8.10	10.70	4.100	6.310	2.460
13	2.16	1.31	1.11	1.08	0.80	0.97	1.03	8.63	11.70	22.700	5.540	2.460
14	2.15	1.31	1.09	1.08	0.80	0.95	1.10	7.84	24.50	39.300	5.080	2.460
15	2.15	1.31	1.11	1.08	0.80	0.95	1.18	6.86	27.00	29.200	4.500	2.460
16	2.15	1.32	1.12	1.08	0.80	0.93	1.17	6.24	24.60	19.100	4.090	2.520
17	2.15	1.33	1.12	1.07	0.79	0.93	1.20	5.56	18.50	13.600	3.720	2.650
18	2.15	1.33	1.12	1.07	0.79	0.92	1.23	4.85	14.40	10.400	3.370	10.200
19	2.15	1.32	1.12	1.07	0.78	0.95	1.23	4.23	11.40	8.090	2.710	17.800
20	2.15	1.32	1.17	1.06	0.78	0.94	1.23	3.70	8.60	6.440	2.370	18.600
21	2.15	1.32	1.19	1.11	0.80	0.98	1.26	4.06	7.00	5.310	2.380	16.600
22	2.16	1.32	1.08	0.95	0.82	0.95	1.49	5.37	5.95	4.490	2.500	13.300
23	2.17	1.31	1.10	0.85	0.81	0.94	3.82	5.51	4.85	3.880	2.480	10.300
24	2.16	1.31	1.12	0.86	0.81	0.91	2.85	5.06	4.03	3.450	2.470	8.090
25	2.15	1.31	1.21	0.85	0.82	0.88	2.70	4.52	3.39	3.140	2.460	7.110
26	2.13	1.31	1.16	0.85	0.83	0.90	2.14	4.17	2.86	3.000	2.460	6.070
27	2.14	1.31	1.11	0.85	0.83	0.90	2.20	3.82	2.50	2.970	2.460	5.250
28	2.14	1.31	1.11	0.82	0.83	0.90	6.99	3.41	2.24	2.960	2.450	4.620
29	2.14	1.31	1.22	0.80	0.83	0.90	9.35	3.03	2.00	2.980		4.090
30	1.79	1.31	1.11	0.80	0.83	0.94	12.50	2.74	1.87	3.040		3.640
31		1.31		0.80	0.82		18.00		1.70	11.00		3.29

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements (Level)												
EMS ID: 900504												
Site WB												
Average Level (m)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.627	0.554	0.493	0.494	0.431	0.436	0.461	1.018	0.619	0.619	MD	MD
2	0.610	0.519	0.491	0.483	0.431	0.434	0.481	1.371	0.604	0.624	MD	MD
3	0.598	0.501	0.491	0.478	0.434	0.429	0.500	1.013	0.597	0.640	MD	MD
4	0.595	0.495	0.488	0.475	0.434	0.430	0.499	0.931	0.597	0.654	MD	MD
5	0.592	0.495	0.488	0.473	0.432	0.430	0.495	0.860	0.607	0.680	MD	MD
6	0.590	0.495	0.488	0.475	0.433	0.433	0.491	1.057	0.606	0.689	MD	MD
7	0.586	0.487	0.488	0.476	0.437	0.438	0.489	1.217	0.627	0.681	MD	MD
8	0.569	0.489	0.490	0.470	0.437	0.454	0.475	1.182	0.664	0.666	MD	MD
9	0.581	0.493	0.490	0.475	0.431	0.456	0.442	1.054	0.754	0.659	MD	MD
10	0.582	0.493	0.488	0.471	0.429	0.449	0.473	0.947	0.837	0.653	MD	MD
11	0.583	0.491	0.478	0.472	0.426	0.444	0.474	0.887	0.946	0.670	MD	MD
12	0.581	0.488	0.473	0.469	0.427	0.446	0.469	0.804	0.978	0.959	MD	MD
13	0.582	0.486	0.469	0.470	0.415	0.446	0.468	0.772	0.936	0.626	MD	MD
14	0.581	0.487	0.473	0.471	0.425	0.439	0.459	0.809	0.917	MD	MD	MD
15	0.578	0.489	0.474	0.443	0.429	0.443	0.468	0.810	1.133	MD	MD	MD
16	0.572	0.493	0.470	0.469	0.422	0.445	0.475	0.781	1.348	MD	MD	MD
17	0.571	0.497	0.471	0.466	0.424	0.438	0.474	0.743	1.291	MD	MD	MD
18	0.567	0.502	0.471	0.466	0.424	0.443	0.496	0.729	1.206	MD	MD	MD
19	0.565	0.501	0.477	0.467	0.422	0.441	0.468	0.691	1.070	MD	MD	MD
20	0.565	0.497	0.474	0.469	0.422	0.444	0.461	0.549	0.970	MD	MD	MD
21	0.562	0.503	0.469	0.461	0.427	0.438	0.495	0.363	0.882	MD	MD	MD
22	0.563	0.499	0.475	0.466	0.429	0.444	0.490	0.368	0.816	MD	MD	MD
23	0.561	0.498	0.474	0.465	0.432	0.444	0.507	0.348	0.782	MD	MD	MD
24	0.560	0.500	0.472	0.456	0.434	0.443	0.583	0.603	0.745	MD	MD	MD
25	0.558	0.496	0.472	0.448	0.435	0.438	0.685	0.689	0.714	MD	MD	MD
26	0.555	0.492	0.482	0.444	0.436	0.441	0.696	0.659	0.676	MD	MD	MD
27	0.551	0.497	0.495	0.441	0.434	0.450	0.683	0.669	0.645	MD	MD	MD
28	0.554	0.491	0.489	0.438	0.437	0.451	0.665	0.657	0.628	MD	MD	MD
29	0.553	0.486	0.491	0.440	0.436	0.446	0.666	0.648	0.614	MD	MD	MD
30	0.555	0.497	0.492	0.438	0.438	0.447	0.802	0.631	0.579	MD	MD	MD
31		0.492		0.433	0.439		0.840		0.573	MD	MD	MD
Notes: Flow curve is being developed. MD= Missing data due to high flows removing level logger and hydrometric station.												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: E219412												
Site LLO												
Average Daily Flow (m ³ /S)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.7543	0.2064	0.1745	0.1939	0.0032	0.0000	0.1661	1.2555	0.5489	0.4337	1.2906	0.7472
2	0.6620	0.1910	0.1651	0.1704	0.0018	0.0000	0.4267	2.5529	0.5249	0.4264	1.1484	0.7006
3	0.5798	0.1844	0.1569	0.1521	0.0011	0.0000	0.5746	1.0781	0.5051	0.4893	0.9739	0.6011
4	0.5304	0.1811	0.1451	0.1355	0.0003	0.0000	0.5223	0.9317	0.5061	0.6364	0.8860	0.6120
5	0.4874	0.1784	0.1367	0.1227	#NUM!	0.0000	0.4472	0.8108	0.5589	0.7580	0.8247	0.5805
6	0.4587	0.1764	0.1277	0.1172	0.0019	0.0000	0.3994	1.3252	0.5746	0.7591	0.7386	0.5713
7	0.4478	0.1598	0.1185	0.1093	0.0117	0.0000	0.0000	1.5267	0.6171	0.7092	0.6938	0.6099
8	0.4021	0.1551	0.1111	0.0937	0.0113	0.0031	0.0000	1.3154	0.6866	0.6565	0.7280	0.6594
9	0.4208	0.1572	0.1041	0.1004	0.0095	0.0088	0.0000	1.0635	0.8780	0.6345	0.7304	0.6746
10	0.4269	0.1553	0.0956	0.0971	0.0099	0.0096	0.0000	0.8953	1.0392	0.6144	0.6901	0.6269
11	0.4525	0.1527	0.0887	0.0951	0.0075	0.0098	0.0000	0.8266	1.2328	0.6636	0.6991	0.6380
12	0.4420	0.1485	0.0826	0.0879	0.0067	0.0105	0.0000	0.6879	1.2032	1.4163	0.6833	0.5978
13	0.4246	0.1444	0.0779	0.0836	0.0016	0.0102	0.0000	0.6772	1.0724	3.2838	0.6956	0.5947
14	0.4105	0.1411	0.0752	0.0784	0.0033	0.0082	0.0000	0.8255	1.0056	1.8184	0.6542	0.5578
15	0.3963	0.1399	0.0807	0.0471	0.0081	0.0090	0.2787	0.8500	1.5245	1.1576	0.6517	0.5566
16	0.3726	0.1488	0.0754	0.0676	0.0069	0.0086	0.2666	0.7873	1.8692	0.9284	0.6286	0.5938
17	0.3543	0.1730	0.0742	0.0610	0.0064	0.0065	0.2529	0.7108	1.5200	0.7740	0.5588	0.8921
18	0.3352	0.2199	0.0734	0.0565	0.0074	0.0076	0.2762	0.7077	1.3365	0.7040	0.5375	1.2515
19	0.3289	0.2380	0.0809	0.0518	0.0069	0.0058	0.2323	0.6320	1.0890	0.6367	0.5280	1.2098
20	0.3185	0.2404	0.0777	0.0497	0.0069	0.0081	0.2378	0.3222	0.9549	0.5647	0.4920	1.0898
21	0.3008	0.2424	0.0704	0.0427	0.0060	0.0127	0.3049	0.0624	0.8480	0.5140	0.4875	0.9880
22	0.2883	0.2302	0.0703	0.0407	0.0039	0.0150	0.2980	0.0685	0.7508	0.4680	0.6394	0.9068
23	0.2759	0.2255	0.0711	0.0375	0.0027	0.0158	0.3495	0.0412	0.7279	0.4301	0.9885	0.8303
24	0.2630	0.2264	0.0684	0.0350	0.0018	0.0156	0.6941	0.3878	0.6951	0.4149	1.0205	0.7349
25	0.2517	0.2160	0.0686	0.0304	0.0011	0.0115	1.3106	0.5948	0.6555	0.3955	0.8956	0.6524
26	0.2382	0.2043	0.0969	0.0251	0.0008	0.0144	1.3192	0.5304	0.6012	0.3722	0.8231	0.6241
27	0.2243	0.2030	0.1886	0.0185	0.0003	0.0477	1.1668	0.5885	0.5437	0.3644	0.7725	0.5916
28	0.2217	0.1875	0.2334	0.0142	0.0001	0.0666	1.0272	0.5985	0.5276	0.3619	0.7618	0.5382
29	0.2155	0.1815	0.2357	0.0118	0.0000	0.0827	0.9713	0.5939	0.5174	0.4116		0.5060
30	0.2110	0.1925	0.2158	0.0091	0.0000	0.0921	1.1576	0.5669	0.4385	0.7532		0.4811
31		0.1798		0.0056	0.0000		1.0371		0.4107	1.4928		0.4523

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: E297232												
Site IR8												
Average Daily Flow (m3/S)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	5.16	2.93	1.49	0.82	0.10	0.06	5.11	MD	2.26	1.47	16.94	2.78
2	4.19	3.14	1.34	0.73	0.10	0.06	12.83	MD	2.11	1.47	10.61	2.57
3	3.47	2.98	1.26	0.67	0.10	0.05	4.45	MD	1.99	2.51	6.55	2.32
4	3.17	2.15	1.22	0.62	0.10	0.05	2.78	MD	2.17	4.53	6.69	2.93
5	3.06	2.07	1.13	0.59	0.09	0.04	2.04	MD	2.70	3.95	5.01	3.06
6	3.55	2.49	1.05	0.57	0.20	0.04	1.63	MD	3.05	3.35	3.97	3.38
7	4.32	2.86	0.96	0.54	0.25	0.08	1.39	MD	3.34	2.87	5.60	4.85
8	3.68	2.29	0.88	0.49	0.18	0.23	1.16	MD	5.98	2.51	6.11	6.18
9	3.40	1.89	0.81	0.56	0.14	0.30	0.85	MD	9.96	2.29	4.64	4.82
10	3.53	1.76	0.73	0.57	0.13	0.19	0.99	MD	12.59	2.79	4.59	3.56
11	4.90	1.86	0.66	0.52	0.12	0.14	1.47	MD	12.24	5.53	3.94	3.26
12	3.65	2.55	0.62	0.48	0.11	0.13	1.37	MD	6.67	165.55	3.43	2.88
13	3.13	2.59	0.58	0.44	0.08	0.12	1.19	MD	5.97	47.98	3.23	2.64
14	2.92	2.62	0.56	0.42	0.11	0.10	0.98	MD	11.94	13.01	3.00	2.28
15	3.13	2.29	0.69	0.29	0.18	0.11	0.95	MD	59.47	7.37	2.72	2.29
16	3.04	2.14	0.61	0.37	0.17	0.10	0.88	MD	18.86	5.19	2.52	3.67
17	2.79	3.39	0.56	0.34	0.15	0.09	0.81	MD	18.98	3.82	2.13	15.17
18	2.89	4.17	0.57	0.33	0.14	0.11	0.89	MD	9.24	3.32	1.97	21.05
19	3.38	2.96	0.62	0.31	0.14	0.09	1.62	MD	5.99	2.85	1.87	14.92
20	2.88	2.77	0.60	0.31	0.14	0.10	1.53	MD	4.52	2.50	1.73	15.41
21	2.48	2.47	0.55	0.28	0.14	0.14	MD	0.16	3.62	2.24	1.72	8.64
22	2.31	2.26	0.52	0.27	0.12	0.17	MD	0.49	3.15	2.04	8.12	5.64
23	2.29	2.21	0.51	0.26	0.10	0.15	MD	0.49	2.98	1.84	6.44	4.33
24	2.34	2.08	0.50	0.26	0.09	0.14	MD	2.02	2.61	1.66	4.69	3.55
25	2.70	2.02	0.50	0.25	0.08	0.11	MD	2.63	2.33	1.55	3.59	3.09
26	2.92	1.87	0.90	0.23	0.08	0.12	MD	2.25	2.08	1.50	3.26	2.84
27	2.94	1.84	1.34	0.22	0.07	0.36	MD	2.75	1.85	1.45	3.14	2.68
28	3.13	1.83	1.22	0.21	0.07	0.71	MD	2.96	1.75	1.80	3.08	2.44
29	3.08	2.12	1.06	0.13	0.07	1.39	MD	2.71	1.67	3.31		2.18
30	2.91	1.76	0.92	0.12	0.07	1.03	MD	2.42	1.41	121.09		2.00
31		1.57		0.11	0.06		MD		1.38	24.94		1.89
MD = Missing data. Logger was removed to trouble shoot and download.												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Weekly Flow Requirements												
EMS ID: E292130												
Site LLE												
Average Daily Flow (m3/S)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.13				0.00	0.00	0.02	0.18	0.07	0.00	0.03	0.60
2			0.01		0.00	0.00	0.12	0.18	0.07	0.00	0.14	0.39
3			0.00		0.00	0.00	0.20	0.18	0.07	0.00	0.23	0.09
4			0.00	0.00	0.00	0.00	0.20	0.18	0.07	0.00	0.23	0.09
5		0.01	0.00	0.00	0.00	0.00	0.20	0.18	0.07	0.11	0.23	0.09
6			0.00	0.00	0.00	0.00	0.13	0.18	0.07	0.11	0.23	0.09
7	0.04		0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.11	0.23	0.09
8			0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.11	0.23	0.09
9			0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.11	0.18	0.11
10			0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.11	0.08	0.13
11			0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.11	0.08	0.13
12		0.00	0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.25	0.08	0.13
13			0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.47	0.08	0.13
14	0.05		0.00	0.00	0.00	0.00	0.04	0.18	0.07	0.47	0.08	0.13
15			0.00	0.00	0.00	0.00	0.02	0.18	0.21	0.47	0.08	0.13
16			0.00	0.00	0.00	0.00	0.02	0.18	0.44	0.47	0.08	0.13
17		0.04	0.00	0.00	0.00	0.00	0.02	0.18	0.44	0.47	0.08	0.13
18			0.00	0.00	0.00	0.00	0.02	0.18	0.44	0.47	0.08	0.13
19			0.00	0.00	0.00	0.00	0.02	0.18	0.44	0.47	0.08	0.13
20		0.03	0.00	0.00	0.00	0.00	0.04	0.18	0.44	0.48	0.08	0.13
21			0.00	0.00	0.00	0.00	0.07	0.18	0.44	0.48	0.08	0.13
22	0.02		0.00	0.00	0.00	0.00	0.07	0.18	0.30	0.48	0.08	0.13
23			0.00	0.00	0.00	0.00	0.07	0.18	0.07	0.48	0.38	0.13
24			0.00	0.00	0.00	0.00	0.07	0.11	0.07	0.48	0.60	0.13
25			0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.48	0.60	0.13
26		0.01	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.26	0.60	0.13
27			0.00	0.00	0.00	0.00	0.11	0.07	0.00	0.03	0.60	0.13
28	0.01		0.00	0.00	0.00	0.00	0.18	0.07	0.00	0.03	0.60	0.13
29				0.00	0.00	0.00	0.18	0.07	0.00	0.03		0.13
30				0.00	0.00	0.00	0.18	0.07	0.00	0.03		0.13
31				0.00	0.00		0.18		0.00	0.03		0.13

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

River Barrier Pillar Treatment System Discharge								
Site	BH2 (RBP1)					Site	BH3	
Average Daily Flow (m ³ /s)								
Date	Nov	Dec	Jan	Feb	Mar	Jan	Feb	Mar
1	0.00	0.02	0.06	0.03	0.06	0.00	0.03	0.06
2	0.00	0.03	0.06	0.03	0.06	0.00	0.03	0.06
3	0.00	0.03	0.06	0.03	0.06	0.00	0.03	0.06
4	0.00	0.03	0.06	0.03	0.06	0.00	0.03	0.06
5	0.00	0.03	0.06	0.04	0.06	0.00	0.03	0.06
6	0.00	0.03	0.06	0.04	0.06	0.00	0.03	0.06
7	0.00	0.04	0.06	0.04	0.06	0.00	0.03	0.06
8	0.00	0.06	0.07	0.04	0.06	0.00	0.03	0.05
9	0.00	0.06	0.03	0.04	0.05	0.00	0.03	0.03
10	0.00	0.06	0.00	0.04	0.04	0.00	0.05	0.03
11	0.00	0.06	0.00	0.05	0.04	0.00	0.07	0.03
12	0.00	0.07	0.00	0.07	0.04	0.00	0.08	0.03
13	0.00	0.07	0.00	0.07	0.04	0.00	0.08	0.03
14	0.00	0.07	0.00	0.07	0.04	0.00	0.08	0.03
15	0.00	0.07	0.00	0.07	0.04	0.00	0.07	0.02
16	0.00	0.07	0.01	0.06	0.04	0.01	0.08	0.02
17	0.00	0.07	0.04	0.08	0.04	0.03	0.07	0.02
18	0.00	0.07	0.04	0.06	0.04	0.03	0.07	0.02
19	0.00	0.07	0.04	0.06	0.04	0.04	0.07	0.02
20	0.05	0.07	0.07	0.07	0.04	0.06	0.07	0.02
21	0.06	0.07	0.03	0.07	0.04	0.05	0.07	0.02
22	0.06	0.07	0.04	0.07	0.04	0.05	0.07	0.02
23	0.06	0.07	0.04	0.07	0.04	0.05	0.07	0.02
24	0.06	0.07	0.04	0.07	0.04	0.05	0.07	0.02
25	0.06	0.07	0.04	0.06	0.04	0.06	0.06	0.02
26	0.06	0.07	0.06	0.06	0.04	0.07	0.06	0.02
27	0.06	0.06	0.06	0.06	0.04	0.03	0.06	0.02
28	0.06	0.06	0.03	0.06	0.04	0.03	0.06	0.02
29	0.05	0.06	0.03		0.04	0.03		0.02
30	0.02	0.06	0.03		0.03	0.03		0.02
31		0.06	0.03		0.02	0.03		0.02

Appendix 1 - Tables

Table 31 Daily Precipitation(mm) 1 Page(s)

Daily Precipitation (mm)												
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR
1	0.00	0.00	0.00	0.00	0.00	0.00	44.30	9.20	3.40	0.30	7.20	0.10
2	0.00	0.00	0.00	0.00	0.00	0.00	2.10	3.10	0.10	5.70	0.50	0.00
3	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.20	1.60	13.60	3.70	1.30
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	9.40	0.80	0.20	0.00
5	0.00	0.00	0.00	0.00	0.20	0.00	0.00	38.50	5.20	0.10	0.00	0.50
6	6.00	0.00	0.00	0.00	22.40	0.00	0.00	17.80	0.30	6.60	0.20	11.50
7	0.80	0.20	0.00	0.00	0.10	5.00	0.00	1.90	7.30	1.20	14.40	6.30
8	5.70	0.10	0.00	2.00	0.00	21.70	0.00	0.10	15.60	0.00	0.10	0.30
9	2.50	0.00	0.00	3.20	0.00	0.00	1.20	5.80	6.80	0.20	9.70	0.00
10	7.80	0.30	0.00	0.00	0.00	0.30	18.20	0.10	17.10	10.00	1.70	2.20
11	0.50	2.40	0.00	0.00	0.00	0.10	0.10	0.00	3.30	24.20	0.10	6.10
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90	5.70	36.60	1.80	0.30
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20	4.10	0.80	1.80	5.60
14	1.40	0.00	4.10	0.00	9.00	1.70	0.00	1.80	20.80	0.00	6.30	0.00
15	0.00	2.70	0.10	0.00	1.60	0.00	0.00	1.20	20.40	0.20	0.10	3.20
16	0.00	7.90	0.00	0.00	0.20	0.00	0.00	7.10	19.30	0.20	3.80	29.30
17	0.00	16.90	0.10	0.00	1.70	2.10	0.00	0.40	0.20	0.10	0.80	10.20
18	0.10	0.10	3.90	0.00	1.40	0.00	11.10	0.00	5.30	0.10	0.00	4.80
19	0.00	7.10	2.10	0.00	1.10	0.00	3.10	0.00	0.10	0.00	0.00	4.70
20	1.90	3.10	0.00	0.00	0.00	6.70	0.90	0.90	1.90	0.10	0.00	4.30
21	0.00	2.70	0.00	0.00	0.00	2.10	0.10	1.30	2.90	0.10	11.50	3.20
22	0.00	0.40	0.00	0.00	0.00	0.00	8.10	11.20	11.50	0.00	49.90	0.10
23	0.00	3.80	0.00	0.00	0.00	0.00	30.40	0.10	4.20	0.10	2.50	0.00
24	0.00	0.10	0.00	0.00	0.00	0.00	17.60	0.10	3.10	0.00	0.00	5.80
25	0.00	0.70	4.40	0.60	0.00	0.00	27.30	0.80	0.10	0.00	0.00	2.80
26	0.00	0.30	40.60	0.00	0.00	7.20	3.10	1.30	0.10	0.20	0.00	0.60
27	0.00	0.00	3.60	0.00	0.00	18.60	0.00	9.90	0.00	3.10	0.00	0.60
28	1.40	0.00	0.00	0.00	0.00	15.70	20.40	0.10	0.50	7.40	0.00	0.80
29	0.00	5.70	0.00	0.00	0.00	0.10	6.80	0.00	0.40	15.90		0.00
30	0.00	0.60	0.00	0.00	0.00	23.10	0.00	0.10	0.00	39.80		0.00
31		0.40		0.00	0.00		23.10		0.00	9.20		0.00
Monthly Total (mm)	28.10	55.80	58.90	5.80	37.70	104.40	217.90	135.60	170.70	176.60	116.30	104.60
Quarterly Total (mm)	142.80				147.90		Quarterly Total (mm)	524.20		Quarterly Total (mm)		397.50
Annual Total (mm)	1212.40											

Table 32 Groundwater Wells - Description 1 Page(s)

Groundwater Wells - Description				
Area	Groundwater ID	In-situ / Ex-situ	Screened Interval	Comment
2-North	1 Mains 2-North (1M2N)	In-situ	No. 1 Seam	Flooded Underground Workings in 1-Mains Area, Dewatering well
	5 Mains#2 (5M#2)	In-situ	No. 1 Seam	Flooded Underground Workings in 5-Mains Area, Dewatering well
	3 Mains 2-North (3M2N)	In-situ	No. 1 Seam	Flooded Underground Workings in 3-Mains Area, Underground Pump System
	QU08-21GD	Ex-situ	No. 1 Seam	Down gradient of u/g tailings disposal, measure water quality and hydraulic gradients downstream of forjan fault
	QU08-21GS	Ex-situ	No. 4 Coal Seam and	
	QU10-10D	Ex-situ	No. 1 Seam / mudstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head downgradient of 2 North workings
	QU10-10S	Ex-situ	No. 4 Seam /	
	QU10-11S	Ex-situ	Fractured Sandstone	Measure water quality and hydraulic gradient in Forjan Fault
	QU10-11D	Ex-situ	No.1 Seam	Down gradient of u/g tailings disposal, measures water quality and hydraulic head down gradient t of 2 North workings
	QU10-13D	In-situ	Caved Zone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head down gradient of 2 North workings
5-South Mine Void	QU0513	In-situ	(1 Seam)	Flooded mine void
	QU05-16	In-situ	(1 Seam)	In a pillar of the flooded mine void
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, down gradient of 2-North workings
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients from of the RBP and 2-North mine.
	BH1 (RBP1)	In-situ	RBP Mine Pool	Monitoring water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar, 87 Panel. Borehole for the Passive Treatment System.
	BH3	In-situ	RBP Mine Pool	Monitoring water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar, 87 Panel. Borehole for the Passive Treatment System.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Shallow groundwater below coal pad
	MW-00-1D	Ex-situ	1-Seam	Deeper groundwater below the coal pad
4-South	QU10-08D	Ex-situ	No. 3 Seam	4 South (just outside mine pool) up gradient of existing workings
	QU11-01	In-Situ	Foot print area of 4 South GOB	Assess 4 South Flooded Mine Void Water Chemistry
	QU10-09S	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
	QU10-09D	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
2-South & 3-South	MW002	Ex-situ	1 Seam	3S Pit Shallow Groundwater
	MW004	In-Situ	Mine Pool (1 Seam)	2-South mine pool - gob depillared area
	QU11-11 (INF)	In-Situ	Mine Pool (1 Seam)	2-South mine pool dewatering well for Sulphate Passive Treatment System
7-South	1M7SA5	In-Situ	No. 4 Coal Seam	Underground sump collects water from 7SA5, 2Mains and 1Mains pumps to 5-South Mine
	2M7S	In-Situ	No. 4 Coal Seam	Flooded (PAG -CCR) 2-Mains area pumps intermittently to 1M7SA5
	3M7S	In-Situ	No. 4 Coal Seam	3-Mains Area Underground
	QU08-10	Ex-situ	No. 4 Coal Seam	Downgradient of 7S - screened No. 3 Coal - Southern margin of workings
	QU08-13A	Ex-situ	No. 4 Coal Seam	Downgradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Downgradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	Flooded PAG-CCR, water cover in 2-Mains Area
7- South Area 5	7SA5	In-Situ	Sump	Underground sump collects water in 7SA5, pumps it to 1 Mains.
242 AREA	QU11-36D	Ex-situ	Sandstone below No. 4 seam	Downgradient of 7SA5 and 242 Audit
	QU11-36S	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5 and 242 Audit
	242MW	In-situ	No. 4 Seam	Flooded mine void

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells						
Well ID	Top Elev.		QU0821GS 215.4279556	QU0821GS 215.4279556	QU0821GS 215.4279556	QU0821GD 215.4279556
Wlevel	m	1280	0	1.4	0	0
	Duplicate Sample		M	M	M	M
Date			14-May-25	13-Aug-25	13-Jan-26	14-May-25
Parameter	Units					
SO4-D	mg/L	1280	<1.0	25	<1.0	<1.0
H2SEquiv	mg/L	0.02	0.149	0.159	0.149	0.0638
Cond-F	uS/cm		510.9	536.9	159.3	2551.4
pH-F	pH Units		8.09	7.85	7.91	7.42
Temp-F	C		9.429	12.52	9.4	9.789
DO-F	mg/L		-0.45	0.02	0.25	0.89
ORP-F	mV		-211.2	212.4	-102.6	-124.8
Turb	NTU		1.3	1.3	2.7	6.9
Alk-T	mg/L		200	190	200	210
Acidity83	mg/L		<1.0	<1.0	<1.0	2.0
N-D	mg/L		0.253			0.524
DOC	mg/L			1.2	<0.50	
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		230	230	240	250
Carb	mg/L		4.2	2.4	<1.0	4.4
Cl-D	mg/L	1500	53	<1.0	49	680
F-D	mg/L		1.5	1.6	1.6	1.3
Flu-CSR	mg/L		2.000	2.000	2.000	3.00
Br-D	mg/L		0.085	0.071	0.08	1.17
P-D	mg/L		0.025			0.021
Al-D	mg/L		<0.0030	0.0031	0.0031	<0.015
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.00010
Ag-CSR	mg/L		0.0005000	0.0005000	0.0005000	0.0150
As-D	mg/L	0.05	0.203	0.216	0.214	0.178
Ba-D	mg/L	10	0.271	0.274	0.296	1.79
B-D	mg/L	12	1.82	2.05	2.2	2.98
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00050
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0050
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000050
Cd-CSR	mg/L		0.0003000	0.0003000	0.0003000	0.000600
Ca-D	mg/L		13.3	12.2	12.9	76.8
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0050
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.0010
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.0010
Cu-CSR	mg/L		0.02000	0.02000	0.02000	0.0900
Fe-D	mg/L		0.260	0.236	0.242	0.574
Hard-D	mg/L		48.7	45.5	46.5	243
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.0010
Pb-CSR	mg/L		0.04000	0.04000	0.04000	0.110
Mg-D	mg/L		3.75	3.63	3.44	12.5
Mn-D	mg/L		0.0300	0.0143	0.0229	0.0413
Hg-D	mg/L	0.001				
Na-D	mg/L		106	98.9	103	444
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0050
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0050
Ni-CSR	mg/L		0.2500	0.2500	0.2500	1.50
K-D	mg/L		3.52	3.72	3.67	7.52
S-D	mg/L		<3.0	<3.0	<3.0	<15
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.0025
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00050
Si-D	mg/L		3.38	3.31	3.52	3.70
Sr-D	mg/L		0.384	0.358	0.385	1.67
Ti-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000050
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.025
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00050
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.025
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.025
Zn-CSR	mg/L		0.075	0.075	0.075	1.650
N-NH3	mg/L					
NH3-CSR	mg/L		3.700	11.30	11.30	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells							
Wlevel	Well ID		QU0821GD	QU0821GD	QU1010D	QU1011D	QU1105S
	Top Elev.		215.4279556	215.4279556	245.3979556	249.1979556	228.95
	m	1280		0	27.267	24.14	7.95
	Duplicate Sample		M	M	M	M	M
Date			24-Jul-25	13-Jan-26	15-Jan-26	21-May-25	8-Apr-25
Parameter	Units						
SO4-D	mg/L	1280	<1.0	<1.0	<1.0	2.1	340
H2SEquiv	mg/L	0.02	0.0638	0.0553	0.00372	0.159	0.255
Cond-F	uS/cm		2927	471.2	9925.1	689	1514.6
pH-F	pH Units		6.87	7.65	7.11	7.96	7.17
Temp-F	C		12.353	9.5	8.034	14.3	8.227
DO-F	mg/L		-0.34	0.41	-0.37		-0.58
ORP-F	mV		-86.2	-64.4	-124.7		-291
Turb	NTU		6.2	4.8	22		
Alk-T	mg/L		210	220	89	260	430
Acidity83	mg/L		<1.0	3.5	5.7	<1.0	2
N-D	mg/L						0.411
DOC	mg/L		0.64	<0.50	<0.50	2.4	1.1
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		250	270	110	300	500
Carb	mg/L		<1.0	<1.0	<1.0	9.6	12
Cl-D	mg/L	1500	800	700	3200	66	12
F-D	mg/L		1.1	1.3	<0.050	0.92	0.37
Flu-CSR	mg/L		3.00	3.00	3.000	3.000	3.00
Br-D	mg/L		1.26	1.12	5.25	0.122	0.023
P-D	mg/L						0.022
Al-D	mg/L		<0.015	<0.0060	<0.015	0.00254	0.00085
Ag-D	mg/L		<0.00010	<0.000040	<0.00010	<0.0000050	<0.0000050
Ag-CSR	mg/L		0.0150	0.0150	0.01500	0.0005000	0.0150
As-D	mg/L	0.05	0.182	0.175	0.0103	0.0925	0.1
Ba-D	mg/L	10	2.10	1.97	1.28	0.264	0.105
B-D	mg/L	12	3.23	3.49	0.38	2.01	1.24
Be-D	mg/L	0.053	<0.00050	<0.00020	<0.00050	<0.000010	<0.000010
Bi-D	mg/L		<0.0050	<0.0020	<0.0050	<0.0000050	<0.0000050
Cd-D	mg/L		<0.000050	<0.000020	<0.000050	<0.0000050	<0.0000050
Cd-CSR	mg/L		0.000600	0.000600	0.0006000	0.0003000	0.000600
Ca-D	mg/L		95.7	79.3	564	15.9	85.5
Cr-D	mg/L	0.01	<0.0050	<0.0020	<0.0050	0.00021	<0.00010
Co-D	mg/L	0.009	<0.0010	<0.00040	<0.0010	0.00002	0.0000064
Cu-D	mg/L		<0.0010	<0.00040	<0.0010	0.000117	0.000053
Cu-CSR	mg/L		0.0900	0.0900	0.09000	0.03000	0.0900
Fe-D	mg/L		0.728	0.552	5.02	0.111	1.76
Hard-D	mg/L		298	249	1460	53.7	268
Pb-D	mg/L		<0.0010	<0.00040	<0.0010	0.000015	<0.0000050
Pb-CSR	mg/L		0.110	0.110	0.1600	0.05000	0.110
Mg-D	mg/L		14.3	12.5	11.5	3.38	13.2
Mn-D	mg/L		0.0481	0.0365	0.267	0.0755	0.198
Hg-D	mg/L	0.001					
Na-D	mg/L		523	455	1370	130	258
Mo-D	mg/L	10	<0.0050	<0.0020	<0.0050	0.000305	0.000281
Ni-D	mg/L		<0.0050	<0.0020	<0.0050	0.00009	0.00004
Ni-CSR	mg/L		1.50	1.50	1.500	0.2500	1.50
K-D	mg/L		8.12	8.03	7.76	3.85	5.67
S-D	mg/L		<15	<6.0	<15	<3.0	135
Sb-D	mg/L	0.2	<0.0025	<0.0010	<0.0025	0.000027	<0.000020
Se-D	mg/L	0.02	<0.00050	<0.00020	<0.00050	<0.000040	<0.000040
Si-D	mg/L		3.96	4.3	3.25	3.6	4.46
Sr-D	mg/L		2.07	1.82	5.67	0.352	1.27
Ti-D	mg/L	0.003	<0.000050	<0.000020	<0.000050	<0.0000020	<0.0000020
Ti-D	mg/L	1.00	<0.025	<0.010	<0.025	<0.00050	<0.00050
U-D	mg/L	3	<0.00050	<0.00020	<0.00050	0.000064	0.0000359
V-D	mg/L		<0.025	<0.010	<0.025	<0.00020	0.00032
Zn-D	mg/L		<0.025	<0.010	<0.025	0.00098	<0.00010
Zn-CSR	mg/L		1.650	1.650	2.400	0.075	1.650
N-NH3	mg/L						
NH3-CSR	mg/L		18.40	11.30	18.50	11.30	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells							
Well ID	Top Elev.		QU11055	QU11055	QU11055	QU11055	QU11055
228.95			228.95	228.95	228.95	228.95	228.95
Wlevel	m	1280	8.7		9.53	12.36	12.36
Duplicate Sample			M	M	M	M	R
Date			13-May-25	2-Jun-25	16-Jun-25	30-Jul-25	30-Jul-25
Parameter	Units						
SO4-D	mg/L	1280	420		440	300	300
H2SEquiv	mg/L	0.02	0.128		0.234	0.106	0.104
Cond-F	uS/cm		1705.4	2333	1734.4	1620	1620
pH-F	pH Units		7.06	6.82	7.3	7.15	7.15
Temp-F	C		10.256	11.011	9.621	11.3	11.3
DO-F	mg/L		-0.13	3.56	-0.55	2.93	2.93
ORP-F	mV		-166.2	-32.9	-283	-8.2	-8.2
Turb	NTU		30		28	18	20
Alk-T	mg/L		390		450	400	410
Acidity83	mg/L		3.9		5.4	<1.0	<1.0
N-D	mg/L						
DOC	mg/L		1.2		1.1	1.4	1.3
Hydrox	mg/L		<1.0		<1.0	<1.0	<1.0
Bicarb	mg/L		480		550	470	500
Carb	mg/L		<1.0		<1.0	9.9	<1.0
Cl-D	mg/L	1500	13		13	12	12
F-D	mg/L		0.36		0.42	0.53	0.53
Flu-CSR	mg/L		3.00		3.00	3.00	3.00
Br-D	mg/L		0.026		0.026	0.026	0.026
P-D	mg/L						
Al-D	mg/L		<0.0030		<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000020		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0959		0.103	0.134	0.138
Ba-D	mg/L	10	0.121		0.0639	0.0538	0.0535
B-D	mg/L	12	1.25		1.32	1.64	1.47
Be-D	mg/L	0.053	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010		<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010		<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600		0.000600	0.000600	0.000600
Ca-D	mg/L		103		106	70.3	65.3
Cr-D	mg/L	0.01	<0.0010		<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020		<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020		<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900		0.0900	0.0900	0.0900
Fe-D	mg/L		2.19		2.16	2.10	1.99
Hard-D	mg/L		318		324	218	202
Pb-D	mg/L		<0.00020		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160		0.160	0.110	0.110
Mg-D	mg/L		15.1		14.7	10.2	9.59
Mn-D	mg/L		0.276		0.265	0.182	0.176
Hg-D	mg/L	0.001					
Na-D	mg/L		282		286	238	231
Mo-D	mg/L	10	<0.0010		<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010		<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.50		1.50	1.50	1.50
K-D	mg/L		5.95		5.70	4.75	4.64
S-D	mg/L		177		172	109	97.7
Sb-D	mg/L	0.2	<0.00050		<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.00170		0.00115	0.00010	<0.00010
Si-D	mg/L		4.76		4.58	4.67	4.09
Sr-D	mg/L		1.46		1.46	0.872	0.846
Tl-D	mg/L	0.003	<0.000010		<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050		<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050		<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400		2.400	1.650	1.650
N-NH3	mg/L						
NH3-CSR	mg/L		18.50	18.40	18.5	18.50	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID Top Elev. m	1280	QU1105S 228.95 M	QU1105S 228.95 R	QU1105S 228.95 M	QU1105S 228.95 R	QU1105S 228.95 M	QU1105S 228.95 M	QU1105S 228.95 M
Date	Parameter	Units	19-Aug-25	19-Aug-25	11-Sep-25	11-Sep-25	9-Oct-25	26-Nov-25	15-Jan-26
SO4-D	mg/L	1280	94	93	76	78	73	490	
H2SEquiv	mg/L	0.02	0.0840	0.0840	0.170	0.159	0.101	0.202	
Cond-F	uS/cm		556.7	556.7	302.4	302.4	422.8	334.9	1821.2
pH-F	pH Units		7.08	7.08	7.51	7.51	7.49	7	7.43
Temp-F	C		14.6	14.6	9.9	9.9	9.4	8.7	8.063
DO-F	mg/L		1.01	1.01	5.76	5.76	5.98	0.23	-0.62
ORP-F	mV		-70.2	-70.2	-161.9	-161.9	-168.3	-120.9	-248.1
Turb	NTU		7.4	6.1	1.9	2	4.1	27	
Alk-T	mg/L		190	190	170	170	140	450	
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	13.2	1.1	
N-D	mg/L								
DOC	mg/L		1.2	1.4	1.5	1	1.1	1.2	
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bicarb	mg/L		230	230	200	200	180	520	
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	11	
Cl-D	mg/L	1500	2.5	2.4	2.3	2.2	1.5	14	
F-D	mg/L		0.32	0.32	0.32	0.32	0.19	0.36	
Flu-CSR	mg/L		3.000	3.000	3.000	3.000	3.0	3.00	
Br-D	mg/L		<0.010	<0.010	<1.0	<1.0	<0.010	0.026	
P-D	mg/L								
Al-D	mg/L		0.0048	<0.0030	0.0035	0.0102	<0.0030	<0.015	
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.00010	
Ag-CSR	mg/L		0.0005000	0.0005000	0.0005000	0.0005000	0.00050	0.0150	
As-D	mg/L	0.05	0.101	0.101	0.0933	0.0967	0.0848	0.102	
Ba-D	mg/L	10	0.0298	0.0299	0.0213	0.0219	0.0273	0.084	
B-D	mg/L	12	0.745	0.764	0.57	0.587	0.466	1.5	
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000050	
Cd-CSR	mg/L		0.0003000	0.0003000	0.0003000	0.0003000	0.00030	0.000600	
Ca-D	mg/L		28.5	27.8	24	24.1	26.5	106	
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	
Cu-CSR	mg/L		0.04000	0.04000	0.03000	0.03000	0.040	0.0900	
Fe-D	mg/L		1.43	1.37	0.634	0.759	0.899	2.34	
Hard-D	mg/L		89.0	86.7	73.6	74.3	83	323	
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	
Pb-CSR	mg/L		0.05000	0.05000	0.05000	0.05000	0.050	0.160	
Mg-D	mg/L		4.31	4.18	3.3	3.44	4.08	13.8	
Mn-D	mg/L		0.112	0.108	0.0783	0.0809	0.0969	0.251	
Hg-D	mg/L	0.001							
Na-D	mg/L		95.4	92.3	76	80.2	63.2	271	
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
Ni-CSR	mg/L		0.6500	0.6500	0.6500	0.6500	0.65	1.50	
K-D	mg/L		2.66	2.58	2.35	2.47	2.21	5.93	
S-D	mg/L		37.3	36.2	27.3	27.9	25.2	177	
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	<0.00050	
Si-D	mg/L		3.55	3.48	3.33	3.49	2.76	4.78	
Sr-D	mg/L		0.356	0.357	0.277	0.278	0.325	1.41	
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000050	
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	
Zn-CSR	mg/L		0.075	0.075	0.075	0.075	0.075	2.400	
N-NH3	mg/L								
NH3-CSR	mg/L		18.50	18.50	11.30	11.30	18.50	20	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.	1280	QU1105S 228.95	QU1105S 228.95	QU1105S 228.95	QU1105S 228.95	QU1105D 228.95	QU1105D 228.95
Wlevel	m	1280	6.186	7.15	7.15	227	2.29	0
Date	Duplicate Sample		R	M	R	M	M	M
Parameter	Units		15-Jan-26	12-Feb-26	12-Feb-26	12-Feb-26	8-Apr-25	13-May-25
SO4-D	mg/L	1280		480	470		330	340
H2SEquiv	mg/L	0.02		0.0585	0.0553		38.3	30.8
Cond-F	uS/cm		1821.2	1782.5	1782.5	4751.8	5181.4	4675
pH-F	pH Units		7.43	7.03	7.03	7.39	7.67	7.38
Temp-F	C		8.063	8.217	8.217	8.209	6.616	8.9
DO-F	mg/L		-0.62	-0.65	-0.65	-0.62	-0.67	0.49
ORP-F	mV		-248.1	-264.4	-264.4	-378.4	-392.4	-282
Turb	NTU							34
Alk-T	mg/L			490	480		280	270
Acidity83	mg/L			22.7	19.3		<1.0	<1.0
N-D	mg/L						0.816	
DOC	mg/L			<0.50	0.97		0.83	<0.50
Hydrox	mg/L			<1.0	<1.0		<1.0	<1.0
Bicarb	mg/L			600	580		340	310
Carb	mg/L			<1.0	<1.0		1.8	5.6
Cl-D	mg/L	1500		12	13		1300	1200
F-D	mg/L			0.28	0.29		<0.050	<0.050
Flu-CSR	mg/L			3.00	3.00		3.00	3.00
Br-D	mg/L			0.024	0.022		2.37	2.37
P-D	mg/L						0.16	
Al-D	mg/L			<0.0030	<0.0030		0.0073	<0.0060
Ag-D	mg/L			<0.000020	<0.000020		<0.000025	<0.000040
Ag-CSR	mg/L			0.0150	0.0150		0.0150	0.0150
As-D	mg/L	0.05		0.098	0.099		0.00109	0.00033
Ba-D	mg/L	10		0.0757	0.0763		0.176	0.108
B-D	mg/L	12		1.56	1.62		0.465	0.41
Be-D	mg/L	0.053		<0.00010	<0.00010		<0.000050	<0.00020
Bi-D	mg/L			<0.0010	<0.0010		<0.000025	<0.0020
Cd-D	mg/L			<0.000010	<0.000010		<0.000025	<0.000020
Cd-CSR	mg/L			0.000600	0.000600		0.000600	0.000600
Ca-D	mg/L			91.8	96.3		157	151
Cr-D	mg/L	0.01		<0.0010	<0.0010		<0.00050	<0.0020
Co-D	mg/L	0.009		<0.00020	<0.00020		<0.000025	<0.00040
Cu-D	mg/L			0.00021	<0.00020		<0.00025	<0.00040
Cu-CSR	mg/L			0.0900	0.0900		0.0900	0.0900
Fe-D	mg/L			2.2	2.27		<0.0050	0.011
Hard-D	mg/L			289	300		413	397
Pb-D	mg/L			<0.00020	<0.00020		<0.000025	<0.00040
Pb-CSR	mg/L			0.110	0.160		0.160	0.160
Mg-D	mg/L			14.6	14.6		5.39	5.06
Mn-D	mg/L			0.276	0.273		0.149	0.0764
Hg-D	mg/L	0.001						
Na-D	mg/L			324	329		951	896
Mo-D	mg/L	10		<0.0010	<0.0010		<0.00025	<0.0020
Ni-D	mg/L			<0.0010	<0.0010		<0.00010	<0.0020
Ni-CSR	mg/L			1.50	1.50		1.50	1.50
K-D	mg/L			6.27	6.13		4.94	4.73
S-D	mg/L			188	184		149	240
Sb-D	mg/L	0.2		<0.00050	<0.00050		<0.00010	<0.0010
Se-D	mg/L	0.02		0.00156	0.00165		0.00206	0.0227
Si-D	mg/L			4.87	5.05		4.26	4.18
Sr-D	mg/L			1.37	1.39		1.94	1.83
Tl-D	mg/L	0.003		<0.000010	<0.000010		<0.000010	<0.000020
Ti-D	mg/L	1.00		<0.0050	<0.0050		<0.0025	<0.010
U-D	mg/L	3		<0.00010	<0.00010		0.000053	<0.00020
V-D	mg/L			<0.0050	<0.0050		<0.0010	<0.010
Zn-D	mg/L			<0.0050	<0.0050		<0.00050	<0.010
Zn-CSR	mg/L			1.650	2.400		2.400	2.400
N-NH3	mg/L							
NH3-CSR	mg/L		18.50	18.50	18.50	18.50	11.30	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID Top Elev. m	1280	QU1105D 228.95 0 M 16-Jun-25	QU1105D 228.95 0 M 30-Jul-25	QU1105D 228.95 4.62 M 19-Aug-25	QU1105D 228.95 8.68 M 11-Sep-25	QU1105D 228.95 9.36 M 9-Oct-25	QU1105D 228.95 9.36 R 9-Oct-25
Date Parameter	Units							
SO4-D	mg/L	1280	320	290	270	290	300	220
H2SEquiv	mg/L	0.02	17.0	24.4	28.7	31.9	45.7	48.9
Cond-F	uS/cm		4828.4	5168.4	4493	2821	4376	4376
pH-F	pH Units		7.57	7.55	7.57	7.64	7.69	7.69
Temp-F	C		9.441	10.839	10.6	9.3	9.2	9.2
DO-F	mg/L		-0.58	-0.54	0.17	0.29	0.32	0.32
ORP-F	mV		-339.9	-537.8	-328.7	-319.4	-327.4	-327.4
Turb	NTU		57	17	71	11	76	120
Alk-T	mg/L		280	270	330	300	260	300
Acidity83	mg/L		<1.0	1.1	<1.0	1.2	<1.0	<1.0
N-D	mg/L							
DOC	mg/L		<0.50	0.53	0.79	0.51	0.54	0.66
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		340	330	380	370	320	370
Carb	mg/L		<1.0	<1.0	12	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1200	1300	1300	1400	1300	1200
F-D	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		2.24	2.38	2.79	2.6	1.6	2.58
P-D	mg/L							
Al-D	mg/L		<0.015	0.0100	<0.015	<0.015	<0.015	<0.015
Ag-D	mg/L		<0.00010	<0.000020	<0.00010	<0.00010	<0.00010	<0.00010
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00095	0.00177	<0.00050	0.00053	0.00053	0.00097
Ba-D	mg/L	10	0.0998	0.0937	0.113	0.126	0.15	0.151
B-D	mg/L	12	0.56	0.609	0.46	0.45	0.47	0.49
Be-D	mg/L	0.053	<0.00050	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050
Bi-D	mg/L		<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Cd-D	mg/L		<0.000050	0.000010	<0.000050	<0.000050	<0.000050	<0.000050
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		145	155	153	143	142	141
Cr-D	mg/L	0.01	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Co-D	mg/L	0.009	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L		<0.0010	0.00047	<0.0010	<0.0010	<0.0010	<0.0010
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		<0.025	0.0109	<0.025	<0.025	<0.025	<0.025
Hard-D	mg/L		381	408	405	377	375	375
Pb-D	mg/L		<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		4.75	5.07	5.29	4.8	5.16	5.28
Mn-D	mg/L		0.0723	0.0687	0.0774	0.0862	0.0927	0.092
Hg-D	mg/L	0.001						
Na-D	mg/L		882	924	983	886	904	942
Mo-D	mg/L	10	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Ni-D	mg/L		<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		4.58	4.95	4.84	4.82	4.35	4.4
S-D	mg/L		194	245	101	193	121	120
Sb-D	mg/L	0.2	<0.0025	<0.00050	<0.0025	<0.0025	<0.0025	<0.0025
Se-D	mg/L	0.02	0.0284	0.00559	<0.00050	0.0181	0.0374	0.0302
Si-D	mg/L		3.95	4.48	4.05	4.3	4.13	4.12
Sr-D	mg/L		1.74	1.60	1.88	1.65	1.78	1.75
TI-D	mg/L	0.003	<0.000050	0.000010	<0.000050	<0.000050	<0.000050	<0.000050
Ti-D	mg/L	1.00	<0.025	<0.0050	<0.025	<0.025	<0.025	<0.025
U-D	mg/L	3	<0.00050	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050
V-D	mg/L		<0.025	<0.0050	<0.025	<0.025	<0.025	<0.025
Zn-D	mg/L		<0.025	0.0112	<0.025	<0.025	<0.025	<0.025
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L							
NH3-CSR	mg/L		11.30	11.30	11.30	11.30	11.30	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells											
Wlevel	Well ID Top Elev. m	1280	QU1105D 228.95	QU1105D 228.95	QU1105D 228.95	QU1105D 228.95	QU1109S 226.897	QU1109S 226.897	QU1109S 226.897	QU1109S 226.897	QU1109S 226.897
Date	Duplicate Sample		M	M	R	M	M	M	M	M	M
Parameter	Units		26-Nov-25	15-Jan-26	15-Jan-26	12-Feb-26	1-Apr-25	28-Apr-25	12-May-25	26-May-25	23-Jun-25
SO4-D	mg/L	1280	180	280	420	320	520	770	700	830	870
H2SEquiv	mg/L	0.02	44.6	38.3	0.244	25.5	0.0478	0.0170	0.0361	0.0213	0.0765
Cond-F	uS/cm		333.7	5132.1			1940.5	2221.3	2257.8	2403	2640
pH-F	pH Units		7.71	7.9			6.94	6.75	6.7	6.83	6.68
Temp-F	C		8.8	8.446			9.77	11.38	9.256	10.105	10.9
DO-F	mg/L		0.41	-0.58			1.07	2.38	4.02	3.36	3.8
ORP-F	mV		-342	-358.1			70.5	-50.2	-83.5	-51.4	5.8
Turb	NTU		1.4	23	19			150	150		92
Alk-T	mg/L		310	300	460	290	490	490	490	500	490
Acidity83	mg/L		<1.0	1.1	<1.0	<1.0	5.2	11.3	17.9	10.6	26.2
N-D	mg/L										
DOC	mg/L		0.71	1.4	1.2	<0.50	0.87	3.1	0.81	0.88	1.1
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		380	370	560	360	600	600	600	610	600
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1300	1300	13	1200	22	20	18	17	10
F-D	mg/L		<0.050	<0.050	0.3	<0.050	0.11	0.072	0.063	0.063	0.057
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		2.85	2.17	0.024	2.4	<0.10	0.042	0.034	0.032	0.016
P-D	mg/L								0.0038		
Al-D	mg/L		0.0081	<0.0030	<0.0030	<0.015	0.00063	<0.0060	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.00010	<0.000050	<0.000040	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00045	0.112	0.107	<0.00050	0.00195	0.00250	0.00241	0.00241	0.00212
Ba-D	mg/L	10	0.173	0.0647	0.0615	0.109	0.0228	0.0236	0.0211	0.0209	0.0226
B-D	mg/L	12	0.36	1.32	1.34	0.54	0.896	1.08	1.00	1.06	1.15
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00050	<0.000010	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0050	<0.0000050	<0.0020	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000050	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		144	99.2	97.3	130	110	155	166	176	204
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0050	<0.00010	<0.0020	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.0010	0.0000420	<0.00040	0.00063	0.00068	0.00451
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.0010	0.000131	<0.00040	<0.00040	<0.00040	0.00041
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		<0.0050	2.13	2.15	<0.025	7.44	11.9	12.3	13.0	9.74
Hard-D	mg/L		377	299	294	345	325	466	492	524	618
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.0010	<0.0000050	<0.00040	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.110	0.110	0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		4.13	12.4	12.4	4.95	12.1	19.5	18.8	20.5	26.7
Mn-D	mg/L		0.103	0.233	0.232	0.0535	0.394	0.763	0.854	0.945	1.42
Hg-D	mg/L	0.001									
Na-D	mg/L		927	290	284	894	325	396	376	383	419
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0050	0.000971	<0.0020	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0050	0.000091	<0.0020	<0.0020	<0.0020	0.0048
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		4.66	5.97	5.82	4.71	5.10	5.93	6.12	6.21	6.82
S-D	mg/L		308	176	174	248	184	286	278	294	346
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.0025	0.000027	<0.0010	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.02	0.00717	0.00095	0.00079	0.0372	<0.000040	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L		4.27	4.82	4.84	4.33	3.55	3.60	3.61	3.90	3.66
Sr-D	mg/L		2	1.54	1.5	1.59	1.23	1.91	1.75	1.91	2.47
Ti-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000050	<0.0000020	<0.000020	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.025	0.00076	<0.010	<0.010	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00050	0.0000350	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.025	<0.00020	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.025	0.00739	0.014	<0.010	<0.010	<0.010
Zn-CSR	mg/L		2.400	1.650	1.650	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L										
NH3-CSR	mg/L		11.30	11.3			18.40	18.40	18.4	18.40	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells										
Well ID	Top Elev.		QU1109S	QU0810	QU0813A	QU0813A	QU0813A	QU0813A	QU0813A	QU0813A
Wlevel	m	1280	226.897	295.7179556	221.0979556	221.0979556	221.0979556	221.0979556	221.0979556	221.0979556
Date	Duplicate Sample		M	M	M	M	R	M	M	M
Parameter	Units		7-Jul-25	24-Mar-26	28-Apr-25	17-Jun-25	17-Jun-25	23-Jul-25	23-Sep-25	5-Nov-25
SO4-D	mg/L	1280	940	210	84	87	87	75	75	85
H2SEquiv	mg/L	0.02	0.0776	0.0105	0.223	0.266	0.266	0.223	0.191	0.170
Cond-F	uS/cm		2730	665.9	558.7	599.2	599.2	494.7	238.9	204
pH-F	pH Units		6.73	6.77	7.6	7.6	7.6	7.93	7.55	7.57
Temp-F	C		12	6.8	9.3	10.219	10.219	9.814	10.3	9.1
DO-F	mg/L			1.89	0.47	-0.41	-0.41	-0.47	0.28	0.35
ORP-F	mV			52.6	-163.1	-197.4	-197.4	-146.7	-106.6	-62.2
Turb	NTU		40	30	2.8			2.9	3.1	3.6
Alk-T	mg/L		490	240	210	210	210	180	160	160
Acidity83	mg/L		22.0	10.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
N-D	mg/L									
DOC	mg/L		0.83	0.74	0.82	0.97	0.53	0.69	0.88	0.71
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		600	300	260	250	250	220	200	200
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	9.5	<1.0	18	19	19	13	6.7	8
F-D	mg/L		<0.050	0.33	0.60	0.61	0.61	0.58	0.59	0.59
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.10	<0.010	0.030	0.028	0.028	0.038	0.012	0.017
P-D	mg/L									
Al-D	mg/L		<0.0060	<0.0030	0.00098	0.0180	0.0148	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000040	<0.000020	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00215	0.00213	0.395	0.397	0.407	0.448	0.493	0.49
Ba-D	mg/L	10	0.0217	0.035	0.186	0.182	0.188	0.157	0.164	0.163
B-D	mg/L	12	1.09	0.317	0.800	0.671	0.705	0.759	0.538	0.665
Be-D	mg/L	0.053	<0.00020	<0.00010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0020	<0.0010	<0.0000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000020	<0.000010	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		220	129	49.7	47.7	51.0	43.5	48.0	47.8
Cr-D	mg/L	0.01	<0.0020	<0.0010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00452	0.00795	0.0000087	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		0.00083	0.00037	<0.000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0800	0.0700	0.0800	0.0700	0.0700	0.0700
Fe-D	mg/L		10.4	0.805	0.222	0.223	0.238	0.24	0.264	0.287
Hard-D	mg/L		659	433	177	168	177	156	162	166
Pb-D	mg/L		<0.00040	<0.00020	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.0600	0.0600	0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L		26.7	27	12.9	11.9	12.2	11.6	10.2	11.3
Mn-D	mg/L		1.56	0.238	0.0436	0.0424	0.0428	0.0404	0.0427	0.0499
Hg-D	mg/L	0.001								
Na-D	mg/L		400	6.55	69.6	62.9	63.5	57.7	39.4	43.7
Mo-D	mg/L	10	<0.0020	0.001	0.000353	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0049	0.0076	<0.000020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50	1.10	1.10	1.10	1.10	1.10	1.10
K-D	mg/L		7.20	3.35	2.60	2.51	2.58	2.46	2.45	2.42
S-D	mg/L		372	68.8	31.8	34.8	35.6	25.8	28.8	32.1
Sb-D	mg/L	0.2	<0.0010	<0.00050	0.000043	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.00041	<0.00010	0.000092	0.00129	0.00131	0.00181	0.00176	0.00016
Si-D	mg/L		3.61	3.35	3.89	3.82	3.93	3.91	3.97	3.89
Sr-D	mg/L		2.66	1.19	0.716	0.694	0.715	0.647	0.670	0.696
Tl-D	mg/L	0.003	<0.000020	<0.000010	<0.0000020	0.000011	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.010	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00020	0.00026	0.0000114	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.010	<0.0050	<0.00020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.010	0.0071	0.00017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	0.900	0.900	0.900	0.900	0.900	0.900
N-NH3	mg/L									
NH3-CSR	mg/L		18.40	18.40	11.3	11.3	11.3	11.30	11.30	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID		QU0813A	QU0813A	QU0813A	QU0813A	QU0813B	QU0813B
	Top Elev. 1280		221.0979556	221.0979556	221.0979556	221.0979556	221.0979556	221.0979556
Date	Duplicate Sample		R	M	R	M	M	M
			5-Nov-25	13-Jan-26	13-Jan-26	24-Mar-26	12-May-25	17-Jun-25
Parameter	Units							
SO4-D	mg/L	1280	85	73	78	69	130	100
H2SEquiv	mg/L	0.02	0.170	0.202	0.202	0.255	0.0170	0.0181
Cond-F	uS/cm		204	582	582	444.6	508.6	476.5
pH-F	pH Units		7.57	7.4	7.4	7.8	7.68	7.75
Temp-F	C		9.1	8.584	8.584	8.638	9.482	8.925
DO-F	mg/L		0.35	-0.19	-0.19	0.12	-0.42	-0.41
ORP-F	mV		-62.2	-127.7	-127.7	-175.4	-175.5	-178.2
Turb	NTU		3.8	3.1	2.6	3.5	4.3	
Alk-T	mg/L		170	170	170	170	130	140
Acidity83	mg/L		<1.0	1.4	1.2	<1.0	<1.0	<1.0
N-D	mg/L							
DOC	mg/L		0.82	<0.50	<0.50	0.81	2.1	0.98
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		200	210	210	210	160	170
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	8.2	9.5	9.4	10	1.4	3.4
F-D	mg/L		0.61	0.58	0.56	0.56	0.29	0.34
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.017	0.018	0.019	<0.010	<0.010	<0.010
P-D	mg/L						0.15	
Al-D	mg/L		<0.0030	<0.0030	<0.0030	0.0031	<0.0030	0.0080
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.493	0.506	0.495	0.464	0.499	0.512
Ba-D	mg/L	10	0.165	0.151	0.147	0.138	0.0797	0.0718
B-D	mg/L	12	0.654	0.602	0.602	0.643	0.308	0.367
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000500	0.000600	0.000600
Ca-D	mg/L		46.7	47.6	47.6	41.9	57.7	51.6
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0700	0.0700	0.0700	0.0600	0.0800	0.0700
Fe-D	mg/L		0.284	0.283	0.277	0.253	0.350	0.324
Hard-D	mg/L		163	164	164	145	188	168
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L		11.3	11.1	11	9.92	10.5	9.48
Mn-D	mg/L		0.0494	0.0432	0.043	0.0441	0.0991	0.0841
Hg-D	mg/L	0.001						
Na-D	mg/L		43.3	46	46	43.4	33.6	34.6
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	0.0023	0.0022
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.10	1.10	1.10	1.10	1.50	1.10
K-D	mg/L		2.44	2.5	2.46	2.1	1.72	1.62
S-D	mg/L		32.3	30.1	29.2	26.1	45.3	36.9
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	0.00051	0.00062	0.00035	<0.00010	<0.00010
Si-D	mg/L		3.84	4.01	4.03	3.57	4.31	4.22
Sr-D	mg/L		0.703	0.7	0.675	0.645	0.453	0.416
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		0.900	0.900	0.900	0.900	0.900	0.900
N-NH3	mg/L							
NH3-CSR	mg/L		11.30	18.5	18.5	11.3	11.30	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells										
Well ID		QU0813B	QU0813B	QU0813B	QU0813B	QU0813B	QU0813B	QU0813B	QU1136D	QU1136D
Top Elev.		221.0979556	221.0979556	221.0979556	221.0979556	221.0979556	221.0979556	221.0979556	285.891189	285.891189
Wlevel		m 1280	5.67	5.67	6.67	6.67	5.57	4.145	24.09	24.09
Duplicate Sample		M	M	R	M	R	M	M	M	R
Date		15-Jul-25	15-Jul-25	23-Sep-25	23-Sep-25	5-Nov-25	13-Jan-26	31-Mar-26	31-Mar-26	31-Mar-26
Parameter	Units									
SO4-D	mg/L	1280	110	120	140	140	140	92	12	12
H2SEquiv	mg/L	0.02	0.0223	0.0223	0.0128	0.0105	0.0159	0.0319	0.0128	0.0149
Cond-F	uS/cm		513.5	513.5	256.9	256.9	210.3	564	280.8	280.8
pH-F	pH Units		7.72	7.72	7.66	7.66	7.62	7.49	7.58	7.58
Temp-F	C		10.512	10.512	9.5	9.5	8.5	8.496	7.602	7.602
DO-F	mg/L		-0.42	-0.42	0.3	0.3	2.22	0.41	0.05	0.05
ORP-F	mV		-98.3	-98.3	-71.6	-71.6	-25.8	-80.9	-137.8	-137.8
Turb	NTU		2.9	3.1	10	10	5.6	2.7		
Alk-T	mg/L		130	140	130	130	130	150	160	160
Acidity83	mg/L		1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
N-D	mg/L									
DOC	mg/L		1.2	1.2	1.1	0.99	1.3	<0.50	<0.50	<0.50
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		160	170	160	160	160	180	200	190
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1.6	2.0	1.3	1.0	<1.0	4.4	<1.0	<1.0
F-D	mg/L		0.31	0.31	0.33	0.33	0.34	0.33	0.71	0.72
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	0.012	<0.010	<0.010
P-D	mg/L									
Al-D	mg/L		<0.0030	<0.0030	0.0110	0.0135	<0.0030	<0.0030	<0.0060	<0.0060
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.538	0.538	0.588	0.581	0.557	0.585	0.753	0.746
Ba-D	mg/L	10	0.0713	0.0704	0.0796	0.0797	0.0786	0.0722	0.104	0.105
B-D	mg/L	12	0.339	0.334	0.324	0.326	0.376	0.47	0.68	0.75
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000500	0.000600
Ca-D	mg/L		53.2	53.0	63.0	65.9	57.7	53.9	41.7	45.1
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Cu-CSR	mg/L		0.0800	0.0800	0.0900	0.0900	0.0800	0.0800	0.0600	0.0700
Fe-D	mg/L		0.341	0.333	0.386	0.400	0.368	0.327	0.521	0.528
Hard-D	mg/L		175	175	201	210	190	175	139	152
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Pb-CSR	mg/L		0.0600	0.0600	0.110	0.110	0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L		10.1	10.3	10.7	11.0	11	9.8	8.52	9.58
Mn-D	mg/L		0.0838	0.0841	0.0911	0.0903	0.0929	0.0761	0.0294	0.029
Hg-D	mg/L	0.001								
Na-D	mg/L		32.8	32.8	30.8	31.5	31	37.7	9.82	10.6
Mo-D	mg/L	10	0.0020	0.0019	0.0021	0.0021	0.0021	0.0023	0.0022	<0.0020
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Ni-CSR	mg/L		1.10	1.10	1.50	1.50	1.50	1.10	1.10	1.10
K-D	mg/L		1.58	1.59	1.84	1.91	1.77	1.85	0.77	0.8
S-D	mg/L		38.4	39.6	46.5	49.4	46.6	36.9	<6.0	<6.0
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Si-D	mg/L		4.17	4.16	4.48	4.69	4.26	4.54	4.74	5.27
Sr-D	mg/L		0.396	0.396	0.477	0.472	0.466	0.441	0.434	0.46
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Zn-CSR	mg/L		0.900	0.900	1.650	1.650	0.900	0.900	0.900	0.900
N-NH3	mg/L									
NH3-CSR	mg/L		11.30	11.30	11.30	11.30	11.30	18.50	11.30	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells							
Well ID		QU1009S		QU1009S		QU1009S	
Top Elev.		303.8		303.8		303.8	
m		1280		3.57		2.37	
Duplicate Sample		M		R		M	
Date		12-Aug-25		12-Aug-25		14-Jan-26	
Parameter		Units		12-Aug-25		12-Aug-25	
SO4-D	mg/L	1280	99	98	110	58	72
H2SEquiv	mg/L	0.02	0.0266	0.0234	0.0351	0.0680	0.0521
Cond-F	uS/cm		507.8	507.8	517	480.5	533
pH-F	pH Units		6.99	6.99	6.86	7.72	7.15
Temp-F	C		12.39	12.39	8.935	12.32	8.616
DO-F	mg/L		-0.32	-0.32	-0.12	0.29	-0.01
ORP-F	mV		177.8	177.8	-92.7	145.3	-57.4
Turb	NTU		37	29	17	5.4	11
Alk-T	mg/L		140	140	140	180	190
Acidity83	mg/L		5.4	5.7	<1.0	1.6	<1.0
N-D	mg/L						
DOC	mg/L		1.5	1.5	1.4	1.2	1.2
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		170	170	180	220	230
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	1.3	1.2	1.1
F-D	mg/L		<0.050	<0.050	<0.050	0.21	0.096
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.023	0.023	0.019	0.013	<0.010
P-D	mg/L						
Al-D	mg/L		0.0141	0.0141	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0833	0.086	0.0851	0.107	0.0943
Ba-D	mg/L	10	0.12	0.123	0.128	0.124	0.147
B-D	mg/L	12	0.061	0.067	0.07	0.553	0.267
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		69.7	75.5	77.4	50.8	69.6
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0700	0.0900
Fe-D	mg/L		4.44	4.79	4.8	0.585	1.08
Hard-D	mg/L		219	232	237	171	230
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.110	0.110	0.110	0.0600	0.110
Mg-D	mg/L		11	10.6	10.6	10.7	13.6
Mn-D	mg/L		0.377	0.372	0.399	0.0612	0.0856
Hg-D	mg/L	0.001					
Na-D	mg/L		9.61	9.4	9.6	33.9	17.5
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50	1.50	1.10	1.50
K-D	mg/L		0.667	0.671	0.743	1.53	1.51
S-D	mg/L		36.5	36.5	41.9	21.9	30.2
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		8.63	9.07	9.77	9.57	11.1
Sr-D	mg/L		0.264	0.272	0.311	0.894	1.15
Ti-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		1.650	1.650	1.650	0.900	1.650
N-NH3	mg/L						
NH3-CSR	mg/L		18.40	18.40	18.40	11.30	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells						
Well ID	Top Elev.	5M#2	5M#2	5M#2	5M#2	
268.22	268.22	268.22	268.22	268.22	268.22	
Wlevel	m	1280	27.37	M	M	M
Date	Duplicate Sample	15-Apr-25	12-May-25	3-Jun-25	7-Jul-25	
Parameter	Units					
SO4-D	mg/L	1280	390	360	300	290
H2SEquiv	mg/L	0.02	0.0138	0.0149	0.0170	0.0244
Cond-F	uS/cm		2000	1741	1665	1634.1
pH-F	pH Units		7.15	7.13	7.15	6.93
Temp-F	C		9.2	22.1	11.2	9.42
DO-F	mg/L					
ORP-F	mV					
Turb	NTU		10		9.7	12
Alk-T	mg/L		540	550	570	550
Acidity83	mg/L		<1.0	7.8	<1.0	1.3
N-D	mg/L		0.179			0.214
DOC	mg/L		0.94	0.91	1.3	0.83
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		660	670	690	680
Carb	mg/L		<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	7.7	8.5	13	15
F-D	mg/L		0.063	0.058	0.065	0.057
Flu-CSR	mg/L		3.00	3.00	3.00	3.00
Br-D	mg/L		0.018	0.014	0.023	0.023
P-D	mg/L		0.0032	<0.0030	<0.0030	<0.0030
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0060
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00918	0.00077	0.00677	0.00677
Ba-D	mg/L	10	0.0369	0.0343	0.0317	0.0314
B-D	mg/L	12	1.16	0.910	1.04	1.38
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00020
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0020
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		111	110	91.4	83.3
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0020
Co-D	mg/L	0.009	0.00032	0.00039	<0.00020	<0.00040
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		1.10	3.75	0.995	1.08
Hard-D	mg/L		324	313	259	242
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.110	0.110
Mg-D	mg/L		11.1	9.39	7.42	8.24
Mn-D	mg/L		0.235	0.235	0.174	0.179
Hg-D	mg/L	0.001				
Na-D	mg/L		317	293	282	292
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0020
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0020
Ni-CSR	mg/L		1.50	1.50	1.50	1.50
K-D	mg/L		3.62	3.40	3.09	3.15
S-D	mg/L		165	140	116	114
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.0010
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00020
Si-D	mg/L		3.50	3.41	3.42	3.20
Sr-D	mg/L		1.32	1.16	1.02	1.05
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000020
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.010
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00020
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.010
Zn-D	mg/L		0.0182	<0.0050	<0.0050	<0.010
Zn-CSR	mg/L		2.400	2.400	1.650	1.650
N-NH3	mg/L		0.12			
NH3-CSR	mg/L		18.50	18.50	18.50	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID		5M#2	5M#2	5M#2	5M#2	5M#2	5M#2
	Top Elev.		268.22	268.22	268.22	268.22	268.22	268.22
	m	1280					37.843	
Date	Duplicate Sample		M	M	M	M	M	M
Parameter	Units		7-Aug-25	6-Oct-25	6-Nov-25	9-Dec-25	8-Jan-26	2-Mar-26
SO4-D	mg/L	1280	380	370	370	290	240	250
H2SEquiv	mg/L	0.02	0.0213	0.0244	0.0159	0.0223	0.0234	0.0181
Cond-F	uS/cm		1818	1689	1713	1591	1495	1472.8
pH-F	pH Units		7.09	7.34	7.21	7.19	7.63	6.8
Temp-F	C		12.2	11.1	10.5	9.3	8.3	9.14
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		7.6	12	11	12	9.7	13
Alk-T	mg/L		560	570	570	590	570	580
Acidity83	mg/L		3.6	<1.0	<1.0	1.9	31.6	7.7
N-D	mg/L		0.230					
DOC	mg/L		0.88	0.71	0.81	0.81	1.1	<0.50
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		690	690	700	720	700	710
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	8.3	10	11	10	7.7	9
F-D	mg/L		0.056	0.061	<0.050	0.055	0.073	0.064
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.020	0.022	0.024	0.015	0.017	0.02
P-D	mg/L		<0.0030					
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00842	0.00777	0.00836	0.00966	0.0102	0.00832
Ba-D	mg/L	10	0.0320	0.0320	0.0308	0.0281	0.0234	0.0257
B-D	mg/L	12	1.12	1.10	1.11	0.956	0.961	1.12
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		115	99.2	90.9	90.5	80.2	81.7
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00025	<0.00020	<0.00020	0.00024	0.00025	<0.00020
Cu-D	mg/L		0.00028	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		1.07	1.13	1	0.935	0.808	1.04
Hard-D	mg/L		329	284	264	259	228	233
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.110	0.110	0.110	0.110	0.110
Mg-D	mg/L		10.3	8.70	9.06	8.08	6.65	6.94
Mn-D	mg/L		0.234	0.203	0.205	0.2	0.176	0.171
Hg-D	mg/L	0.001						
Na-D	mg/L		335	306	300	302	249	269
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		3.32	3.07	3.13	3.08	2.82	2.95
S-D	mg/L		149	133	130	112	88	90.3
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.56	3.53	3.29	3.46	3.6	3.71
Sr-D	mg/L		1.20	1.16	1.05	1.11	0.856	0.879
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	0.0080	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	1.650	1.650	1.650	1.650	1.650
N-NH3	mg/L							
NH3-CSR	mg/L		18.50	18.50	18.50	18.50	11.30	18.4

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID Top Elev. m	1280	1M2N 262.43 24.9 M 15-Apr-25	1M2N 262.43 M 12-May-25	1M2N 262.43 M 3-Jun-25	1M2N 262.43 M 7-Jul-25	1M2N 262.43 M 7-Aug-25	1M2N 262.43 M 6-Oct-25
Date Parameter	Units							
SO4-D	mg/L	1280	700	700	950	950	850	990
H2SEquiv	mg/L	0.02	0.0797	0.0117	0.0797	0.0733	0.0574	0.0925
Cond-F	uS/cm		2056	2310	2690	2695.3	2580	2062
pH-F	pH Units		7.06	6.87	6.85	6.66	6.85	7.39
Temp-F	C		9.6	15	11.4	10.53	11.9	11.7
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		72		110	96	72	95
Alk-T	mg/L		490	500	490	500	500	520
Acidity83	mg/L		8.9	15.1	5.4	13.0	11.9	5.0
N-D	mg/L		0.373			0.351	0.377	
DOC	mg/L		1.1	0.81	1.7	0.89	1.0	0.71
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		600	610	600	610	610	630
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	10	12	9.2	9.2	8.5	14
F-D	mg/L		0.061	0.061	0.058	<0.050	0.068	0.056
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.024	0.023	0.019	<0.10	0.021	0.027
P-D	mg/L		0.0041	0.0062	0.0046	0.0035	0.0033	
Al-D	mg/L		0.0056	<0.0060	<0.0060	<0.0060	<0.0030	<0.0060
Ag-D	mg/L		<0.000020	<0.000040	<0.000040	<0.000040	<0.000020	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00246	0.0144	0.00305	0.00302	0.00443	0.00285
Ba-D	mg/L	10	0.0269	0.0261	0.0239	0.0253	0.0239	0.0207
B-D	mg/L	12	1.13	1.01	1.12	1.06	1.22	1.07
Be-D	mg/L	0.053	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020
Bi-D	mg/L		<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Cd-D	mg/L		<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		173	178	249	243	210	213
Cr-D	mg/L	0.01	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Co-D	mg/L	0.009	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040
Cu-D	mg/L		0.00020	<0.00040	<0.00040	<0.00040	0.00042	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		5.88	8.35	8.51	8.97	7.49	8.06
Hard-D	mg/L		521	519	723	710	615	627
Pb-D	mg/L		<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		21.4	18.4	24.7	25.0	22.0	23.0
Mn-D	mg/L		0.599	0.575	0.823	0.963	0.819	0.727
Hg-D	mg/L	0.001						
Na-D	mg/L		365	340	370	359	402	365
Mo-D	mg/L	10	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Ni-D	mg/L		<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		5.75	5.45	6.03	6.35	6.05	5.63
S-D	mg/L		302	255	366	356	342	325
Sb-D	mg/L	0.2	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050	<0.0010
Se-D	mg/L	0.02	<0.00010	<0.00020	<0.00020	0.00059	<0.00010	0.00069
Si-D	mg/L		3.83	3.76	4.01	4.03	4.17	4.17
Sr-D	mg/L		1.95	1.75	2.52	2.74	2.30	2.35
Tl-D	mg/L	0.003	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020
Ti-D	mg/L	1.00	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010
U-D	mg/L	3	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020
V-D	mg/L		<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010
Zn-D	mg/L		<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L		0.25					
NH3-CSR	mg/L		18.50	18.40	18.40	18.40	18.40	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells						
Well ID	Top Elev.		1M2N	1M2N	1M2N	1M2N
262.43			262.43	262.43	262.43	262.43
Wlevel	m	1280	39.72		41.22	22.405
Duplicate Sample			M	M	M	M
Date			6-Nov-25	9-Dec-25	8-Jan-26	2-Mar-26
Parameter	Units					
SO4-D	mg/L	1280	880	780	710	670
H2SEquiv	mg/L	0.02	0.0563	0.0712	0.0776	0.104
Cond-F	uS/cm		2630	2410	2240	2165.6
pH-F	pH Units		7.04	6.99	7.09	6.75
Temp-F	C		11.9	9.5	10.2	9.91
DO-F	mg/L					
ORP-F	mV					
Turb	NTU		110	75	22	69
Alk-T	mg/L		510	510	510	520
Acidity83	mg/L		1.5	7.8	40.8	9.4
N-D	mg/L					
DOC	mg/L		0.76	0.82	0.99	0.74
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		620	630	630	630
Carb	mg/L		<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	10	11	8.7	11
F-D	mg/L		<0.050	0.062	0.084	0.075
Flu-CSR	mg/L		3.00	3.00	3.00	3.00
Br-D	mg/L		0.022	0.018	<0.010	0.021
P-D	mg/L					
Al-D	mg/L		<0.0060	<0.0060	<0.0030	<0.0030
Ag-D	mg/L		<0.000040	<0.000040	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00283	0.00354	0.00415	0.00201
Ba-D	mg/L	10	0.0231	0.0214	0.0198	0.0172
B-D	mg/L	12	1.16	1.06	1.04	1.06
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00010	<0.00010
Bi-D	mg/L		<0.0020	<0.0020	<0.0010	<0.0010
Cd-D	mg/L		<0.000020	<0.000020	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		220	206	169	156
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00040	<0.00040	<0.00020	<0.00020
Cu-D	mg/L		<0.00040	<0.00040	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		7.89	7	5.03	4.87
Hard-D	mg/L		654	603	488	454
Pb-D	mg/L		<0.00040	<0.00040	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160	0.160
Mg-D	mg/L		25.3	21.5	16.1	15.7
Mn-D	mg/L		0.792	0.801	0.599	0.509
Hg-D	mg/L	0.001				
Na-D	mg/L		381	392	333	342
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0010	<0.0010
Ni-D	mg/L		<0.0020	<0.0020	<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50	1.50	1.50
K-D	mg/L		6.07	5.58	5.29	5.26
S-D	mg/L		341	322	262	255
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00020	<0.00020	<0.00010	<0.00010
Si-D	mg/L		4.1	3.97	4.06	3.96
Sr-D	mg/L		2.29	2.27	1.69	1.56
Tl-D	mg/L	0.003	<0.000020	<0.000020	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.010	<0.010	<0.0050	<0.0050
U-D	mg/L	3	<0.00020	<0.00020	<0.00010	<0.00010
V-D	mg/L		<0.010	<0.010	<0.0050	<0.0050
Zn-D	mg/L		<0.010	<0.010	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400	2.400
N-NH3	mg/L					
NH3-CSR	mg/L		18.50	18.40	18.50	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID	Top Elev.	3M2N	3M2N	3M2N	3M2N	3M2N	3M2N	3M2N
Date	Parameter	Units	M	M	M	M	M	M	M
Date	Parameter	Units	16-Apr-25	12-May-25	3-Jun-25	7-Jul-25	11-Aug-25	3-Sep-25	6-Oct-25
SO4-D	mg/L	1280	610	550	590	630	680	720	740
H2SEquiv	mg/L	0.02	0.000957		0.000957				
Cond-F	uS/cm		2003		1981	1930	2030		
pH-F	pH Units		7.16		7.09	7.48	7.28		
Temp-F	C		12.3		11.2	10.58	15.1		
DO-F	mg/L								
ORP-F	mV								
Turb	NTU		1.9		4.3	7.3	8.2	6.7	7.8
Alk-T	mg/L		350	360	370	360	380	370	380
Acidity83	mg/L		<1.0	3.1	<1.0	1.2	<1.0	<1.0	<1.0
N-D	mg/L		0.218			0.287	0.235	0.321	
DOC	mg/L		1.0	1.0	1.0	0.84	0.96	0.79	0.69
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		430	440	450	450	460	450	460
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	2.1	2.2	2.2	2.4	2.6	2.6	2.5
F-D	mg/L		0.12	0.11	0.12	0.11	0.11	0.12	0.12
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	0.033	<0.010	<0.010
P-D	mg/L		<0.0030	<0.0030	0.0043	<0.0030	<0.0030	<0.0030	
Al-D	mg/L		0.0119	0.00591	<0.0030	<0.0060	0.0047	0.0076	<0.0030
Ag-D	mg/L		<0.000020	<0.000050	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00029	0.000235	0.00024	0.00020	0.00015	0.00015	0.00045
Ba-D	mg/L	10	0.0142	0.0129	0.0132	0.0149	0.0141	0.0144	0.0163
B-D	mg/L	12	0.820	0.693	0.722	0.76	0.808	0.802	0.763
Be-D	mg/L	0.053	<0.00010	<0.000010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.000050	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	0.0000380	<0.000010	0.000051	0.000011	0.000012	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		120	114	123	135	142	134	137
Cr-D	mg/L	0.01	<0.0010	<0.00010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00068	0.000690	0.00058	0.00060	0.00171	0.00485	0.00066
Cu-D	mg/L		0.00059	0.000303	0.00030	<0.00040	0.00101	0.00112	0.00034
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		0.0280	0.0527	0.0444	0.101	0.0257	0.0184	0.0097
Hard-D	mg/L		385	352	375	416	439	419	424
Pb-D	mg/L		<0.00020	0.0000220	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		20.3	16.3	16.4	19.2	20.7	20.4	19.7
Mn-D	mg/L		0.137	0.189	0.220	0.245	0.227	0.213	0.213
Hg-D	mg/L	0.001							
Na-D	mg/L		327	281	283	308	329	323	301
Mo-D	mg/L	10	<0.0010	0.000370	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0018	0.00138	<0.0010	<0.0020	0.0035	0.0091	0.0011
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		3.58	3.24	3.27	3.38	3.43	3.55	3.36
S-D	mg/L		270	209	224	250	256	263	255
Sb-D	mg/L	0.2	<0.00050	<0.000020	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.000040	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.05	3.25	3.10	3.19	3.19	3.09	3.21
Sr-D	mg/L		1.36	1.16	1.26	1.51	1.4	1.53	1.57
Ti-D	mg/L	0.003	<0.000010	<0.0000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.00050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	0.0000530	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.00020	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0233	0.00250	<0.0050	<0.010	<0.0050	0.0056	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L		0.078						
NH3-CSR	mg/L		18.50		18.50	18.50	18.50		

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID Top Elev. m	1280	INF 353.5 M 1-Apr-25	INF 353.5 M 5-May-25	INF 353.5 M 2-Jun-25	INF 353.5 M 2-Jul-25	INF 353.5 M 5-Aug-25	INF 353.5 M 2-Sep-25
Date Parameter	Units							
SO4-D	mg/L	1280	400	480	550	570	590	540
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		1236	1470	1518	1563	1574	1539
pH-F	pH Units		7.18	7.12	7.16	7	7.16	7.06
Temp-F	C		8.8	10.9	10.6	11.5	11.2	12.7
DO-F	mg/L							
ORP-F	mV							
Turb	NTU					19	26	22
Alk-T	mg/L		210	240	260	260	260	270
Acidity83	mg/L		3.1	8.3	4.3	<1.0	1.2	<1.0
N-D	mg/L							
DOC	mg/L							
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		260	300	310	310	320	320
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500		<1.0		<1.0		
F-D	mg/L			0.12		0.14		
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			<0.010		<0.010		
P-D	mg/L							
Al-D	mg/L		0.00066	<0.00050	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.0000050	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.000540	0.00182	0.00222	0.00206	0.00238	0.00209
Ba-D	mg/L	10	0.0184	0.0197	0.0186	0.0202	0.0199	0.0202
B-D	mg/L	12	0.529	0.659	0.559	0.608	0.667	0.773
Be-D	mg/L	0.053	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0000050	<0.0000050	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		168	211	227	207	230	235
Cr-D	mg/L	0.01	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00150	0.00172	0.00122	0.00112	0.00099	0.00096
Cu-D	mg/L		0.000355	<0.000050	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		0.180	1.52	1.70	1.67	1.90	1.90
Hard-D	mg/L		466	590	633	581	642	661
Pb-D	mg/L		0.0000060	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		11.1	15.2	15.9	15.5	16.2	17.7
Mn-D	mg/L		0.173	0.288	0.286	0.308	0.323	0.321
Hg-D	mg/L	0.001						
Na-D	mg/L		86.6	95.2	88.4	91.2	102	113
Mo-D	mg/L	10	0.000249	0.000406	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.00246	0.00189	0.0015	0.0015	0.0013	0.0013
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		1.58	1.76	1.77	1.74	1.91	1.85
S-D	mg/L		160	187	199	205	208	213
Sb-D	mg/L	0.2	0.000038	<0.000020	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.000079	0.000184	<0.00010	<0.00010	<0.00010	0.00016
Si-D	mg/L		2.50	3.11	3.04	2.92	3.14	3.02
Sr-D	mg/L		1.72	1.97	2.15	2.32	2.07	2.33
Tl-D	mg/L	0.003	0.0000022	<0.0000020	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.00050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.0000515	0.0000630	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.00020	<0.00020	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0134	0.00173	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L		0.018	0.038	0.082			0.059
NH3-CSR	mg/L		18.50	18.50	18.50	20	18.50	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID Top Elev. m	1280	INF 353.5	INF 353.5	INF 353.5	INF 353.5	INF 353.5	INF 353.5
Date	Parameter	Units	M 1-Oct-25	M 3-Nov-25	M 1-Dec-25	M 5-Jan-26	M 2-Feb-26	M 2-Mar-26
SO4-D	mg/L	1280	520	480	510	440	440	430
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		1490	1366	1434	1376	1227	1400
pH-F	pH Units		7.25	7.11	7.09	6.99	7.12	6.96
Temp-F	C		9	8.5	7.2	7.6	9.1	9.5
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		26	18		20	5.8	13
Alk-T	mg/L		270	260	250	250	230	240
Acidity83	mg/L		<1.0	1.9	3	1.4	4.4	5.3
N-D	mg/L							
DOC	mg/L						1.1	
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		330	310	310	300	280	290
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500						
F-D	mg/L							
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L							
P-D	mg/L							
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00234	0.00272	0.00233	0.00204	0.00067	0.00123
Ba-D	mg/L	10	0.0181	0.0183	0.0167	0.0171	0.0162	0.0175
B-D	mg/L	12	0.820	0.686	0.737	0.779	0.558	0.724
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		230	220	209	197	174	171
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00083	0.00104	0.00052	0.0004	0.00065	0.00058
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		2.09	2.3	1.94	1.55	0.282	1.3
Hard-D	mg/L		640	612	585	552	479	477
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		16.3	15.1	15.2	14.7	10.6	12
Mn-D	mg/L		0.329	0.321	0.29	0.245	0.192	0.234
Hg-D	mg/L	0.001						
Na-D	mg/L		105	105	107	112	84.8	101
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0011	0.0017	<0.0010	<0.0010	0.0011	<0.0010
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		1.88	1.79	1.84	1.76	1.45	1.67
S-D	mg/L		196	188	199	185	146	157
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	0.00036	<0.00010	<0.00010
Si-D	mg/L		3.06	3.25	3.02	3	3.01	3.05
Sr-D	mg/L		1.99	1.95	1.9	1.8	1.57	1.62
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L						0.052	0.058
NH3-CSR	mg/L		18.50	18.50	18.50	18.40	18.50	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		MW002	MW002	MW002	MW002	MW002	MW002	MW002
	Top Elev.		325	325	325	325	325	325	325
	m	1280	2.49	2.49	3.09	3.56	3.56	3.499	3.499
Date	Duplicate Sample		M	R	M	M	R	M	R
Parameter	Units		27-May-25	27-May-25	12-Aug-25	2-Oct-25	2-Oct-25	14-Jan-26	14-Jan-26
SO4-D	mg/L	1280	1200	1200	1200	1200	1200	1200	1200
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957	0.000957	0.000957	0.00595	0.00542
Cond-F	uS/cm		2167	2167	2499	494.8	494.8	2428.5	2428.5
pH-F	pH Units		6.61	6.61	6.68	6.65	6.65	7.02	7.02
Temp-F	C		10.5	10.5	12	11.5	11.5	10.95	10.95
DO-F	mg/L		0.72	0.72	0.78	1.13		7.72	7.72
ORP-F	mV		71.7	71.7	-68.6			21.8	21.8
Turb	NTU		41	42	31	32	39	57	59
Alk-T	mg/L		270	270	260	270	270	270	270
Acidity83	mg/L		16.2	15.6	23.8	1.4	2.0	5.1	<1.0
N-D	mg/L								
DOC	mg/L		1.0	0.99	1.1	0.94	0.92	1	0.95
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		330	330	320	340	330	330	330
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	1.3	1.3	1.5	1.3	1.7	1.8
F-D	mg/L		0.089	0.095	0.085	0.10	0.10	0.085	0.087
Flu-CSR	mg/L		3.000	3.000	3.000	3.000	3.000	3.000	3.000
Br-D	mg/L		0.013	0.014	0.018	0.019	0.019	0.016	<0.010
P-D	mg/L								
Al-D	mg/L		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Ag-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Ag-CSR	mg/L		0.01500	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500
As-D	mg/L	0.05	0.00225	0.00222	0.00215	0.00209	0.00196	0.00275	0.00258
Ba-D	mg/L	10	0.0144	0.0148	0.0145	0.0128	0.0132	0.0146	0.0142
B-D	mg/L	12	0.62	0.64	0.8	0.89	0.89	0.74	0.75
Be-D	mg/L	0.053	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bi-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cd-D	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Cd-CSR	mg/L		0.0006000	0.0006000	0.0006000	0.0006000	0.0006000	0.0006000	0.0006000
Ca-D	mg/L		500	508	503	491	489	491	503
Cr-D	mg/L	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Co-D	mg/L	0.009	0.0031	0.0031	0.003	0.0030	0.0030	0.0026	0.0026
Cu-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-CSR	mg/L		0.09000	0.09000	0.09000	0.09000	0.09000	0.09000	0.09000
Fe-D	mg/L		5.65	5.73	5.86	5.96	5.99	5.54	5.67
Hard-D	mg/L		1450	1470	1480	1440	1440	1420	1460
Pb-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020
Pb-CSR	mg/L		0.1600	0.1600	0.1600	0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L		48.2	49.4	53.9	52.0	51.9	47.9	49.1
Mn-D	mg/L		1.87	1.88	1.97	1.63	1.64	1.57	1.6
Hg-D	mg/L	0.001							
Na-D	mg/L		44.6	45.1	47.9	49.2	49.0	46.3	46.8
Mo-D	mg/L	10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ni-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ni-CSR	mg/L		1.500	1.500	1.500	1.500	1.500	1.500	1.500
K-D	mg/L		5.42	5.44	5.1	5.69	5.83	5.77	5.8
S-D	mg/L		414	421	435	424	417	444	448
Sb-D	mg/L	0.2	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Se-D	mg/L	0.02	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Si-D	mg/L		3.69	3.73	3.69	4.00	3.96	3.85	3.94
Sr-D	mg/L		4.66	4.82	4.64	4.06	4.23	4.55	4.58
Ti-D	mg/L	0.003	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ti-D	mg/L	1.00	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
U-D	mg/L	3	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
V-D	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zn-D	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L								
NH3-CSR	mg/L		18.40	18.40	18.40	18.40	18.40	18.50	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		MW004	MW004	MW004	MW004	MW005	MW005	MW005
	Top Elev.		347.8	347.8	347.8	347.8	342.8	342.8	342.8
	m	1280	42.12	43.67	44.18	40.105	36.67	37.43	35.366
Date	Duplicate Sample		M	M	M	M	M	M	M
Parameter	Units		27-May-25	14-Aug-25	16-Oct-25	18-Feb-26	11-Jun-25	25-Aug-25	19-Feb-26
SO4-D	mg/L	1280	350	390	430	290	1600	1700	1500
H2SEquiv	mg/L	0.02	0.00935	0.00691	0.0138	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		941	1052	2130	845	3348	3600	2780.9
pH-F	pH Units		6.85	7.92	7.88	6.9	6.76	6.74	6.83
Temp-F	C		10.598	12.3	9.8	5.833	12.82	18.6	9.115
DO-F	mg/L		0.17	3.55	0.24	3.15	0.64	1.49	5.05
ORP-F	mV		147	116.1	-26.5	151.8	62.3	74	64.6
Turb	NTU		1.3	1.2	8.1			17	
Alk-T	mg/L		140	180	170	110	240	250	250
Acidity83	mg/L		2.5	3.6	<1.0	7.1	13.7	5.8	9.8
N-D	mg/L								
DOC	mg/L		2.0	2.3	1.9	<0.50	0.87	0.80	0.96
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		170	220	210	130	300	300	310
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	<1.0	<1.0	2.8	3.0	3.2
F-D	mg/L		0.064	0.072	0.061	0.082	0.17	0.18	0.17
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.000	3.000	3.00
Br-D	mg/L		<0.010	<0.010	0.011	<0.010	<0.10	0.011	<0.010
P-D	mg/L								
Al-D	mg/L		0.0062	0.0082	0.0165	0.0071	0.0066	<0.0060	<0.0060
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.01500	0.01500	0.0150
As-D	mg/L	0.05	0.00135	0.00085	0.00349	0.00027	0.00109	0.00163	0.0129
Ba-D	mg/L	10	0.0245	0.0236	0.0301	0.0199	0.0171	0.0149	0.022
B-D	mg/L	12	0.174	0.25	0.277	0.147	1.56	1.65	1.57
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	0.000048
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.0006000	0.0006000	0.000600
Ca-D	mg/L		154	189	180	135	419	381	318
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00020	0.00031	0.00098	<0.00020	0.00187	0.00212	0.00092
Cu-D	mg/L		0.00031	0.00027	0.00104	0.00099	<0.00040	<0.00040	0.00323
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.09000	0.09000	0.0900
Fe-D	mg/L		0.0165	0.0324	0.0156	<0.0050	1.29	1.85	0.724
Hard-D	mg/L		458	561	534	404	1220	1120	920
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.1600	0.1600	0.160
Mg-D	mg/L		17.6	22	20.4	16.4	42.7	41.3	30.7
Mn-D	mg/L		0.0102	0.0986	0.346	0.0044	0.323	0.331	0.188
Hg-D	mg/L	0.001							
Na-D	mg/L		27.8	34.2	44.2	23	400	391	362
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	0.0044	<0.0020	<0.0020
Ni-D	mg/L		<0.0010	<0.0010	0.0027	<0.0010	0.0045	0.0050	0.0049
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.500	1.500	1.50
K-D	mg/L		1.37	1.45	1.68	1.24	4.69	4.27	4.45
S-D	mg/L		128	154	157	112	653	644	484
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	0.0022
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Si-D	mg/L		3.08	3.16	3.18	3.46	3.00	2.81	2.54
Sr-D	mg/L		1.29	1.47	1.40	0.935	5.36	5.35	3.8
Ti-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	0.018
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L								
NH3-CSR	mg/L		18.40	11.30	11.30	18.4	18.40	18.40	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		QU1013D	QU1013D	QU1013D	QU1013D	QU1013D	QU1013D	QU1013D
	Top Elev.		270.68	270.68	270.68	270.68	270.68	270.68	270.68
	m	1280			31.74	31.74	35.36		55.8
Date	Duplicate Sample		M	M	M	R	M	M	M
Parameter	Units		17-Apr-25	28-Apr-25	21-May-25	21-May-25	17-Jun-25	15-Jul-25	20-Aug-25
SO4-D	mg/L	1280	910	970	960	950	900	980	840
H2SEquiv	mg/L	0.02	0.0276	0.0468	0.0106	0.0106	0.0361	0.00819	0.00287
Cond-F	uS/cm		2553.2	3204.8	2785	2785	1958	1921	2544
pH-F	pH Units		6.66	6.73	6.62	6.62	6.6	6.59	6.67
Temp-F	C		8.209	8.688	8.9	8.9	9.5	9.3	8.8
DO-F	mg/L		-0.01	0.25	1.18	1.18	1.86	0.82	3.43
ORP-F	mV		0.7	-116.2	15.4	15.4	32.8	-48.6	27.9
Turb	NTU		66				45	72	39
Alk-T	mg/L		480	480	470	460	500	470	520
Acidity83	mg/L			19.1	8.4	7.7	18.1	11.9	2.2
N-D	mg/L								
DOC	mg/L		0.96	1.1	1	0.96	1.2	0.83	0.99
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		590	580	580	560	610	580	640
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	7.9	7.6	7.2	7.2	7.6	7.7	8.8
F-D	mg/L		0.076	0.075	0.051	0.054	0.070	0.060	0.083
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.018	0.015	0.014	0.013	0.013	0.014	0.020
P-D	mg/L								
Al-D	mg/L		0.0011	<0.0010	<0.0010	0.0014	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00306	0.00255	0.00226	0.00251	0.00142	0.00506	0.00075
Ba-D	mg/L	10	0.0750	0.0540	0.0594	0.0641	0.0574	0.0469	0.0477
B-D	mg/L	12	0.977	1.01	1.14	1.14	1.10	1.08	1.36
Be-D	mg/L	0.053	<0.000020	<0.000020	<0.000020	<0.000020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		217	220	263	266	237	232	198
Cr-D	mg/L	0.01	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.000010	<0.000010	<0.000010	<0.000010	<0.00040	<0.00040	<0.00040
Cu-D	mg/L		0.00044	<0.00010	0.00018	0.00021	0.00083	<0.00040	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		7.24	6.64	7.9	8.56	7.33	7.89	4.99
Hard-D	mg/L		628	646	767	780	691	688	579
Pb-D	mg/L		0.000016	<0.000010	<0.000010	<0.000010	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		20.9	23.3	26.9	28.1	23.8	26.6	20.2
Mn-D	mg/L		0.753	0.743	0.967	0.993	0.949	0.948	0.776
Hg-D	mg/L	0.001							
Na-D	mg/L		328	341	374	386	379	400	473
Mo-D	mg/L	10	0.00036	0.00018	0.00027	0.00027	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		0.000099	<0.000040	<0.000040	<0.000040	<0.0020	<0.0020	<0.0020
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		5.33	5.17	6.09	6.28	5.98	5.70	5.82
S-D	mg/L		301	310	382	389	346	361	336
Sb-D	mg/L	0.2	<0.000040	<0.000040	<0.000040	<0.000040	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.02	<0.000080	<0.000080	<0.000080	<0.000080	<0.00020	<0.00020	<0.00020
Si-D	mg/L		3.76	3.57	3.87	4	4.35	4.00	4.91
Sr-D	mg/L		2.09	2.10	2.36	2.55	2.28	2.28	2.07
Ti-D	mg/L	0.003	<0.0000040	<0.0000040	<0.0000040	<0.0000040	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.010	<0.010
U-D	mg/L	3	0.0000400	0.0000481	0.000044	0.00004	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.010	<0.010	<0.010
Zn-D	mg/L		0.00170	0.00073	0.00158	0.00101	<0.010	<0.010	<0.010
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L								
NH3-CSR	mg/L		18.40	18.40	18.40	18.40	18.4	18.40	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		QU1013D	QU1013D	QU1013D	QU1013D	QU1013D	QU1013D	QU1013D
	Top Elev.		270.68	270.68	270.68	270.68	270.68	270.68	270.68
	m	1280	55.8	57.224	54.05	54.05	42.49	41.918	29.58
Date	Duplicate Sample		R	M	M	R	M	M	M
Parameter	Units		20-Aug-25	22-Sep-25	23-Oct-25	23-Oct-25	19-Nov-25	8-Jan-26	17-Feb-26
SO4-D	mg/L	1280	870	900	900	880	520	630	670
H2SEquiv	mg/L	0.02	0.0372	0.0372	0.0351	0.0255	0.0553	0.159	0.0319
Cond-F	uS/cm		2544	2163	3801	3801	390.3	532.5	2000.7
pH-F	pH Units		6.67	6.62	6.76	6.76	6.88	7.19	6.44
Temp-F	C		8.8	8.9	8.8	8.8	7.8	7.4	7.594
DO-F	mg/L		3.43	2.56	1.02	1.02	0.89	0.21	-0.3
ORP-F	mV		27.9	-69.7	-51.6	-51.6	-163.5	-116.4	
Turb	NTU		40	35	11	16	22	9.6	
Alk-T	mg/L		520	520	530	530	580	590	520
Acidity83	mg/L		1.9	3.9	<1.0	<1.0	<1.0	19.4	13.3
N-D	mg/L								
DOC	mg/L		1.0	0.67	0.8	0.8	0.92	0.79	0.94
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		640	630	650	650	700	720	630
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	8.8	8.6	9.5	9.5	36	23	8.1
F-D	mg/L		0.088	0.055	0.081	0.091	0.16	0.14	0.067
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.021	0.015	0.019	0.021	0.08	0.051	0.017
P-D	mg/L								
Al-D	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00091	0.00183	0.0005	0.00053	0.00058	<0.00020	0.00222
Ba-D	mg/L	10	0.0442	0.0494	0.0444	0.0452	0.0278	0.0256	0.0331
B-D	mg/L	12	1.31	1.12	1.14	1.13	1.32	1.28	1.02
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		192	220	210	210	108	84.1	159
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-D	mg/L		<0.00040	<0.00040	0.00067	<0.00040	<0.00040	<0.00040	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		4.71	6.24	4.99	5	1.92	0.829	4.68
Hard-D	mg/L		557	636	603	602	310	235	463
Pb-D	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160	0.160	0.160	0.110	0.160
Mg-D	mg/L		18.9	20.7	19.3	19	9.97	6.07	16
Mn-D	mg/L		0.724	0.867	0.784	0.772	0.333	0.184	0.65
Hg-D	mg/L	0.001							
Na-D	mg/L		441	408	454	454	446	435	338
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		5.43	5.92	5.93	5.81	4.58	4.24	4.92
S-D	mg/L		313	348	372	373	209	227	237
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.02	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L		4.61	4.77	5.3	5.19	4.61	4.82	3.88
Sr-D	mg/L		2.02	2.08	2.01	1.98	1.03	0.948	1.55
Ti-D	mg/L	0.003	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
U-D	mg/L	3	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.033
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	1.650	2.400
N-NH3	mg/L								
NH3-CSR	mg/L		18.40	18.40	18.40	18.40	18.40	18.50	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		QU1101	QU1410	QU1410	QU1410	QU1410	QU1410	QU1410
	Top Elev.		316.368	240.1	240.1	240.1	240.1	240.1	240.1
	m	1280	26.583						
	Duplicate Sample		M	M	M	M	M	M	M
Date			18-Mar-26	17-Apr-25	22-Apr-25	20-May-25	11-Jun-25	10-Jul-25	7-Aug-25
Parameter	Units								
SO4-D	mg/L	1280	1300	860	930	780	900	900	1000
H2SEquiv	mg/L	0.02	0.0181		0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		2146.7	1752.2		1676.7	1965.7	1903	2060
pH-F	pH Units		6.82	6.63		6.81	6.75	6.71	6.87
Temp-F	C		7.976	10.808		8.712	8.79	8.214	13.3
DO-F	mg/L		-0.1	3.03		3.42	0.31	1.28	
ORP-F	mV		-138.1	186.3		113.4	71	134.3	
Turb	NTU				7.8			5.0	20
Alk-T	mg/L		120	190	210	210	230	220	230
Acidity83	mg/L		53.4	11.0	14.2	2	12.7	2.9	10.1
N-D	mg/L								
DOC	mg/L		2.4	0.79	0.95	0.77	0.69	0.78	0.81
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		150	240	260	250	280	270	280
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	3.4	1.6	1.8	1.4	1.6	2.1	1.3
F-D	mg/L		0.52	0.15	0.15	0.15	0.14	0.13	0.14
Flu-CSR	mg/L		3.00	3.000	3.000	3.000	3.000	3.000	3.000
Br-D	mg/L		0.014	0.010	<0.010	<0.010	<0.010	0.012	0.012
P-D	mg/L								
Al-D	mg/L		<0.0060	0.0015	<0.0060	<0.0060	<0.0060	<0.0060	0.0034
Ag-D	mg/L		<0.000040	<0.000010	<0.000040	<0.000040	<0.000040	<0.000040	<0.000010
Ag-CSR	mg/L		0.0150	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500
As-D	mg/L	0.05	0.134	0.0296	0.0368	0.0304	0.0457	0.0463	0.0494
Ba-D	mg/L	10	0.0121	0.0216	0.0203	0.022	0.0194	0.0192	0.0184
B-D	mg/L	12	1.42	0.490	0.56	0.52	0.60	0.64	0.720
Be-D	mg/L	0.053	<0.00020	<0.000020	<0.00020	<0.00020	<0.00020	<0.00020	<0.000020
Bi-D	mg/L		<0.0020	<0.000010	<0.0020	<0.0020	<0.0020	<0.0020	<0.000010
Cd-D	mg/L		<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010
Cd-CSR	mg/L		0.000600	0.0006000	0.0006000	0.0006000	0.0006000	0.0006000	0.0006000
Ca-D	mg/L		324	308	326	311	380	364	386
Cr-D	mg/L	0.01	<0.0020	<0.00020	<0.0020	<0.0020	<0.0020	<0.0020	0.00024
Co-D	mg/L	0.009	<0.00040	0.000640	0.00055	0.00053	0.00046	<0.00040	0.000316
Cu-D	mg/L		0.00064	0.00084	<0.00040	<0.00040	<0.00040	<0.00040	0.00010
Cu-CSR	mg/L		0.0900	0.09000	0.09000	0.09000	0.09000	0.09000	0.09000
Fe-D	mg/L		105	0.857	0.974	0.915	1.28	1.29	1.39
Hard-D	mg/L		986	1020	1090	1040	1240	1190	1250
Pb-D	mg/L		<0.00040	0.000018	<0.00040	<0.00040	<0.00040	<0.00040	0.000091
Pb-CSR	mg/L		0.160	0.1600	0.1600	0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L		43.2	59.7	66.6	62.9	71.5	69.2	70.0
Mn-D	mg/L		1.52	0.693	0.821	0.773	0.935	0.990	1.04
Hg-D	mg/L	0.001							
Na-D	mg/L		139	16.0	17.0	16.8	17.6	16.5	16.3
Mo-D	mg/L	10	<0.0020	0.00051	<0.0020	<0.0020	<0.0020	<0.0020	0.00068
Ni-D	mg/L		<0.0020	0.00235	0.0021	<0.0020	<0.0020	<0.0020	0.00129
Ni-CSR	mg/L		1.50	1.500	1.500	1.500	1.500	1.500	1.500
K-D	mg/L		5.56	3.61	4.04	3.74	4.41	4.57	4.57
S-D	mg/L			429	290	320	307	363	369
Sb-D	mg/L	0.2	<0.0010	0.000075	<0.0010	<0.0010	<0.0010	<0.0010	<0.000040
Se-D	mg/L	0.02	<0.00020	<0.000080	<0.00020	<0.00020	<0.00020	<0.00020	<0.000080
Si-D	mg/L		5.69	2.64	2.68	2.55	2.87	2.79	2.67
Sr-D	mg/L		1.75	1.95	2.16	2.04	2.41	2.56	2.74
Ti-D	mg/L	0.003	<0.000020	0.0000180	<0.000020	<0.000020	<0.000020	<0.000020	0.0000068
Ti-D	mg/L	1.00	<0.010	<0.0010	<0.010	<0.010	<0.010	<0.010	<0.0010
U-D	mg/L	3	<0.00020	0.000428	0.00048	0.0004	0.00053	0.00045	0.000505
V-D	mg/L		<0.010	<0.00040	<0.010	<0.010	<0.010	<0.010	<0.00040
Zn-D	mg/L		<0.010	0.0172	0.017	<0.010	0.043	<0.010	0.00953
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L			0.067					
NH3-CSR	mg/L		18.40	18.40		18.40	18.40	18.40	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Wlevel	Well ID Top Elev. m	1280	QU1410 240.1 M 28-Oct-25	QU1410 240.1 M 25-Nov-25	QU1410 240.1 M 30-Dec-25	QU1410 240.1 M 13-Jan-26	QU1410 240.1 M 10-Feb-26	QU1410 240.1 M 3-Mar-26
Date Parameter	Units							
SO4-D	mg/L	1280	880	710	650	630	700	620
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		1945	341.2	523.3	1875.9	1619	1506
pH-F	pH Units		6.7	6.77	6.75	6.63	6.84	6.68
Temp-F	C		8.4	8	8	8.687	8	8.169
DO-F	mg/L			1.01	0.48	2.12		4.44
ORP-F	mV			-25.5	-1.8	-11.9		113.8
Turb	NTU		7.4	16	8.3	5.2	4.9	
Alk-T	mg/L		230	180	180	170	170	170
Acidity83	mg/L		5.1	5.9	2.2	14	2.5	8.1
N-D	mg/L							
DOC	mg/L		0.62	0.82	0.72	<0.50	0.58	0.86
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		280	220	220	210	210	200
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1.7	<1.0	<1.0	<1.0	1.4	1.3
F-D	mg/L		0.13	0.15	0.13	0.15	0.12	0.14
Flu-CSR	mg/L		3.000	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	0.014
P-D	mg/L							
Al-D	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.01500	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0509	0.0327	0.0346	0.0315	0.0284	0.0306
Ba-D	mg/L	10	0.0177	0.019	0.0195	0.0206	0.0188	0.019
B-D	mg/L	12	0.62	0.54	0.51	0.59	0.48	0.46
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-CSR	mg/L		0.0006000	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		405	319	328	313	282	278
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00040	<0.00040	<0.00040	<0.00040	0.00052	0.0005
Cu-D	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-CSR	mg/L		0.09000	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		1.41	0.974	0.951	0.768	0.724	0.774
Hard-D	mg/L		1270	994	999	966	876	865
Pb-D	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.1600	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L		64	47.8	43.9	44.8	41.6	41.6
Mn-D	mg/L		1.06	0.702	0.691	0.615	0.553	0.616
Hg-D	mg/L	0.001						
Na-D	mg/L		15	12.9	11.2	11.9	10.8	10.6
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	0.0024	0.0022
Ni-CSR	mg/L		1.500	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		4.43	3.67	3.59	3.52	3.04	3.27
S-D	mg/L		368	281	277	279	242	243
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.02	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L		2.86	2.69	2.75	3.06	2.69	2.63
Sr-D	mg/L		2.44	1.96	1.82	1.75	1.47	1.56
Tl-D	mg/L	0.003	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
U-D	mg/L	3	0.00055	0.0004	0.00049	0.00037	0.00033	0.00032
V-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L		<0.010	0.01	<0.010	<0.010	<0.010	<0.010
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L							
NH3-CSR	mg/L		18.4	18.40	18.40	18.40	18.40	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells										
Wlevel	Well ID Top Elev. m	1280	242MW 290 22.37 M	242MW 290 22.73 M	242MW 290 22.73 R	242MW 290 M	7SPS M	7SPS M	7SPS M	7SPS M
Date	Duplicate Sample		28-May-25	13-Aug-25	13-Aug-25	6-Nov-25	3-Apr-25	5-May-25	3-Jun-25	2-Jul-25
Parameter	Units									
SO4-D	mg/L	1280	27	25	<1.0	23	130	210	190	230
H2SEquiv	mg/L	0.02	0.000957	0.00510	0.00914	0.0149			0.000957	
Cond-F	uS/cm		243.1	262.3	262.3	265.8	417	650	631	733
pH-F	pH Units		6.45	6.57	6.57	6.71	7.32	7.18	7.48	7.66
Temp-F	C		8.827	10.5	10.5	8.063	9.7	19.2	19.2	19.2
DO-F	mg/L		-0.39	0.42	0.42	-0.34				
ORP-F	mV		-63.1	44.5	44.5	-122.8				
Turb	NTU		74	79	85				9.6	
Alk-T	mg/L		94	96	95	100	77	130	140	120
Acidity83	mg/L		<1.0	3.4	3.4	2.2	1.7	2.6	<1.0	<1.0
N-D	mg/L							0.122		
DOC	mg/L		<0.50	0.93	0.58	0.78	2.3	3.2	3.8	
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		110	120	120	120	94	160	170	150
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	48	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L		0.057	0.074	<0.050	0.051	<0.050	<0.050	<0.050	
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	0.027	0.068	0.069	
P-D	mg/L							0.0084	0.010	
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	0.00909	0.0054	0.0069	0.0057
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.0000050	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0965	0.117	0.117	0.12	0.000202	0.00035	0.00025	0.00031
Ba-D	mg/L	10	0.0836	0.0792	0.0774	0.0786	0.0106	0.0120	0.0153	0.0208
B-D	mg/L	12	0.084	0.056	0.056	0.06	0.042	0.080	0.067	0.081
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	0.0000112	<0.000010	0.000011	<0.000010
Cd-CSR	mg/L		0.000500	0.000500	0.000500	0.000500	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		39.8	38.4	39	39.6	55.2	99.7	91.6	93.3
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00036	0.0003	0.0003	0.00025	0.00116	0.00103	0.00039	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	0.000979	0.00070	0.00090	0.00092
Cu-CSR	mg/L		0.0500	0.0500	0.0500	0.0500	0.0800	0.0900	0.0900	0.0900
Fe-D	mg/L		10.4	11.3	11.4	12.6	0.180	0.193	0.0558	0.105
Hard-D	mg/L		112	109	110	112	182	346	314	312
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.0000050	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600	0.0600	0.0600	0.160	0.160	0.160
Mg-D	mg/L		3.13	3.14	3.13	3.28	10.7	23.5	20.6	19.1
Mn-D	mg/L		0.369	0.393	0.397	0.389	0.103	0.115	0.0366	0.0142
Hg-D	mg/L	0.001								
Na-D	mg/L		2.08	2.32	2.29	2.26	3.50	10.2	9.62	9.36
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	0.000080	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	0.00279	0.0026	0.0019	0.0016
Ni-CSR	mg/L		0.650	0.650	0.650	0.650	1.50	1.50	1.50	1.50
K-D	mg/L		0.397	0.375	0.375	0.444	0.503	0.700	0.709	0.851
S-D	mg/L		8.4	8.1	8.5	7.4	39.6	81.3	67.9	77.9
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	0.000038	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	0.000056	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.36	3.43	3.48	3.45	3.07	5.22	4.64	4.22
Sr-D	mg/L		0.0625	0.0623	0.0607	0.0662	0.205	0.367	0.334	0.359
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	0.0000029	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	0.000106	0.00032	0.00030	0.00029
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.00020	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	0.00569	<0.0050	0.0119	<0.0050
Zn-CSR	mg/L		0.900	0.900	0.900	0.900	0.900	2.400	2.400	2.400
N-NH3	mg/L									
NH3-CSR	mg/L		18.40	18.40	18.40	18.40	18.50	18.50	18.50	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells									
Wlevel	Well ID		7SPS	7SPS	7SPS	7SPS	7SPS	7SPS	7SPS
	Top Elev.	1280							
Date	Duplicate Sample		M	M	M	M	M	M	M
Parameter	Units		6-Aug-25	2-Oct-25	4-Nov-25	2-Dec-25	5-Jan-26	3-Feb-26	3-Mar-26
SO4-D	mg/L	1280	310	310	270	230	130	120	170
H2SEquiv	mg/L	0.02							
Cond-F	uS/cm		858	779		580	500.1	370	527
pH-F	pH Units		7.7	3.3		6.61	6.63	7.16	6.81
Temp-F	C		24	12.6		6.7	4.23	8.4	7.7
DO-F	mg/L						11.91		
ORP-F	mV						199		
Turb	NTU								
Alk-T	mg/L		140	<1.0	26	67	94	60	69
Acidity83	mg/L		2.4	112	3.5	10.3	1.1	2.7	2.3
N-D	mg/L								
DOC	mg/L			2.1					1.8
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		170	<1.0	32	82	110	73	85
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500		<1.0	<1.0				<1.0
F-D	mg/L			<0.050	<0.050				<0.050
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.017	0.024				0.026
P-D	mg/L								
Al-D	mg/L		<0.0030	3.12	0.0241	0.0090	0.0061	0.01	0.008
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00025	0.00259	0.00029	0.00033	0.00028	0.00029	0.00035
Ba-D	mg/L	10	0.0191	0.0259	0.016	0.0133	0.0131	0.0108	0.0093
B-D	mg/L	12	0.082	0.124	0.085	0.068	0.059	0.054	<0.050
Be-D	mg/L	0.053	<0.00010	0.00033	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	0.000197	0.000074	0.000043	0.000019	0.000017	0.00002
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		131	76.2	91.2	82.5	67.1	50.4	64.5
Cr-D	mg/L	0.01	<0.0010	0.0066	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00036	0.0283	0.0115	0.00637	0.00335	0.00306	0.00301
Cu-D	mg/L		0.00046	0.0801	0.00812	0.00215	0.00147	0.0018	0.00126
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0700	0.0900
Fe-D	mg/L		0.202	32.9	6.09	3.37	1.22	1.12	1.55
Hard-D	mg/L		446	261	318	283	229	174	224
Pb-D	mg/L		<0.00020	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.110	0.160	0.110	0.110	0.0600	0.110
Mg-D	mg/L		28.7	17.3	21.9	18.8	14.9	11.7	15.2
Mn-D	mg/L		0.0914	0.916	0.34	0.229	0.141	0.121	0.15
Hg-D	mg/L	0.001							
Na-D	mg/L		15.4	3.42	4.56	5.13	4.07	3.23	4.51
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0020	0.0462	0.0206	0.0121	0.0067	0.0062	0.0064
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.10	1.50
K-D	mg/L		1.30	1.21	0.837	0.686	0.657	0.598	0.545
S-D	mg/L		112	120	99.4	76.8	55.1	37.6	56.1
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		5.59	6.17	7.13	5.39	5.02	4.72	5.24
Sr-D	mg/L		0.489	0.249	0.31	0.283	0.234	0.158	0.211
Tl-D	mg/L	0.003	<0.000010	0.000018	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.00037	0.00063	<0.00010	0.00010	0.0001	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	0.0735	0.0359	0.0230	0.0125	0.0114	0.0117
Zn-CSR	mg/L		2.400	1.650	2.400	1.650	1.650	0.900	1.650
N-NH3	mg/L								
NH3-CSR	mg/L		11.3	18.4		18.40	18.40	18.50	18.40

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.		1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5
Wlevel	m	1280						
Date	Duplicate Sample		M	M	M	M	M	M
Parameter	Units		3-Apr-25	5-May-25	3-Jun-25	7-Jul-25	11-Aug-25	3-Sep-25
SO4-D	mg/L	1280	120	84	110	140	250	290
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957			
Cond-F	uS/cm		484	446.7	522	596	764	790
pH-F	pH Units		8.39	7.78	7.75	7.64	7.65	7.7
Temp-F	C		8.2	10.5	10.2	9.9	13.8	9.1
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		0.20	1.7	1.1	1.3	2	1.7
Alk-T	mg/L		79	150	150	140	120	120
Acidity83	mg/L		1.2	<1.0	<1.0	<1.0	1.5	<1.0
N-D	mg/L		0.155	0.330		0.324	0.164	0.138
DOC	mg/L		0.73	1.3	0.82	1.0	1.1	0.85
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		96	180	180	170	150	140
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	1.0	<1.0	<1.0	1.2	1.1
F-D	mg/L		0.24	0.39	0.38	0.37	0.29	0.28
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	0.017
P-D	mg/L		0.0055	0.018	0.0057	0.0064	<0.0030	<0.0030
Al-D	mg/L		0.00875	0.0049	0.0055	0.0061	0.0053	0.0084
Ag-D	mg/L		<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0492	0.0581	0.0409	0.0141	0.00249	0.00085
Ba-D	mg/L	10	0.0795	0.132	0.120	0.0973	0.077	0.0658
B-D	mg/L	12	0.279	0.463	0.477	0.417	0.442	0.406
Be-D	mg/L	0.053	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L		<0.0000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		60.7	58.5	65.4	73.0	100	108
Cr-D	mg/L	0.01	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00171	0.00046	0.00074	0.00106	0.00204	0.00263
Cu-D	mg/L		0.000274	0.00039	0.00026	0.00037	0.00047	0.00048
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		0.0256	0.0344	0.0650	0.0595	0.0268	0.0229
Hard-D	mg/L		204	204	227	250	353	385
Pb-D	mg/L		0.0000107	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.110	0.110	0.110	0.110	0.160	0.160
Mg-D	mg/L		12.8	13.9	15.3	16.4	24.9	28.0
Mn-D	mg/L		0.0610	0.0239	0.0432	0.0591	0.103	0.120
Hg-D	mg/L	0.001						
Na-D	mg/L		11.7	19.7	19.0	16.2	15.3	14.4
Mo-D	mg/L	10	0.000448	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.00392	0.0015	0.0020	0.0027	0.0046	0.0056
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		1.62	1.98	2.03	1.81	1.87	1.86
S-D	mg/L		41.4	34.4	43.1	51.2	83.6	102
Sb-D	mg/L	0.2	0.000146	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.000145	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.28	4.31	4.12	3.70	3.75	3.43
Sr-D	mg/L		0.448	0.555	0.610	0.666	0.73	0.808
Tl-D	mg/L	0.003	0.0000111	<0.000010	<0.000010	0.000014	0.000018	0.000022
Ti-D	mg/L	1.00	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.0000391	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.00020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0263	<0.0050	0.0333	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		1.650	1.650	1.650	1.650	2.400	2.400
N-NH3	mg/L		0.024	<0.015				
NH3-CSR	mg/L		3.700	11.30	11.30	11.30	11.30	11.3

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.		7SA5	7SA5	7SA5	7SA5	7SA5	7SA5
Wlevel	m	1280						
Date	Duplicate Sample		M	M	M	M	M	M
Parameter	Units		3-Apr-25	5-May-25	3-Jun-25	7-Jul-25	11-Aug-25	3-Sep-25
SO4-D	mg/L	1280	60	55	37	46	55	68
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957			
Cond-F	uS/cm		437	362.4	397		424	433
pH-F	pH Units		7.65	7.74	7.83		7.47	7.51
Temp-F	C		8.5	10.8	12.1		14.2	9.6
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		2.6	1.1	1.6	3.5	5.7	2.7
Alk-T	mg/L		160	160	170	160	160	150
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
N-D	mg/L		0.198	0.272		0.309	0.313	0.245
DOC	mg/L		0.78	1.1	1.3	1.3	1.2	0.85
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		200	200	200	200	190	180
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1.8	1.2	<1.0	1.1	<1.0	<1.0
F-D	mg/L		0.48	0.40	0.39	0.40	0.37	0.44
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
P-D	mg/L		0.0096	0.030	0.019	0.0054	<0.0030	<0.0030
Al-D	mg/L		0.00061	<0.0030	<0.0030	<0.0030	0.0037	0.0030
Ag-D	mg/L		<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.104	0.137	0.137	0.0322	0.00158	0.00088
Ba-D	mg/L	10	0.195	0.289	0.356	0.291	0.312	0.209
B-D	mg/L	12	0.509	0.629	0.492	0.476	0.52	0.538
Be-D	mg/L	0.053	0.000011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.0000050	<0.000010	<0.000010	<0.000010	0.000011	0.000015
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		47.2	49.7	47.9	45.0	49.7	47.6
Cr-D	mg/L	0.01	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.0000812	<0.00020	<0.00020	0.00122	0.00291	0.00464
Cu-D	mg/L		0.000171	0.00030	<0.00020	0.00059	0.00117	0.00095
Cu-CSR	mg/L		0.0700	0.0700	0.0700	0.0700	0.0700	0.0700
Fe-D	mg/L		0.0288	0.0103	0.0176	0.0340	0.0426	0.0624
Hard-D	mg/L		162	168	158	151	168	165
Pb-D	mg/L		<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L		10.8	10.7	9.22	9.38	10.6	11.3
Mn-D	mg/L		0.0202	0.0164	0.0244	0.0549	0.0859	0.101
Hg-D	mg/L	0.001						
Na-D	mg/L		22.1	22.2	20.3	20.4	21.6	23.0
Mo-D	mg/L	10	0.000663	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.000643	<0.0010	<0.0010	0.0024	0.0052	0.0076
Ni-CSR	mg/L		1.10	1.10	1.10	1.10	1.10	1.10
K-D	mg/L		2.13	2.21	2.17	2.04	2.1	2.02
S-D	mg/L		19.8	17.8	13.3	15.2	18.8	24.9
Sb-D	mg/L	0.2	0.000030	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.000040	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.34	4.80	4.79	4.20	4.48	4.10
Sr-D	mg/L		0.569	0.532	0.531	0.552	0.533	0.541
Tl-D	mg/L	0.003	0.0000040	<0.000010	<0.000010	<0.000010	<0.000010	0.000010
Ti-D	mg/L	1.00	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.0000261	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.00020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.00423	<0.0050	<0.0050	<0.0050	0.0069	0.0100
Zn-CSR	mg/L		0.900	0.900	0.900	0.900	0.900	0.900
N-NH3	mg/L		0.037	0.019				
NH3-CSR	mg/L		11.30	11.30	11.30		18.50	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.		2M7S	2M7S	2M7S	2M7S	2M7S	2M7S
Wlevel	m	1280						
Date	Duplicate Sample		M	M	M	M	M	M
Parameter	Units		3-Apr-25	5-May-25	3-Jun-25	7-Jul-25	11-Aug-25	3-Sep-25
SO4-D	mg/L	1280	130	110	120	140	140	160
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957			
Cond-F	uS/cm		408	394	386	451	437	488
pH-F	pH Units		7.33	7.64	7.59	7.52	7.73	7.77
Temp-F	C		7.3	10.11	11.7	9.3	13.7	10.6
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		3.2	2.7	2.5	1.1	1.1	1.0
Alk-T	mg/L		55	47	55	57	60	61
Acidity83	mg/L		1.0	<1.0	<1.0	1.6	2.6	1.1
N-D	mg/L		0.116	0.199		0.194	0.131	0.122
DOC	mg/L		1.2	1.5	1.4	1.3	1.4	1.1
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		67	58	67	69	73	74
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L		0.056	<0.050	0.053	0.057	0.061	0.063
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
P-D	mg/L		<0.0030	0.0037	<0.0030	<0.0030	<0.0030	<0.0030
Al-D	mg/L		0.00483	0.0040	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.0000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.000711	0.00091	0.00076	0.00169	0.00028	0.00030
Ba-D	mg/L	10	0.0176	0.0150	0.0165	0.0173	0.0173	0.0171
B-D	mg/L	12	0.098	0.092	0.104	0.115	0.129	0.129
Be-D	mg/L	0.053	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0000050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		0.0000060	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		56.2	51.4	56.3	59.3	65.5	63.5
Cr-D	mg/L	0.01	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.000612	0.00073	0.00036	0.00022	<0.00020	<0.00020
Cu-D	mg/L		0.000646	0.00100	0.00050	0.00055	0.00048	0.00040
Cu-CSR	mg/L		0.0800	0.0700	0.0800	0.0800	0.0900	0.0900
Fe-D	mg/L		0.0494	0.0122	0.0324	0.0132	0.0114	0.0097
Hard-D	mg/L		181	169	183	191	213	207
Pb-D	mg/L		<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600	0.0600	0.110	0.110
Mg-D	mg/L		9.96	9.96	10.2	10.4	12	11.9
Mn-D	mg/L		0.0393	0.0362	0.0211	0.0153	0.0102	0.0094
Hg-D	mg/L	0.001						
Na-D	mg/L		3.09	3.31	3.39	3.25	3.7	3.73
Mo-D	mg/L	10	0.000121	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.00310	0.0032	0.0026	0.0024	0.002	0.0021
Ni-CSR	mg/L		1.50	1.10	1.50	1.50	1.50	1.50
K-D	mg/L		0.680	0.773	0.724	0.710	0.752	0.772
S-D	mg/L		44.3	45.3	43.7	45.7	50.5	52.6
Sb-D	mg/L	0.2	0.000173	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.000098	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		2.67	2.76	2.68	2.73	2.82	2.75
Sr-D	mg/L		0.265	0.228	0.247	0.259	0.273	0.296
Tl-D	mg/L	0.003	0.0000278	0.000024	0.000035	0.000042	0.000048	0.000047
Ti-D	mg/L	1.00	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.0000459	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.00020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0159	0.0100	<0.0050	<0.0050	0.0062	<0.0050
Zn-CSR	mg/L		0.900	0.900	0.900	0.900	1.650	1.650
N-NH3	mg/L		<0.015	<0.015				
NH3-CSR	mg/L		18.50	11.30	11.30	11.30	11.30	11.30

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.		3M7S	3M7S	3M7S	3M7S	3M7S	3M7S
Wlevel	m	1280						
Date	Duplicate Sample		M	M	M	M	M	M
Parameter	Units		3-Apr-25	5-May-25	3-Jun-25	7-Jul-25	11-Aug-25	3-Sep-25
SO4-D	mg/L	1280	860	870	840	890	890	930
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957			
Cond-F	uS/cm		1710	1452	1702	1936	1749	1873
pH-F	pH Units		8.24	7.37	7.06	7.13	7.28	7.4
Temp-F	C		7.7	10.8	12	9.9	13.2	8.7
DO-F	mg/L							
ORP-F	mV							
Turb	NTU		1.4	2.6	2.4	0.91	2.6	0.65
Alk-T	mg/L		110	110	100	95	100	98
Acidity83	mg/L		3.3	4.6	3.0	4.4	4.2	1.9
N-D	mg/L		0.090	0.173		0.228	0.127	0.113
DOC	mg/L		<0.50	24	<0.50	0.60	0.62	0.52
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		130	130	130	120	120	120
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1.9	<1.0	1.1	1.9	1.3	1.4
F-D	mg/L		0.27	0.28	0.27	0.29	0.26	0.28
Flu-CSR	mg/L		3.00	3.000	3.00	3.00	3.000	3.000
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
P-D	mg/L		<0.0030	0.0075	<0.0030	<0.0030	<0.0030	<0.0030
Al-D	mg/L		0.0011	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000010	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.01500	0.0150	0.0150	0.01500	0.01500
As-D	mg/L	0.05	0.000437	0.00052	0.00023	<0.00020	<0.00020	<0.00020
Ba-D	mg/L	10	0.0232	0.0226	0.0208	0.0212	0.0193	0.0202
B-D	mg/L	12	0.782	0.95	0.94	0.92	1.09	1.14
Be-D	mg/L	0.053	<0.000020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.000010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		0.000016	<0.000020	<0.000020	0.000023	0.000023	0.000020
Cd-CSR	mg/L		0.000600	0.0006000	0.000600	0.000600	0.0006000	0.0006000
Ca-D	mg/L		259	269	269	270	288	288
Cr-D	mg/L	0.01	<0.00020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	0.00504	0.00397	0.00533	0.00505	0.00443	0.00524
Cu-D	mg/L		0.00043	0.00087	<0.00040	<0.00040	<0.00040	<0.00040
Cu-CSR	mg/L		0.0900	0.09000	0.0900	0.0900	0.09000	0.09000
Fe-D	mg/L		0.0353	0.016	0.030	0.028	0.033	0.017
Hard-D	mg/L		931	1010	997	995	1080	1080
Pb-D	mg/L		<0.000010	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.1600	0.160	0.160	0.1600	0.1600
Mg-D	mg/L		68.9	81.2	78.8	77.5	87.2	87.0
Mn-D	mg/L		0.207	0.206	0.216	0.213	0.167	0.200
Hg-D	mg/L	0.001						
Na-D	mg/L		24.7	29.3	29.0	27.2	28.7	29.2
Mo-D	mg/L	10	0.00023	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		0.0153	0.0118	0.0158	0.0156	0.0153	0.0162
Ni-CSR	mg/L		1.50	1.500	1.50	1.50	1.500	1.500
K-D	mg/L		4.38	4.51	4.40	4.76	4.23	4.46
S-D	mg/L		312	343	330	340	343	359
Sb-D	mg/L	0.2	<0.000040	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.02	0.000088	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L		2.74	2.82	2.69	2.74	2.64	2.63
Sr-D	mg/L		2.82	3.33	2.77	3.32	3.2	3.46
Tl-D	mg/L	0.003	0.0000151	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1.00	<0.0010	<0.010	<0.010	<0.010	<0.010	<0.010
U-D	mg/L	3	0.000110	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.00040	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L		0.0212	<0.010	<0.010	0.012	<0.010	<0.010
Zn-CSR	mg/L		2.400	2.400	2.400	2.400	2.400	2.400
N-NH3	mg/L		0.049	0.060				
NH3-CSR	mg/L		3.700	18.50	18.50	18.50	18.50	18.5

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells											
Wlevel	Well ID Top Elev. m	1280	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398	QU0513W 289.398
Date	Duplicate Sample		M	M	M	R	M	M	M	M	M
Parameter	Units		14-May-25	10-Jun-25	8-Jul-25	8-Jul-25	12-Aug-25	5-Nov-25	30-Dec-25	3-Feb-26	24-Mar-26
SO4-D	mg/L	1280	180	170	170	170	170	190	180	190	180
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm		586.5	746.8	869.6	869.6	868	934	385.3	978.8	914
pH-F	pH Units		7.33	7.13	7.11	7.11	7.24	7.14	7.17	7.07	7.06
Temp-F	C		9.2	11.21	11.757	11.757	25.7	8.259	7.7	7.802	7.6
DO-F	mg/L		7.9	-0.36	-0.47	-0.47	0.42	-0.38	0.13	0.06	0.72
ORP-F	mV		115.6	-22.5	-90.1	-90.1	-74.2	-120.9	-59.5	76.5	-4.9
Turb	NTU		2.3		17	17	53		22	29	29
Alk-T	mg/L		140	230	270	280	270	340	350	380	390
Acidity83	mg/L		1.4	2.3	<1.0	<1.0	2.4	<1.0	<1.0	2.8	7.1
N-D	mg/L		0.242								
DOC	mg/L			1.3	1.5	1.3	2.7	1.5	1.7	1.6	1.3
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		170	270	330	340	330	410	430	460	470
Carb	mg/L		<1.0	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	2.1	7.6	12	11	15	20	23	24	25
F-D	mg/L		0.21	0.12	<0.050	0.11	0.13	0.12	0.097	0.12	0.12
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	0.028	0.042	0.043	0.047	0.062	0.059	0.066	0.064
P-D	mg/L		0.0061								
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0046
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00731	0.00294	0.00346	0.00339	0.00469	0.0039	0.00374	0.0035	0.00354
Ba-D	mg/L	10	0.0537	0.0289	0.0296	0.0295	0.0319	0.0268	0.0263	0.0239	0.0258
B-D	mg/L	12	0.381	0.282	0.287	0.291	0.262	0.349	0.328	0.312	0.353
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		78.9	73.4	83.8	81.9	77.9	85.9	85.7	82.7	83.1
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00040	0.00145	0.00198	0.00200	0.00288	0.00257	0.00276	0.00258	0.00262
Cu-D	mg/L		0.00035	<0.00020	0.00043	0.00041	<0.00020	0.00045	0.00031	0.00052	<0.00020
Cu-CSR	mg/L		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		0.0140	0.246	1.36	1.36	4.44	2.25	1.71	1.91	1.96
Hard-D	mg/L		277	235	267	262	251	272	272	262	262
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
Mg-D	mg/L		19.5	12.7	13.9	13.9	13.8	14	14.2	13.5	13.3
Mn-D	mg/L		0.0252	0.201	0.331	0.330	0.444	0.48	0.51	0.509	0.545
Hg-D	mg/L	0.001									
Na-D	mg/L		18.2	75.7	88.2	88.0	89.4	118	132	137	148
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0022	0.0016	0.0019	0.0019	0.0032	0.0021	0.0021	0.002	0.0019
Ni-CSR	mg/L		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L		1.68	2.19	2.21	2.22	2.03	2.33	2.43	2.28	2.29
S-D	mg/L		61.9	59.1	59.1	60.2	59.3	66.1	65.2	57.9	60.3
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.77	3.42	3.46	3.32	3.28	3.35	3.33	3.26	3.22
Sr-D	mg/L		0.564	0.540	0.641	0.620	0.578	0.663	0.67	0.62	0.712
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650
N-NH3	mg/L										
NH3-CSR	mg/L		18.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50	18.50

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells								
Well ID	Top Elev.		QU1319A	QU1319A	QU1319A	QU1319A	QU1316	QU1316
Wlevel	m	1280	2.67	2.67	0.78	0.78	1.335	0.315
	Duplicate Sample		M	R	M	R	M	M
Date			4-Dec-25	4-Dec-25	24-Mar-26	24-Mar-26	3-Feb-26	17-Mar-26
Parameter	Units							
SO4-D	mg/L	1280	<1.0	<1.0	<1.0	<1.0	120	160
H2SEquiv	mg/L	0.02	0.0638	0.0659	0.0712	0.0744	0.149	0.159
Cond-F	uS/cm		216.9	216.9	350.7	350.7	234.6	759
pH-F	pH Units		7.26	7.26	7.8	7.8	7.44	7.48
Temp-F	C		8.1	8.1	7.854	7.854	8.2	9.585
DO-F	mg/L		0.17	0.17	0.43	0.43	0.11	-0.07
ORP-F	mV		-83.2	-83.2	-138	-138	-164.9	-187
Turb	NTU		17	14	23	22	4.9	
Alk-T	mg/L		210	210	210	210	260	270
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
N-D	mg/L							
DOC	mg/L		<0.50	0.51	0.67	<0.50	1.1	1.2
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		250	250	260	260	320	330
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	4	3.6	4.8	5.1	21	23
F-D	mg/L		0.77	0.78	0.78	0.77	0.68	0.66
Flu-CSR	mg/L		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	0.036	0.031
P-D	mg/L							
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0244	0.0248	0.0241	0.0244	0.316	0.314
Ba-D	mg/L	10	0.245	0.241	0.223	0.223	0.124	0.117
B-D	mg/L	12	0.939	0.95	1.02	0.998	1.09	1.18
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000500	0.000500	0.000500	0.000500	0.000600	0.000600
Ca-D	mg/L		29	29.7	29.5	29.7	58	67.8
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0500	0.0500	0.0500	0.0500	0.0900	0.0900
Fe-D	mg/L		0.249	0.255	0.276	0.277	0.337	0.369
Hard-D	mg/L		106	109	104	104	216	245
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600	0.0600	0.110	0.110
Mg-D	mg/L		8.11	8.39	7.45	7.17	17.2	18.5
Mn-D	mg/L		0.027	0.027	0.0336	0.0333	0.0294	0.0312
Hg-D	mg/L	0.001						
Na-D	mg/L		47.4	48.5	44.6	43.7	79.4	85.8
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		0.650	0.650	0.650	0.650	1.50	1.50
K-D	mg/L		2.7	2.72	2.49	2.45	3.23	3.23
S-D	mg/L		<3.0	<3.0	<3.0	<3.0	40.8	49.4
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	0.00049	0.0003
Si-D	mg/L		6.58	6.73	6.71	6.71	3.95	4.25
Sr-D	mg/L		0.562	0.559	0.594	0.589	1.09	1.32
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		0.900	0.900	0.900	0.900	1.650	1.650
N-NH3	mg/L							
NH3-CSR	mg/L		18.5	18.5	11	11	18.5	18.5

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells										
Wlevel	Well ID Top Elev. m	1280 Duplicate Sample	QU1103	QU1103	QU1103	QU1103	QU1103	QU1103	QU1103	QU1103
			287.66	287.66	287.66	287.66	287.66	287.66	287.66	287.66
Date	Parameter	Units	4-Jun-25	8-Jul-25	7-Aug-25	2-Sep-25	14-Oct-25	25-Nov-25	13-Jan-26	18-Feb-26
Parameter			M	M	M	M	M	M	M	M
SO4-D	mg/L	1280	20	19	21	22	21	20	21	19
H2SEquiv	mg/L	0.02	0.0319	0.0149	0.0266	0.0191	0.00521	0.0223	0.0159	0.0181
Cond-F	uS/cm		702	760.6	796	843	780	804	818	821
pH-F	pH Units		8.19	8.14	8.4	8.27	8	8.03	8.44	8.44
Temp-F	C		12.359	10.6	10.5	14.9	8.7	7	7.80	5.5
DO-F	mg/L		1.31	3.27			1.01			
ORP-F	mV		117.4	85.4			-3.1			
Turb	NTU		20	9.6	13	9.5	12	17	24	19
Alk-T	mg/L		400	400	410	400	410	410	390	380
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
N-D	mg/L									
DOC	mg/L		3.0	2.7	1.6	1.5	1.6	1.6	1	1.5
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		440	420	450	470	470	470	440	430
Carb	mg/L		24	29	23	7.4	15	15	17	17
Cl-D	mg/L	1500	9.9	8.4	9.5	10	10	11	9.3	8.1
F-D	mg/L		2.4	2.3	2.4	2.5	2.8	2.6	2.3	2.3
Flu-CSR	mg/L		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Br-D	mg/L		0.101	0.135	0.141	0.120	0.105	0.094	0.06	0.029
P-D	mg/L									
Al-D	mg/L		0.0159	<0.015	0.0136	<0.015	<0.015	<0.015	0.018	0.035
Ag-D	mg/L		<0.000010	<0.00010	<0.000025	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Ag-CSR	mg/L		0.000500	0.000500	0.000500	0.000500	0.000500	0.000500	0.000500	0.000500
As-D	mg/L	0.05	0.335	0.315	0.325	0.326	0.329	0.328	0.314	0.327
Ba-D	mg/L	10	0.0135	0.0136	0.0147	0.0163	0.017	0.0187	0.0192	0.0163
B-D	mg/L	12	6.46	7.05	7.23	6.78	8.94	8.4	8.17	6.32
Be-D	mg/L	0.053	<0.000020	<0.00050	<0.000050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bi-D	mg/L		<0.000010	<0.0050	<0.000025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cd-D	mg/L		<0.000010	<0.000050	<0.000025	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Cd-CSR	mg/L		0.000100	0.000100	0.000100	0.000100	0.000100	0.000100	0.000100	0.000100
Ca-D	mg/L		3.19	3.25	3.68	3.69	3.52	3.71	3.72	3.09
Cr-D	mg/L	0.01	<0.00020	<0.0050	<0.00050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Co-D	mg/L	0.009	0.000081	<0.0010	0.000072	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L		0.00084	<0.0010	0.00044	<0.0010	<0.0010	<0.0010	<0.0010	0.0019
Cu-CSR	mg/L		0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
Fe-D	mg/L		0.0565	<0.025	0.0587	0.049	0.188	0.105	0.207	0.172
Hard-D	mg/L		10.1	10.3	11.6	11.8	11.2	11.8	11.7	9.76
Pb-D	mg/L		0.000283	<0.0010	0.000045	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Pb-CSR	mg/L		0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
Mg-D	mg/L		0.53	0.53	0.59	0.64	0.58	0.61	0.58	0.49
Mn-D	mg/L		0.0518	0.0481	0.0546	0.0630	0.0599	0.062	0.0571	0.0392
Hg-D	mg/L	0.001								
Na-D	mg/L		187	192	200	225	198	206	197	190
Mo-D	mg/L	10	0.00824	0.0086	0.00928	0.0092	0.0087	0.0078	0.0089	0.0088
Ni-D	mg/L		0.000140	<0.0050	0.00014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ni-CSR	mg/L		0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250
K-D	mg/L		1.06	0.93	0.96	1.00	0.93	0.94	1.03	0.89
S-D	mg/L		6.6	<15	<15	<15	<15	<15	<15	<15
Sb-D	mg/L	0.2	0.000179	<0.0025	0.00018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Se-D	mg/L	0.02	<0.000080	<0.00050	<0.00020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Si-D	mg/L		3.74	3.74	3.74	3.93	4.05	3.83	3.83	3.38
Sr-D	mg/L		0.0534	0.0538	0.0603	0.0564	0.061	0.057	0.0563	0.0431
Tl-D	mg/L	0.003	<0.0000040	<0.000050	<0.000010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ti-D	mg/L	1.00	<0.0010	<0.025	<0.0025	<0.025	<0.025	<0.025	<0.025	<0.025
U-D	mg/L	3	0.000925	0.00092	0.000909	0.00105	0.00078	0.00093	0.00097	0.00095
V-D	mg/L		0.00073	<0.025	<0.0010	<0.025	<0.025	<0.025	<0.025	<0.025
Zn-D	mg/L		0.00350	<0.025	0.00278	<0.025	<0.025	<0.025	<0.025	<0.025
Zn-CSR	mg/L		0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
N-NH3	mg/L									
NH3-CSR	mg/L		3.70	3.70	3.7	3.70	4	3.70	3.70	3.70

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 33 Ex-situ and In-situ Groundwater 9 Page(s)

In-Situ and Ex-Situ Groundwater Wells											
Wlevel	Well ID Top Elev. m	Duplicate Sample	QU1013S	QU1013S	QU1013S	QU1013S	QU1013S	QU1013S	QU1014S	QU1014S	QU1014S
			270.68	270.68	270.68	270.68	270.68	270.68	270.68	270.68	270.68
Date			39.53	42.21	51.31	44.36	36.932	38.5	38.57		
Parameter	Units		M	M	M	M	M	M	M	M	M
			12-May-25	17-Jun-25	24-Jul-25	19-Nov-25	8-Jan-26	17-Feb-26	27-May-25	29-Jul-25	25-Nov-25
SO4-D	mg/L	1280	50	46	32	35	28	37	24	32	38
H2SEquiv	mg/L	0.02	0.223	0.308	0.00287	0.0106	0.0446	0.191	0.000957	0.0106	0.00478
Cond-F	uS/cm		651	659.3	539.4	110.9	168	676	508.5	690	
pH-F	pH Units		8.37	8.32	7.75	7.71	8.17	8.22	6.9	8.4	
Temp-F	C		8.8	8.3	11.77	7.9	7.7	7.718	18.672	17.1	
DO-F	mg/L		1.09	5.91	3.82	0.49	0.22	-0.34	2.41		
ORP-F	mV		-89.3	-59.4	147.3	-203	-103.9		53		
Turb	NTU		12	4.9	21	11	3		24	200	77
Alk-T	mg/L		340	360	260	190	220	350	250	280	270
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	<1.0	<1.0
N-D	mg/L										
DOC	mg/L		1.3	1.2	3.7	1.5	1.8	1.5	2.8	2.2	2.2
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		370	400	320	240	270	410	310	330	320
Carb	mg/L		24	18	<1.0	<1.0	<1.0	11	<1.0	7.0	<1.0
Cl-D	mg/L	1500	12	16	6.8	2.6	3.6	13	<1.0	1.4	1.2
F-D	mg/L		0.96	1.0	0.68	0.71	0.77	1.2	0.18	0.26	0.12
Flu-CSR	mg/L		2.00	2.00	2.00	2.0	2.00	2.00	3.0	3.00	3.00
Br-D	mg/L		0.019	0.024	0.019	<0.010	0.01	0.024	<0.010	<0.010	<0.010
P-D	mg/L		0.093								
Al-D	mg/L		0.0038	<0.0060	0.0085	0.011	0.0073	<0.0060	0.0086	0.0061	<0.0030
Ag-D	mg/L		<0.000010	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.000500	0.000500	0.000500	0.000500	0.000500	0.000500	0.015	0.0150	0.0150
As-D	mg/L	0.05	0.233	0.220	0.112	0.148	0.207	0.255	0.0159	0.00752	0.00549
Ba-D	mg/L	10	0.150	0.152	0.113	0.0736	0.0661	0.115	0.252	0.177	0.211
B-D	mg/L	12	1.92	1.88	1.34	1.03	1.13	2.19	0.676	0.950	0.864
Be-D	mg/L	0.053	<0.000020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.000010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000300	0.000300	0.000300	0.00010	0.000100	0.000100	0.00050	0.000500	0.000500
Ca-D	mg/L		9.08	9.20	14.3	6.36	5.29	7.85	27.6	28.5	33.1
Cr-D	mg/L	0.01	<0.00020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.000023	<0.00040	0.00034	<0.00020	<0.00020	<0.00040	0.00436	<0.00020	0.00024
Cu-D	mg/L		<0.00010	<0.00040	0.00105	0.00064	<0.00020	<0.00040	0.00031	0.00107	0.00291
Cu-CSR	mg/L		0.0200	0.0200	0.0200	0.020	0.0200	0.0200	0.050	0.0500	0.0600
Fe-D	mg/L		0.0607	0.055	0.0371	0.247	0.143	0.11	0.235	0.0550	0.0984
Hard-D	mg/L		30.9	30.5	44.2	21	17.4	26.3	110	116	136
Pb-D	mg/L		<0.000010	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0400	0.0400	0.0400	0.040	0.0400	0.0400	0.060	0.0600	0.0600
Mg-D	mg/L		1.99	1.83	2.09	1.24	1.01	1.62	10.0	11.0	13
Mn-D	mg/L		0.0141	0.0273	0.121	0.0242	0.0133	0.011	0.398	0.0065	0.0285
Hg-D	mg/L	0.001									
Na-D	mg/L		171	168	120	98	98.9	167	70.4	88.4	76.3
Mo-D	mg/L	10	0.00082	<0.0020	0.0015	0.0013	0.0012	<0.0020	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.000046	<0.0020	0.0019	<0.0010	<0.0010	<0.0020	0.0031	<0.0010	<0.0010
Ni-CSR	mg/L		0.250	0.250	0.250	0.25	0.250	0.250	0.65	0.650	1.10
K-D	mg/L		2.81	2.70	3.02	2.11	1.95	2.57	2.79	3.09	2.95
S-D	mg/L		18.4	18.1	11.6	12.1	7.9	12.1	7.9	10.1	12.7
Sb-D	mg/L	0.2	0.000132	<0.0010	0.00550	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.000208	0.00120	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	0.00021	<0.00010
Si-D	mg/L		4.81	4.29	4.32	3.96	4.06	4.56	2.91	2.38	2.99
Sr-D	mg/L		0.190	0.192	0.216	0.106	0.103	0.161	0.519	0.489	0.575
Tl-D	mg/L	0.003	<0.0000040	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<0.0010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.0000270	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.00040	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.00091	<0.010	0.0078	<0.0050	<0.0050	0.035	<0.0050	<0.0050	0.0087
Zn-CSR	mg/L		0.075	0.075	0.075	0.075	0.075	0.075	0.900	0.900	0.900
N-NH3	mg/L										
NH3-CSR	mg/L		3.70	3.70	11.3	11.3	3.70	3.70	18	3.7	

Notes:

Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit. NOT compared to CSR-AW = QU0813 (A B), QU1410, 2M7S and 3M7S - Table 5B.

Appendix 1 - Tables

Table 34 Seepage Near QU1109 (SUS) 1 Page(s)

EMS ID		ST2										
Site Description		Seepage coming out ground, flows making up S.										
Site Name		SUS										
Date		2025-04-08	2025-04-14	2025-04-22	2025-05-12	2025-05-20	2025-05-26	2025-06-03	2025-06-09	2025-06-16	2025-06-23	2025-06-30
pH-F	pH Units	7.27	7.22	7.1	7.2	7.16	7.29	7.25	7.14	7.19	7.2	7.17
Cond-F	uS/cm	1235	1544.7	1659.2	1709	1726.7	1856.6	1834.9	2004.7	1948.4	2400	2895.6
SO4-D	mg/L	270	310	350	430	470	510	480	500	480	530	620
H2S	mg/L	0.83	0.85			0.39				0.36		
Turb	NTU											
Alk-T	mg/L	400	400	420	440	440	460	460	470	470	470	470
Acidity83	mg/L	<1.0	4.3	3.0	1.5	<1.0	<1.0	<1.0	<1.0	4.0	8.1	1.2
Cl-D	mg/L	22	23	25	24	23	23	21	21	21	21	21
DOC	mg/L	1.3		1.3	1.2	1.3	1.3	1.3	1.6	1.2	1.3	1.8
F-D	mg/L	0.30	0.3	0.27	0.25	0.24	0.25	0.24	0.25	0.25	0.22	0.24
Al-T	mg/L	0.0051	0.0052	0.0043	0.0038	0.0035	0.0042	0.0036	0.0037	0.0033	<0.0030	<0.0030
As-T	mg/L	0.0561	0.0597	0.0634	0.0557	0.0577	0.0645	0.0614	0.0609	0.0589	0.0680	0.0602
Ba-T	mg/L	0.0659	0.0681	0.0702	0.0620	0.0607	0.0617	0.0578	0.0602	0.0587	0.0600	0.0636
B-T	mg/L	1.21	1.2	1.37	1.19	1.40	1.48	1.39	1.33	1.43	1.46	1.28
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000013	<0.000010	<0.000010	<0.000010	0.000010	<0.000010
Ca-T	mg/L	40.2	45.1	47.1	62.5	68.7	77.4	77.5	81.6	82.1	90.9	82.6
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	0.00031	0.00040	0.00040	0.00055	0.00057	0.00075	0.00089	0.00090
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	140	158	174	215	240	267	265	282	290	304	291
Fe-T	mg/L	0.247	0.296	0.328	0.497	0.614	0.725	0.863	0.934	1.02	1.19	1.11
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	9.68	10.9	13.7	14.4	16.5	18.0	17.4	18.9	20.6	18.7	20.6
Mn-T	mg/L	0.0531	0.0616	0.0847	0.123	0.149	0.176	0.202	0.217	0.257	0.277	0.278
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	3.67	3.78	4.46	4.56	4.87	5.39	4.97	5.31	5.14	5.36	4.98
S-T	mg/L	98.6	107	150	150	172	192	188	197	194	205	192
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	5.62	5.61	5.14	5.63	6.21	6.56	6.08	6.80	5.75	6.45	5.53
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	248	248	308	297	334	367	338	360	355	353	330
Sr-T	mg/L	0.491	0.55	0.724	0.795	0.834	0.958	0.986	0.994	1.09	1.12	1.00
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.00280	0.0033	0.00261	0.00375	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
As-D	mg/L	0.0645	0.0695	0.0661	0.0540	0.0531	0.0596	0.0624	0.0560	0.0571	0.0564	0.0559
Ba-D	mg/L	0.0684	0.0712	0.0700	0.0663	0.0632	0.0612	0.0598	0.0608	0.0604	0.0589	0.0587
B-D	mg/L	1.34	1.5	1.42	1.44	1.48	1.53	1.45	1.44	1.35	1.62	1.53
Be-D	mg/L	<0.000010	<0.00010	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	41.7	45.9	49.7	62.6	73.9	76.7	77.6	81.3	84.5	88.1	88.0
Cr-D	mg/L	<0.00010	<0.0010	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.0000673	<0.00020	0.000160	0.000305	0.00042	0.00042	0.00054	0.00053	0.00082	0.00083	0.00097
Cu-D	mg/L	0.000093	<0.00020	0.000070	0.000062	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Hard-D	mg/L	147	164	179	224	254	263	263	281	288	311	302
Fe-D	mg/L	0.250	0.295	0.319	0.515	0.652	0.682	0.878	0.947	0.990	1.19	1.15
Pb-D	mg/L	<0.0000050	<0.00020	<0.0000050	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	10.3	11.9	13.3	16.5	16.9	17.4	16.9	18.9	18.6	22.1	20.0
Mn-D	mg/L	0.0558	0.0632	0.0836	0.128	0.156	0.180	0.198	0.225	0.257	0.290	0.271
Mo-D	mg/L	0.000131	<0.0010	0.000096	0.000225	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.000137	<0.0010	0.000152	0.000262	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	3.90	4.12	4.42	4.82	4.97	5.20	4.94	5.07	5.06	5.33	5.37
S-D	mg/L	103	116	149	171	182	191	195	194	196	213	205
Se-D	mg/L	0.000045	0.0004	0.000116	0.000537	0.00024	0.00035	0.00200	0.00241	<0.00010	0.00272	<0.00020
Si-D	mg/L	6.02	5.7	5.37	5.78	6.12	5.95	6.03	5.88	6.12	6.12	6.12
Na-D	mg/L	263	281	308	339	332	347	326	365	334	388	340
Sr-D	mg/L	0.527	0.645	0.720	0.890	0.880	0.945	0.960	1.13	1.02	1.17	1.13
Zn-D	mg/L	0.00377	<0.0050	0.00018	0.00110	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 34 Seepage Near QU1109 (SUS) 1 Page(s)

EMS ID													
Site Description	Seepage c												
Site Name	SUS												
Date		2025-07-07	2025-07-14	2025-07-21	2025-07-28	2025-11-10	2025-11-24	2025-12-09	2025-12-22	2026-01-07	2026-01-29	2026-02-09	2026-03-02
pH-F	pH Units	7.22	7.16	7.18	7.6	7.3	7.23	7.29	7.42	7.34	7.01	7.47	7.39
Cond-F	uS/cm	2070	2120	2000	1491	1163	1623	1237	1649	1644	1657.3	1718	1815
SO4-D	mg/L	520	530	590	250	160	430	300	430	350	420	400	340
H2S	mg/L		0.23	0.056									
Turb	NTU		11	20	1.2								
Alk-T	mg/L	460	480	410	510	290	400	310	410	440	440	430	450
Acidity83	mg/L	3.0	1.2	<1.0	2.3	<1.0	<1.0	<1.0	3.2	1.7		2.6	1.3
Cl-D	mg/L	21	21	18	44	19	18	12	15	19	21	15	15
DOC	mg/L	1.6	1.6	2.7		3.1	2.4	2.7	2.3				
F-D	mg/L	0.23	0.23	0.14		0.22	0.26	0.2	0.21	0.3		0.21	0.29
Al-T	mg/L	<0.0060	0.0257	0.0115	0.0102	0.034	0.0081	0.0581	0.0129	0.0066	0.0113	0.0104	0.0088
As-T	mg/L	0.0631	0.0673	0.103	0.0831	0.0279	0.023	0.0169	0.0187	0.0283	0.0223	0.02	0.027
Ba-T	mg/L	0.0538	0.0557	0.0663	0.0430	0.0461	0.118	0.0734	0.0934	0.0833	0.0892	0.0745	0.0725
B-T	mg/L	1.38	1.54	1.28	1.71	1.2	1.26	0.867	1.35	1.24	1.12	1.13	1.21
Cd-T	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	86.3	87.7	95.9	34.5	27.8	81.4	59.2	74.7	67	88.2	76.1	72
Cr-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00105	0.00094	0.00244	<0.00020	<0.00020	0.00023	<0.00020	<0.00020	0.00028	0.0002	<0.00020	<0.00020
Cu-T	mg/L	<0.0010	<0.0010	<0.00050	<0.00050	0.00055	<0.00050	0.00067	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	294	301	342	119	96.5	271	195	251	220	279	244	230
Fe-T	mg/L	1.26	1.24	3.07	0.427	0.231	0.255	0.181	0.217	0.319	0.264	0.22	0.294
Pb-T	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	19.2	19.9	24.9	8.03	6.58	16.5	11.4	15.8	12.7	14.3	13	12.2
Mn-T	mg/L	0.287	0.283	0.546	0.109	0.0251	0.0929	0.034	0.0711	0.161	0.115	0.1	0.113
Mo-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	5.13	4.84	4.00	4.66	3.26	5.01	3.96	4.39	4.72	5.4	4.87	5
S-T	mg/L	214	195	220	78.4	53.2	163	114	157	146	175	150	143
Se-T	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	6.80	6.04	7.16	4.52	4.49	4.86	4.41	4.04	3.93	4.51	4.21	4.3
Ag-T	mg/L	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	345	353	321	309	185	288	208	278	279	305	262	284
Sr-T	mg/L	0.948	1.00	0.896	0.621	0.368	0.91	0.73	0.802	0.781	0.965	0.86	0.946
Zn-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	0.0584	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0060	<0.0060	0.0038	<0.0030	0.0063	0.0045	0.0083	0.0044	0.0035	<0.0030	0.0032	0.0031
As-D	mg/L	0.0555	0.0653	0.0865	0.0762	0.0158	0.0207	0.0154	0.0188	0.031	0.018	0.0241	0.0257
Ba-D	mg/L	0.0509	0.0567	0.0705	0.0423	0.0465	0.122	0.0749	0.0962	0.0818	0.0872	0.0736	0.0709
B-D	mg/L	1.38	1.76	1.21	1.88	1.04	1.29	0.855	1.53	1.58	0.999	1.25	1.22
Be-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	80.9	91.4	99.6	36.8	31.8	79.2	60.3	80.2	64.4	86.1	68.2	73.6
Cr-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00099	0.00091	0.00314	<0.00020	<0.00020	0.00022	<0.00020	<0.00020	0.00027	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	0.00032	<0.00020	0.00029	0.00022	<0.00020	<0.00020	<0.00020	<0.00020
Hard-D	mg/L	278	324	347	126	110	275	198	269	214	274	223	233
Fe-D	mg/L	1.10	1.16	2.85	0.268	0.0828	0.229	0.119	0.163	0.342	0.195	0.304	0.28
Pb-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	18.5	23.3	23.8	8.34	7.52	18.8	11.6	16.6	12.9	14.4	12.9	12
Mn-D	mg/L	0.270	0.296	0.638	0.115	0.0149	0.0892	0.0342	0.0726	0.168	0.0932	0.115	0.11
Mo-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	4.90	5.18	3.97	4.86	3.04	5.05	4.08	4.61	4.95	5.22	4.8	5.08
S-D	mg/L	209	213	218	94.8	53.7	169	120	164	147	165	143	146
Se-D	mg/L	<0.00020	<0.00020	<0.00010	0.0109	0.0005	0.00052	<0.00010	0.00103	0.00127	0.00046	0.00025	0.00139
Si-D	mg/L	6.22	6.45	7.11	4.92	4.52	4.68	4.4	4.38	4.09	3.99	3.87	4.26
Na-D	mg/L	331	400	309	335	163	307	214	290	296	292	271	278
Sr-D	mg/L	0.908	1.02	0.795	0.599	0.374	0.866	0.732	0.82	0.803	0.883	0.81	0.889
Zn-D	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 35 Seepage Near QU1109 (S) 2 Page(s)

EMS ID		ST1												
Site Description		Seepage near QU1109												
Site Name		S												
Date		2025-04-01	2025-04-02	2025-04-03	2025-04-07	2025-04-08	2025-04-10	2025-04-14	2025-04-28	2025-04-29	2025-04-30	2025-05-06	2025-05-07	2025-05-08
Flow	m3/s	0.00488	0.009513					0.00454		0.0633333	0.0633333	0.0255		
pH-F	pH Units	7.57	7.57	7.58	7.68	7.6	7.46	7.46	7.09	7.21	7.25	7.22	7.24	
Cond-F	uS/cm	1537.9	1626.7	1667.5	1760	1596	1769.2	2018	2044	2220	2372	2184	2340.2	2363.6
SO4-D	mg/L	370	420	330	480	460	460	530	780	810	720	750	760	720
Turb	NTU								92	100	96			
Alk-T	mg/L		420	250	440	430	440	440	470	480	480	480	450	480
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	1.8	11.9	12.1	<1.0	2.7	4.4	4.9
Cl-D	mg/L		18	12	19	19	19	19	19	18	17	17	18	18
DOC	mg/L								1.2	0.98	1.0	1.0		0.96
F-D	mg/L		0.14	0.085	0.14	0.14	0.13	0.15	0.082	0.083	<0.050	0.067		0.077
Al-T	mg/L	0.0079	0.0073	0.0049	0.0068	0.0067	0.0686	0.0081	0.0456	0.0201	0.0113	0.0423	0.0110	0.0107
As-T	mg/L	0.0107	0.0117	0.0110	0.0115	0.0112	0.0120	0.0122	0.00556	0.00410	0.00377	0.00455	0.00479	0.00447
Ba-T	mg/L	0.0457	0.0464	0.0477	0.0510	0.0475	0.0481	0.0516	0.0417	0.0357	0.0339	0.0328	0.0335	0.0329
B-T	mg/L	0.793	0.814	0.882	0.909	0.918	1.02	0.928	1.07	1.05	0.96	1.04	0.949	1.05
Cd-T	mg/L	<0.000010	0.000015	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000028	<0.000020	0.000027	0.000022	0.000020	0.000029
Ca-T	mg/L	86.8	90.0	93.2	101	98.7	167	110	166	162	154	161	162	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00025	0.00027	0.00061	0.00082	0.00096	0.00118	0.00101	0.00117
Cu-T	mg/L	0.00076	0.00093	0.00056	0.00086	0.00076	0.00115	0.00093	0.0025	0.0026	0.0027	0.0026	0.00235	0.0027
Hard-T	mg/L	264	276	283	306	302	296	336	494	496	490	461	482	482
Fe-T	mg/L	1.30	1.43	1.41	1.74	1.70	2.01	2.1	7.81	7.81	7.34	5.36	5.41	5.87
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040
Mg-T	mg/L	11.5	12.6	12.3	13.0	13.5	14.0	15	18.9	19.8	20.9	18.7	19.0	19.1
Mn-T	mg/L	0.235	0.244	0.271	0.314	0.311	0.345	0.396	0.939	0.957	0.885	0.875	0.814	0.879
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020
K-T	mg/L	4.19	4.67	4.49	4.69	4.71	4.51	5.02	6.11	6.10	5.84	5.68	5.75	5.96
S-T	mg/L	140	155	159	174	175	169	188	275	274	302	254	273	277
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020
Si-T	mg/L	3.60	3.41	3.49	3.64	3.69	3.69	3.65	3.80	3.60	3.44	3.55	3.69	3.82
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000040
Na-T	mg/L	248	282	272	284	288	286	305	362	364	375	354	365	354
Sr-T	mg/L	0.963	0.982	1.04	1.12	1.07	1.08	1.2	1.80	1.84	1.96	1.65	1.78	1.70
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010
Al-D	mg/L	0.00346	0.00310	<0.0030	<0.0030	0.00208	<0.0030	<0.0030	0.0021	<0.0010	<0.0060	0.0025	0.0019	0.0017
As-D	mg/L	0.0102	0.0111	0.0100	0.0105	0.0109	0.0115	0.0111	0.00266	0.00247	0.00227	0.00332	0.00365	0.00357
Ba-D	mg/L	0.0455	0.0453	0.0469	0.0484	0.0492	0.0502	0.0519	0.0400	0.0324	0.0324	0.0306	0.0321	0.0311
B-D	mg/L	0.961	0.967	0.835	0.926	1.09	1.16	1.18	1.05	0.998	0.96	1.05	1.09	1.08
Be-D	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.000010	<0.00010	<0.00010	<0.000020	<0.000020	<0.00020	<0.000020	<0.000020	<0.000020
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	86.3	91.0	93.1	109	100	102	108	168	168	170	147	176	171
Cr-D	mg/L	<0.00010	<0.00010	<0.0010	<0.0010	<0.00010	<0.0010	<0.0010	<0.00020	<0.00020	<0.0020	<0.00020	<0.00020	<0.00020
Co-D	mg/L	0.0000715	0.0000712	<0.00020	<0.00020	0.000140	<0.00020	0.00026	0.000566	0.000780	0.00099	0.00120	0.00122	0.00119
Cu-D	mg/L	0.000140	0.000135	<0.00020	<0.00020	0.000157	<0.00020	<0.00020	0.00014	0.00014	<0.00040	0.00021	0.00013	0.00012
Hard-D	mg/L	276	283	281	329	313	318	335	502	504	507	441	522	514
Fe-D	mg/L	0.0963	0.107	0.106	0.146	0.138	0.140	0.22	5.16	5.18	5.29	2.84	3.37	3.71
Pb-D	mg/L	0.0000058	<0.0000050	<0.00020	<0.00020	<0.0000050	<0.00020	<0.00020	<0.000010	<0.000010	<0.00040	<0.000010	0.000020	<0.000010
Mg-D	mg/L	14.8	13.6	11.8	13.9	15.1	15.3	16	20.1	20.3	20.2	18.0	20.3	21.3
Mn-D	mg/L	0.238	0.261	0.269	0.321	0.340	0.358	0.408	0.873	0.853	0.940	0.842	0.910	0.841
Mo-D	mg/L	0.000467	0.000473	<0.0010	<0.0010	0.000494	<0.0010	<0.0010	0.00063	0.00062	<0.0020	0.00048	0.00050	0.00052
Ni-D	mg/L	0.000136	0.000153	<0.0010	<0.0010	0.000155	<0.0010	<0.0010	0.000351	0.000528	<0.0020	0.00104	0.00118	0.00115
K-D	mg/L	4.44	4.47	4.48	5.00	5.05	4.94	5.22	5.62	5.63	6.33	5.49	6.33	5.44
S-D	mg/L	146	154	148	176	186	186	200	286	275	280	248	280	270
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	<0.00010	<0.00010	<0.000080	<0.000080	<0.00020	<0.000080	<0.000080	<0.000080
Si-D	mg/L	3.95	3.69	3.66	4.12	3.86	3.83	4.02	3.59	3.48	3.47	3.33	3.73	3.54
Na-D	mg/L	323	297	265	298	315	311	319	386	368	372	336	383	355
Sr-D	mg/L	1.08	1.07	1.03	1.18	1.26	1.26	1.37	1.86	1.76	1.75	1.60	1.74	1.91
Zn-D	mg/L	0.0146	0.00806	0.0111	<0.0050	0.0133	0.0139	0.0123	0.00364	0.00243	<0.010	0.00116	0.00149	0.00057

Appendix 1 - Tables

Table 35 Seepage Near QU1109 (S) 2 Page(s)

EMS ID															
Site Description		Seepage n													
Site Name		S													
Date		2025-05-12	2025-05-13	2025-05-14	2025-05-15	2025-05-20	2025-05-21	2025-05-26	2025-06-03	2025-06-09	2025-06-16	2025-06-23	2025-06-30	2025-07-07	2025-07-14
Flow	m³/s		0.01917	0.013815789			0.019166667			0.001011561	0.000933499	0.000850409	0.000784812	0.0000037	0.000475931
pH-F	pH Units	7.3	7.3	7.34	7.07	7.2	7.25	7.8	7.81	7.74	7.86	7.79	7.8	7.86	7.71
Cond-F	uS/cm	2224.6	2274	2224.3	2233	2247.9	2328	1788.5	1721.9	1849.3	1793.9	1902	2600.2	2010	2010
SO4-D	mg/L	720	730	760	750	760	770	450	410	430	440	450	470	490	430
Turb	NTU														2.3
Alk-T	mg/L	480	490			480	430	460	470	470	490	490	470	490	500
Acidity83	mg/L	7.7	2.2			4.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	17	17	17	16	15	15	23	23	24	23	24	24	24	25
DOC	mg/L	1.2	1.1	1.0	1.0	1.1	1.1		1.7	1.9	1.9	1.8	2.3	2.0	1.9
F-D	mg/L	0.086	0.10	0.073	0.068	0.077	0.074		0.26	0.29	0.30	0.28	0.30	0.31	0.33
Al-T	mg/L	0.0097	0.0085	0.0092	0.0070	0.0068	<0.0060	0.0034	0.0033	0.0052	0.0039	0.0032	<0.0030	<0.0060	0.0062
As-T	mg/L	0.00543	0.00464	0.00509	0.00520	0.00559	0.00492	0.0204	0.0259	0.0255	0.0230	0.0219	0.0199	0.0179	0.0207
Ba-T	mg/L	0.0362	0.0327	0.0341	0.0333	0.0357	0.0318	0.0736	0.0757	0.0721	0.0789	0.0835	0.0858	0.0766	0.0882
B-T	mg/L	1.17	0.89	1.02	1.05	1.18	1.07	1.38	1.38	1.54	1.24	1.50	1.23	1.35	1.60
Cd-T	mg/L	0.000022	0.000020	0.000022	0.000022	0.000022	0.000022	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Ca-T	mg/L	180	148	153	157	179	161	85.9	74.9	72.3	69.0	70.2	68.3	67.8	68.1
Cr-T	mg/L	<0.00020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Co-T	mg/L	0.00103	0.00102	0.00096	0.00108	0.00126	0.00118	0.00027	0.00029	0.00033	0.00036	0.00039	0.00040	0.00046	0.00051
Cu-T	mg/L	0.00237	0.0024	0.0023	0.0027	0.0025	0.0023	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Hard-T	mg/L	540	444	458	471	533	483	282	247	245	235	243	234	228	232
Fe-T	mg/L	5.62	5.23	5.71	6.07	6.4	5.58	0.250	0.314	0.491	0.307	0.321	0.332	0.354	0.447
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Mg-T	mg/L	22.2	18.1	18.5	19.1	21	19.7	16.3	14.6	15.8	15.4	16.3	15.4	14.3	15.1
Mn-T	mg/L	0.892	0.788	0.864	0.846	0.965	0.88	0.224	0.282	0.331	0.418	0.457	0.464	0.504	0.552
Mo-T	mg/L	0.00044	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Ni-T	mg/L	0.00101	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
K-T	mg/L	5.86	5.54	5.73	5.75	6.55	5.73	5.57	4.82	5.02	5.08	5.12	4.93	5.19	5.47
S-T	mg/L	284	234	273	260	308	283	187	170	173	167	170	156	165	164
Se-T	mg/L	<0.00080	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	0.00106	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Si-T	mg/L	3.73	3.05	3.53	3.43	3.94	3.47	5.09	5.00	4.70	4.28	4.40	4.23	4.71	4.49
Ag-T	mg/L	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
Na-T	mg/L	408	340	345	341	378	348	357	318	346	320	341	308	319	348
Sr-T	mg/L	2	1.58	1.87	1.70	1.98	1.67	1.02	0.909	0.851	0.975	1.03	0.890	0.861	0.947
Zn-T	mg/L	<0.0020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Al-D	mg/L	0.0016	<0.0010	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	0.0030	<0.0030	<0.0030	<0.0030	<0.0060	<0.0060
As-D	mg/L	0.00367	0.00400	0.00356	0.00407	0.00404	0.00388	0.0183	0.0242	0.0224	0.0225	0.0200	0.0184	0.0180	0.0178
Ba-D	mg/L	0.0323	0.0338	0.0324	0.0327	0.0312	0.0323	0.0711	0.0730	0.0787	0.0809	0.0843	0.0830	0.0877	0.0908
B-D	mg/L	1.04	1.06	1.13	1.06	1.12	1.17	1.43	1.40	1.35	1.37	1.67	1.46	1.52	1.86
Be-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Cd-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Ca-D	mg/L	163	161	159	163	170	179	85.8	74.3	72.7	75.7	77.2	72.8	76.2	73.7
Cr-D	mg/L	<0.00020	<0.00020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Co-D	mg/L	0.00116	0.00104	0.00098	0.00111	0.0012	0.00131	0.00024	0.00030	0.00032	0.00038	0.00038	0.00041	0.00049	0.00051
Cu-D	mg/L	0.00017	0.00011	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	0.00021	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Hard-D	mg/L	488	485	479	495	509	536	276	246	251	253	269	245	257	251
Fe-D	mg/L	2.53	2.60	2.29	3.31	3.13	2.98	0.114	0.172	0.134	0.161	0.154	0.125	0.189	0.216
Pb-D	mg/L	0.000016	<0.000010	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Mg-D	mg/L	19.9	19.9	20.2	21.1	20.7	21.7	15.0	14.6	16.8	15.5	18.5	15.5	16.3	16.4
Mn-D	mg/L	0.838	0.906	0.856	0.911	0.902	0.952	0.214	0.279	0.356	0.440	0.474	0.470	0.611	0.551
Mo-D	mg/L	0.00046	0.00053	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Ni-D	mg/L	0.00107	0.00100	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
K-D	mg/L	6.14	6.24	5.60	5.65	6.04	6.43	5.22	4.87	5.02	5.17	5.33	5.15	5.61	5.56
S-D	mg/L	271	297	279	288	293	307	180	169	169	172	184	168	178	169
Se-D	mg/L	<0.00080	<0.00080	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Si-D	mg/L	3.75	3.57	3.53	3.46	3.39	3.55	4.68	4.88	4.73	4.91	4.79	4.68	4.61	4.93
Na-D	mg/L	367	375	379	372	358	370	328	316	385	341	374	322	345	374
Sr-D	mg/L	1.71	1.98	1.90	1.91	1.77	1.85	0.963	0.888	0.992	0.929	1.06	1.02	1.09	0.991
Zn-D	mg/L	0.00164	0.00203	<0.010	<0.010	<0.010	0.063	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010

Appendix 1 - Tables

Table 35 Seepage Near QU1109 (S) 2 Page(s)

EMS ID											
Site Description	Seepage n										
Site Name	S										
Date		2025-07-21	2025-07-28	2025-08-05	2025-11-10	2025-11-24	2025-12-09	2025-12-22	2026-01-07	2026-01-29	2026-02-09
Flow	m3/s	0.000395677		0.00007606		0.001524	0.001887471	0.001129318	0.000622	0.001283	0.001307556
pH-F	pH Units	7.97	8.1	7.99	7.73	7.35	7.63	7.62	7.65	6.95	7.669
Cond-F	uS/cm	1774	1584	1569	1043	1784	1374	1743	1747	1625.5	1478.5
SO4-D	mg/L	430	300	320	170	480	360	450	440	460	430
Turb	NTU	2.6	1.6	2.1							
Alk-T	mg/L	490	500	490	340	390	320	400	410	440	420
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0		<1.0
Cl-D	mg/L	29	38	41	21	16	11	13	13	17	12
DOC	mg/L	1.8	2.2	2.7	3.4						
F-D	mg/L	0.40	0.42	0.37	0.28						
Al-T	mg/L	0.0037	<0.0060	0.0050	0.0212	0.0084	0.0928	0.0348	0.0128	0.0132	0.0121
As-T	mg/L	0.0191	0.0143	0.0105	0.00905	0.0108	0.0094	0.0134	0.0109	0.0111	0.0132
Ba-T	mg/L	0.0756	0.0567	0.0488	0.035	0.122	0.0791	0.0926	0.0809	0.0807	0.0792
B-T	mg/L	1.58	1.80	1.45	1.03	1.16	0.752	1.19	0.979	0.977	1.09
Cd-T	mg/L	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00001	<0.000010
Ca-T	mg/L	62.6	48.6	50.0	28	95.1	71.3	87.8	79.4	90.5	90.4
Cr-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00043	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.0010	<0.00050	0.00053	<0.00050	0.00058	0.00055	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	216	165	168	94	317	227	284	252	282	283
Fe-T	mg/L	0.463	0.354	0.193	0.067	0.082	0.128	0.337	0.084	0.093	0.104
Pb-T	mg/L	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	14.4	10.7	10.4	5.84	19.3	12	15.7	13.1	13.7	14
Mn-T	mg/L	0.477	0.304	0.122	0.0058	0.0392	0.0164	0.0416	0.0401	0.0419	0.0455
Mo-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	5.13	4.41	4.10	2.88	5.08	3.9	4.51	4.35	4.85	5.2
S-T	mg/L	151	107	103	52.1	198	136	171	160	172	167
Se-T	mg/L	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	4.72	4.50	3.90	4.19	4.73	3.91	3.84	3.88	3.88	4.19
Ag-T	mg/L	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	335	327	292	175	304	218	281	258	284	282
Sr-T	mg/L	0.936	0.615	0.583	0.325	0.999	0.832	0.898	0.83	0.964	0.981
Zn-T	mg/L	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0071	0.0045	0.0126	0.0052	0.0049	0.0035	0.0052
As-D	mg/L	0.0148	0.0115	0.0101	0.00939	0.0103	0.00952	0.0117	0.0123	0.0119	0.0128
Ba-D	mg/L	0.0728	0.0545	0.0500	0.0376	0.124	0.0829	0.0952	0.0862	0.0863	0.076
B-D	mg/L	1.63	1.73	1.41	1.21	1.13	0.815	1.38	1.17	0.952	1.1
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	63.1	49.7	51.1	30.1	92	74.5	93.1	83	94.4	80.2
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00047	0.00031	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	<0.00020	<0.00020	0.00033	0.00045	0.00027	0.00038	0.00026	0.00024	0.00022	0.00034
Hard-D	mg/L	213	167	171	103	317	239	302	267	295	257
Fe-D	mg/L	0.140	0.0501	0.0176	0.018	0.0592	0.0478	0.0598	0.059	0.0841	0.0813
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	13.6	10.5	10.5	6.8	21.3	12.9	16.9	14.6	14.5	13.7
Mn-D	mg/L	0.496	0.320	0.109	0.0046	0.0387	0.0168	0.0296	0.0407	0.043	0.0426
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	5.24	4.85	4.43	3.14	5.14	4.21	4.69	4.76	5.28	4.68
S-D	mg/L	152	115	106	55.2	196	146	183	175	180	154
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	4.75	4.52	4.31	4.32	4.56	3.96	3.96	3.59	3.78	3.75
Na-D	mg/L	329	338	302	195	325	235	298	295	299	268
Sr-D	mg/L	0.820	0.623	0.663	0.345	0.997	0.883	0.922	0.916	0.95	0.865
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 36 Seepage Near QU1105 (S2A) 1 Page(s)

EMS ID																			
Site Description		Potential Seepage (S2A) near QU1105 entering river																	
Site Name		S2A																	
Date		2025-04-08	2025-04-14	2025-04-22	2025-04-29	2025-05-06	2025-05-12	2025-05-21	2025-05-26	2025-06-03	2025-06-09	2025-06-16	2025-06-23	2025-06-30	2025-07-07	2025-07-28	2025-09-08	2025-11-24	2026-03-19
Flow	m3/s				0.007	0.007			0.005		0.004489098	0.005573248	0.004774898	0.00539291	0.00464	0.000339487	0.00438		
pH-F	pH Units	7.39	7.27	7.43	7.33	7.28	7.41	6.92	7.04	7.06	7.22	7.09	6.86	7.16	6.97	7.23	7.32	7.15	
Cond-F	uS/cm	1476	1618	1769	1908	1820	1940	1852.7	2015	2050	2050	2080	2007.3	2090	2124	2008	1220	1523	
SO4-D	mg/L	340	370	380	440	450	470	530	590	590	590	550	700	690	620	610	270	400	370
Alk-T	mg/L	390	400	410	410	430	440	410	440	450	450	460	460	460	470	460	300	380	410
Acidity83	mg/L	1.4	7.3	5.7	10.3	1.8	2.0	<1.0	3.1	1.7	1.7	1.7	11.9	7.3	5.2	12.4	<1.0	<1.0	<1.0
Cl-D	mg/L	9.5	10	12	11	11	12	12	12	11	11	11	11	12	12	13	14	9.5	10
DOC	mg/L	1.4	1.3	1.2	1.3	1.2	1.4	1.5	1.3	1.5	1.2	1.1	1.2	1.3	1.2	1.3	1.9	1.7	
F-D	mg/L	0.22	0.23	0.22	0.21	0.19	0.22	0.22	0.21	0.21	0.22	0.23	0.21	0.21	0.20	0.22	0.31	0.2	0.17
Al-T	mg/L	0.0118	0.0084	0.0064	0.0110	0.0132	0.0057	0.0047	0.0057	0.0057	<0.0030	0.0052	0.0045	0.0035	<0.0060	0.0082	0.0121	0.0227	0.0269
As-T	mg/L	0.0468	0.0491	0.0464	0.0487	0.0545	0.0456	0.0458	0.0554	0.0514	0.0510	0.0508	0.0564	0.0518	0.0512	0.0590	0.0740	0.0429	0.055
Ba-T	mg/L	0.102	0.111	0.107	0.114	0.116	0.109	0.107	0.117	0.112	0.110	0.100	0.106	0.105	0.0918	0.0955	0.0797	0.0791	0.0642
B-T	mg/L	0.820	0.873	0.933	0.941	0.979	0.864	1.06	1.18	1.09	1.29	0.971	1.22	0.949	1.09	1.36	1.03	0.887	0.918
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	87.7	94.8	89.7	104	113	116	129	149	144	156	131	145	139	142	138	65.4	107	89.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	0.00023	0.00026	0.00026	0.00029	0.00036	0.00039	0.00041	0.00040	0.00047	0.00045	0.00051	0.00055	0.00039	0.00024	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00068	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	278	302	292	326	359	357	394	461	439	481	406	454	433	434	427	213	334	276
Fe-T	mg/L	1.84	1.91	1.77	2.10	2.35	2.27	2.37	2.92	3.02	3.04	3.11	3.55	3.30	3.24	3.09	2.13	2.02	2.1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	14.3	15.9	16.5	16.1	18.4	16.6	17.7	21.7	19.4	22.2	19.3	22.4	20.8	19.4	19.8	12.1	16	12.6
Mn-T	mg/L	0.211	0.241	0.265	0.327	0.347	0.368	0.398	0.489	0.505	0.542	0.541	0.628	0.584	0.583	0.604	0.530	0.267	0.255
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	4.89	5.19	5.35	5.40	6.20	5.57	5.82	6.82	6.33	6.91	6.13	6.64	6.43	6.46	6.55	4.26	5.15	4.78
S-T	mg/L	122	131	159	158	182	172	198	234	230	244	217	237	221	239	222	95.9	158	139
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00043	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	3.80	4.05	3.57	4.00	4.18	3.91	3.97	4.82	4.40	4.41	3.77	4.08	3.83	4.31	4.43	3.48	4.18	3.84
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	199	222	238	234	263	246	259	317	286	321	280	304	285	292	316	171	229	234
Sr-T	mg/L	1.23	1.34	1.49	1.49	1.81	1.56	1.66	1.98	1.97	1.90	2.02	2.29	1.92	1.80	1.92	0.987	1.41	1.34
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.00195	<0.0030	0.00187	0.00185	0.00154	0.00195	0.00188	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030	0.0036	0.0047
As-D	mg/L	0.0435	0.0483	0.0478	0.0470	0.0542	0.0500	0.0489	0.0516	0.0514	0.0525	0.0542	0.0531	0.0525	0.0520	0.0561	0.0482	0.0404	0.048
Ba-D	mg/L	0.109	0.113	0.112	0.114	0.123	0.117	0.122	0.114	0.113	0.113	0.104	0.105	0.101	0.0959	0.0935	0.0735	0.0812	0.0637
B-D	mg/L	0.870	1.02	1.03	1.04	1.01	1.05	1.17	1.21	1.13	1.19	1.10	1.25	1.17	1.13	1.30	0.999	0.984	1.04
Be-D	mg/L	<0.000010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000050	<0.000010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	92.6	90.5	94.5	110	118	119	143	150	144	142	145	150	150	149	142	68.8	103	90.7
Cr-D	mg/L	<0.00010	<0.0010	<0.00010	<0.00010	<0.00010	0.00011	0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.000153	<0.00020	0.000177	0.000209	0.000284	0.000288	0.000317	0.00036	0.00040	0.00039	0.00045	0.00047	0.00049	0.00056	0.00060	0.00039	0.00023	<0.00020
Cu-D	mg/L	0.000119	<0.00020	0.000116	0.000131	0.000103	0.000136	0.000065	<0.00020	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Hard-D	mg/L	295	294	306	344	377	377	442	462	443	448	443	475	460	457	438	219	333	286
Fe-D	mg/L	1.64	1.63	1.79	1.95	2.23	2.36	2.49	2.81	2.99	3.13	3.13	3.42	3.45	3.30	3.01	1.03	1.87	1.99
Pb-D	mg/L	<0.000050	<0.00020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	15.6	16.6	17.1	16.6	20.2	19.6	20.4	21.0	20.1	22.9	19.8	24.2	20.5	20.7	19.9	11.4	18.3	14.4
Mn-D	mg/L	0.224	0.258	0.271	0.302	0.373	0.414	0.441	0.498	0.529	0.553	0.571	0.625	0.617	0.618	0.650	0.532	0.272	0.278
Mo-D	mg/L																		

Appendix 1 - Tables

Table 37 Seepage Near QU1105 (S2US) 1 Page(s)

EMS ID												
Site Description		Seepage coming out of bank, flows making up S2B.										
Site Name		S2US										
Date		2025-04-29	2025-05-06	2025-05-12	2025-06-03	2025-06-09	2025-06-16	2025-06-23	2025-06-30	2025-07-07	2025-07-28	2025-12-09
pH-F	pH Units	7.13	7.16	7.19	6.81	6.96	7.05	6.92	7	6.71	7.07	
Cond-F	uS/cm	1955	1847	1877	2050	2140	2100	2035.5	2140	2137.6	2017	
SO4-D	mg/L	450	470	470	580	610	610	720	670	660	610	370
Turb	NTU										67	
Alk-T	mg/L	420	430	440	450	460	470	470	460	470	470	430
Acidity83	mg/L	16.0	3.4	2.9	7.4	3.8	11.3	15.8	9.8	<1.0	16.9	3.7
Cl-D	mg/L	11	10	12	11	12	11	12	11	12	13	10
DOC	mg/L	1.2	1.1	1.3	1.4	1.4	0.91	1.5	1.2	1.5	1.2	
F-D	mg/L	0.22	0.21	0.22	0.22	0.23	0.23	0.21	0.21	0.20	0.22	0.21
Al-T	mg/L	0.0132	0.0187	0.0040	0.0044	0.0067	0.0036	0.0118	<0.0030	<0.0060	0.0135	0.0118
As-T	mg/L	0.0740	0.0741	0.0662	0.0709	0.0749	0.0725	0.0755	0.0729	0.0765	0.0826	0.0753
Ba-T	mg/L	0.0917	0.0848	0.0782	0.0687	0.0651	0.0627	0.0604	0.0597	0.0544	0.0483	0.0567
B-T	mg/L	1.06	1.07	0.920	1.16	1.35	1.18	1.26	1.04	1.17	1.43	0.945
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010
Ca-T	mg/L	111	117	118	140	155	146	144	142	156	134	100
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00057	<0.00050	<0.0010	0.00054	<0.00050
Hard-T	mg/L	344	363	362	426	479	457	446	439	473	415	305
Fe-T	mg/L	3.56	3.73	3.67	4.52	5.15	4.96	5.14	5.01	5.43	4.96	2.84
Ph-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020
Mg-T	mg/L	16.0	17.5	16.4	18.6	22.0	22.2	21.3	20.7	20.6	19.5	13.4
Mn-T	mg/L	0.269	0.266	0.268	0.355	0.389	0.400	0.415	0.409	0.412	0.344	0.223
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
K-T	mg/L	5.83	6.16	5.77	6.31	6.87	6.61	6.63	6.61	7.14	6.61	5.31
S-T	mg/L	165	184	174	217	246	232	235	223	258	226	153
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010
Si-T	mg/L	4.26	4.26	4.14	4.27	4.50	4.22	4.15	3.98	4.79	4.43	4.05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020
Na-T	mg/L	251	276	256	284	332	317	311	292	323	322	245
Sr-T	mg/L	1.60	1.79	1.59	1.93	1.91	2.18	2.24	1.95	1.97	1.88	1.46
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.0056	<0.0050
Al-D	mg/L	0.00418	0.00136	0.00177	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030
As-D	mg/L	0.0731	0.0759	0.0744	0.0756	0.0744	0.0735	0.0753	0.0767	0.0720	0.0788	0.0684
Ba-D	mg/L	0.0860	0.0891	0.0844	0.0724	0.0678	0.0624	0.0606	0.0575	0.0506	0.0473	0.0557
B-D	mg/L	1.09	1.04	1.13	1.16	1.24	1.20	1.32	1.22	1.14	1.34	1.05
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010
Ca-D	mg/L	110	119	118	144	145	144	150	149	145	139	91.5
Cr-D	mg/L	<0.00010	<0.00010	0.00012	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
Co-D	mg/L	0.0000769	0.0000905	0.0000827	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020
Cu-D	mg/L	0.000140	0.000097	0.000062	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020
Hard-D	mg/L	338	375	370	439	449	442	468	454	441	424	288
Fe-D	mg/L	3.50	3.68	3.97	4.69	5.07	4.89	5.34	5.29	4.97	5.17	2.88
Ph-D	mg/L	0.0000062	0.0000057	<0.0000050	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020
Mg-D	mg/L	15.6	18.7	18.4	19.2	21.1	19.8	22.6	20.1	19.3	18.8	14.5
Mn-D	mg/L	0.244	0.273	0.282	0.370	0.388	0.391	0.434	0.393	0.382	0.352	0.236
Mo-D	mg/L	0.000323	0.000380	0.000407	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
Ni-D	mg/L	0.000119	0.000114	0.000124	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010
K-D	mg/L	5.70	6.15	6.27	6.64	6.60	6.66	6.96	6.76	6.63	6.89	5.24
S-D	mg/L	155	183	198	236	227	223	254	237	239	229	150
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010
Si-D	mg/L	4.20	4.27	4.19	4.49	4.37	4.19	4.34	4.30	4.48	4.67	4.45
Na-D	mg/L	256	273	288	292	338	306	352	293	304	334	264
Sr-D	mg/L	1.49	1.89	1.85	1.93	2.22	1.91	2.29	2.16	1.82	1.80	1.26
Zn-D	mg/L	0.00046	0.0113	0.00066	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	0.0051

Appendix 1 - Tables

Table 38 Seepage Near QU1105 (S2B) 1 Page(s)

EMS ID											
Site Description		Potential Seepage (S2B) near QU1105 entering river									
Site Name		S2B									
Date		2025-04-08	2025-04-22	2025-04-29	2025-05-12	2025-06-03	2025-06-09	2025-06-16	2025-06-23	2025-07-07	2025-07-28
Flow	m3/s	6.399	0.006191038	0.005	0.00578	0.00530303	0.00541516	0.00382792	0.00375	0.00404468	0.00182
pH-F	pH Units	7.48	7.32	7.4	7.53	7.19	7.22	7.18	7.03	6.96	7.27
Cond-F	uS/cm	1401	1751	1927	1868	1992	2020	2070	1992.6	2099.2	1960
SO4-D	mg/L	320	400	450	480	610	610	560	700	640	560
Turb	NTU										19
Alk-T	mg/L	360	400	410	430	440	440	450	450	450	430
Acidity83	mg/L	1.9	4.3	10.7	4.4	3.4	<1.0	7.2	10.3	5.8	10.5
Cl-D	mg/L	9.2	12	12	13	11	11	11	11	11	13
DOC	mg/L	1.5	1.2	1.3	1.4	1.5	1.3	1.1	1.3	1.4	1.4
F-D	mg/L	0.21	0.21	0.21	0.21	0.20	0.21	0.22	0.098	0.20	0.22
Al-T	mg/L	0.0101	0.0061	0.0062	0.0043	0.0046	<0.0030	0.0202	0.0472	<0.0060	<0.0030
As-T	mg/L	0.0480	0.0436	0.0453	0.0439	0.0468	0.0416	0.0504	0.0539	0.0499	0.0410
Ba-T	mg/L	0.106	0.117	0.125	0.121	0.118	0.108	0.111	0.113	0.100	0.0912
B-T	mg/L	0.727	0.940	0.929	0.895	1.04	0.927	1.07	1.14	1.09	1.24
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010
Ca-T	mg/L	90.5	93.6	116	131	151	148	158	155	160	132
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Co-T	mg/L	0.00024	0.00027	0.00033	0.00041	0.00050	0.00052	0.00053	0.00061	0.00059	0.00050
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050
Hard-T	mg/L	288	309	364	407	464	460	494	486	493	417
Fe-T	mg/L	1.64	1.52	1.81	2.08	2.74	2.44	3.10	3.36	3.20	2.19
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020
Mg-T	mg/L	14.9	18.3	18.1	19.3	20.9	21.8	24.2	24.1	22.6	21.2
Mn-T	mg/L	0.233	0.310	0.353	0.394	0.475	0.485	0.542	0.590	0.529	0.459
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
K-T	mg/L	4.55	5.24	5.31	5.54	5.81	5.93	6.01	6.26	6.55	5.81
S-T	mg/L	119	169	169	189	223	224	231	241	258	210
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
Si-T	mg/L	3.76	3.55	4.15	4.17	4.21	4.62	4.16	4.17	4.58	4.13
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020
Na-T	mg/L	187	229	235	254	269	282	292	291	297	286
Sr-T	mg/L	1.19	1.62	1.65	1.72	2.04	1.87	2.26	2.38	2.00	1.85
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Al-D	mg/L	0.00227	0.00181	0.00170	0.00146	<0.0030	<0.0030	<0.0030	<0.0030	<0.0060	<0.0030
As-D	mg/L	0.0379	0.0412	0.0443	0.0420	0.0459	0.0450	0.0445	0.0444	0.0458	0.0376
Ba-D	mg/L	0.109	0.117	0.123	0.122	0.118	0.115	0.109	0.109	0.0931	0.0912
B-D	mg/L	0.811	0.941	0.982	1.02	1.08	1.10	1.03	1.20	1.07	1.21
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.00020	<0.000010
Cd-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010
Ca-D	mg/L	94.9	96.9	117	126	154	154	156	161	152	138
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Co-D	mg/L	0.000248	0.000258	0.000331	0.000387	0.00050	0.00050	0.00055	0.00053	0.00055	0.00055
Cu-D	mg/L	0.000104	0.000082	0.000094	0.000076	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020
Hard-D	mg/L	304	317	368	399	474	479	481	508	469	432
Fe-D	mg/L	1.22	1.42	1.67	1.92	2.62	2.77	2.69	2.97	2.92	2.08
Pb-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020
Mg-D	mg/L	16.2	18.2	18.5	20.6	21.7	22.8	22.0	25.5	21.8	21.0
Mn-D	mg/L	0.249	0.308	0.334	0.421	0.495	0.509	0.526	0.553	0.504	0.459
Mo-D	mg/L	0.000225	0.000268	0.000279	0.000403	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Ni-D	mg/L	0.000083	0.000053	0.000060	0.000090	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
K-D	mg/L	4.95	5.33	5.19	5.80	6.10	6.02	5.97	6.30	6.20	6.18
S-D	mg/L	130	171	166	202	235	228	226	246	244	218
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
Si-D	mg/L	4.05	3.58	4.19	4.00	4.37	4.19	4.31	4.21	4.44	4.37
Na-D	mg/L	202	232	250	270	278	308	284	315	289	294
Sr-D	mg/L	1.30	1.59	1.63	1.89	2.00	2.25	2.01	2.33	1.84	1.80
Zn-D	mg/L	0.00423	0.00146	0.00052	0.00092	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050

Appendix 1 - Tables

Table 39 No Name Lake Depth Profile 1 Page(s)

EMS ID: E217018 Site NAME: NO NAME LAKE (NNL)																														
NO NAME LAKE DEPTH PROFILING SPRING																														
Sample Date Parameter Sample Depth (m)	09-Apr						16-Apr						23-Apr						30-Apr						06-May					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	*ORP mV
1	8.7	6.37	27.2	95.1	11.09	132.7	9.6	6.39	30.2	97.1	11.07	150.2	9.6	6.39	30.2	97.1	11.07	150.2	13.7	6.65	28.4	97.8	10.16	159.2	14.7	7.03	32.1	100.5	10.19	135.2
	8.4	6.34	27.2	95.6	11.08	135.0	9.0	6.45	30.5	95.9	11.10	152.5	9.0	6.45	30.5	95.9	11.10	152.5	13.6	6.67	28.5	97.3	10.13	160.1	14.7	6.99	32.1	100.1	10.16	139.9
2	8.2	6.33	27.5	94.2	11.08	135.9	8.4	6.51	30.4	94.9	11.09	150.2	8.4	6.51	30.4	94.9	11.09	150.2	11.3	6.66	27.4	99.1	10.85	160.8	12.3	6.97	32.0	100.1	10.74	137.5
	7.3	6.32	27.6	92.5	11.15	135.2	7.5	6.42	30.6	92.4	11.02	153.2	7.5	6.42	30.6	92.4	11.02	153.2	8.7	6.58	27.1	96.5	11.22	165.0	9.6	6.91	30.4	99.6	11.38	139.6
3	6.1	6.27	28.4	89.6	11.15	137.2	6.6	6.42	31.1	89.7	11.00	153.3	6.6	6.42	31.1	89.7	11.00	153.3	7.4	6.53	27.3	93.1	11.22	165.8	7.6	6.86	30.4	93.8	11.24	142.2
	5.6	6.24	28.9	87.8	11.05	138.3	6.2	6.42	31.5	88.3	10.94	154.0	6.2	6.42	31.5	88.3	10.94	154.0	6.7	6.47	28.0	89.2	10.97	168.6	6.7	6.78	31.1	89.9	10.94	144.6
4	5.4	6.13	29.2	87.0	11.00	143.9	5.9	6.38	31.8	87.1	10.87	156.3	5.9	6.38	31.8	87.1	10.87	156.3	6.0	6.40	28.5	86.0	10.71	172.2	6.0	6.70	31.5	86.1	10.71	147.4
	5.3	6.08	29.3	86.8	10.99	145.7	5.8	6.30	31.9	86.8	10.86	163.4	5.8	6.30	31.9	86.8	10.86	163.4	5.8	6.31	28.7	84.5	10.59	175.8	5.8	6.62	32.0	83.8	10.49	149.6
5	5.3	6.07	29.2	86.8	10.99	146.7	5.7	6.31	32.1	86.6	10.85	158.8	5.7	6.31	32.1	86.6	10.85	158.8	5.7	6.27	28.9	83.9	10.54	177.1	5.7	6.53	32.1	83.1	10.42	153.4
	5.2	6.06	29.5	86.6	10.98	146.6	5.7	6.24	32.1	86.4	10.84	163.2	5.7	6.24	32.1	86.4	10.84	163.2	5.6	6.23	29.1	83.3	10.48	179.4	5.6	6.50	32.3	82.8	10.38	154.6
6	5.2	6.07	29.6	86.4	10.98	146.6	5.6	6.25	32.4	86.2	10.83	162.8	5.6	6.25	32.4	86.2	10.83	162.8	5.5	6.22	29.1	83.0	10.46	179.7	5.6	6.45	32.3	82.5	10.38	157.5
	5.1	6.08	29.8	86.1	10.95	146.1													5.5	6.17	29.2	82.7	10.43	182.6						
1m from Bottom (1MB)	1MB = 12.0m						1MB = 11.0m						1MB = 11.0m						1MB = 12.0m						1MB = 11.0m					

Appendix 1 - Tables

Table 40 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619

SITE NAME: LONG LAKE (LLM)

LONG LAKE DEPTH PROFILING SPRING																															
Sample Date Parameter Sample Depth (m)	09-Apr						16-Apr						23-Apr						30-Apr						06-May						
	Temp. Celsius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celsius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celsius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celsius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celsius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	
1	8.95	6.64	91.90	96.50	11.17	144.70	9.38	6.30	118.10	96.40	11.05	163.60	11.43	6.44	126.20	100.20	10.94	182.50	13.44	6.63	116.80	98.70	10.29	187.30	14.17	6.97	140.80	99.90	10.26	149.30	
2	8.89	6.64	94.80	96.40	11.16	145.30	9.15	6.41	122.30	96.50	11.11	162.30	11.16	6.57	126.90	99.70	10.94	179.10	13.25	6.43	116.90	98.40	10.30	185.80	14.12	6.98	140.70	99.70	10.24	149.10	
3	6.60	6.57	204.10	88.80	10.86	150.00	9.07	6.51	122.20	96.20	11.10	160.00	9.85	6.57	180.40	97.90	11.09	179.30	11.19	6.49	159.90	97.30	10.69	186.10	12.24	6.94	171.60	98.70	10.56	150.70	
4	5.61	6.65	238.50	78.50	9.86	147.30	6.71	6.48	237.30	85.50	10.41	163.40	7.46	6.64	241.90	87.20	10.48	177.70	8.44	6.54	199.40	91.40	10.70	185.70	9.01	6.87	220.30	93.80	10.82	153.40	
5	5.09	6.64	250.40	72.20	9.17	147.40	5.57	6.53	262.40	76.20	9.55	162.40	6.07	6.64	267.50	78.10	9.63	178.00	6.74	6.56	225.90	82.40	10.05	185.70	7.34	6.84	246.00	84.00	10.10	155.60	
6	4.97	6.63	253.40	70.20	8.95	147.50	5.24	6.55	268.20	72.00	9.11	161.00	5.31	6.62	276.60	71.90	9.09	177.90	5.62	6.56	237.20	73.10	9.17	185.20	6.05	6.77	260.30	73.70	9.17	157.40	
7	4.85	6.62	254.30	68.70	8.82	147.50	5.06	6.57	273.10	69.10	8.78	-0.08	5.10	6.61	280.50	69.20	8.79	177.60	5.25	6.57	239.10	68.90	8.72	184.10	5.49	6.71	264.70	68.60	8.64	159.40	
8	4.80	6.62	256.50	68.00	8.73	147.30	4.98	6.58	274.60	67.30	8.60	159.60	4.99	6.60	282.60	67.50	8.61	177.80	5.10	6.56	242.50	66.40	8.44	184.20	5.24	6.65	267.10	65.90	8.36	162.00	
9	4.76	6.62	257.00	67.20	8.62	147.30	4.91	6.56	277.20	65.90	8.43	159.80	4.95	6.58	284.50	65.90	8.42	177.80	5.02	6.54	243.40	64.70	8.24	184.10	5.10	6.63	268.20	65.10	8.28	163.10	
10	4.75	6.61	259.30	66.00	8.47	147.40	4.86	6.58	278.90	65.20	8.35	159.10	4.90	6.56	284.60	65.60	8.39	178.20	4.97	6.54	243.70	64.00	8.17	184.10	4.98	6.61	269.50	63.60	8.08	164.10	
11	4.73	6.60	260.30	65.50	8.41	147.50	4.82	6.58	278.50	64.90	8.32	158.90	4.85	6.57	285.20	64.80	8.30	177.70	4.92	6.52	244.10	63.80	8.16	184.50	4.95	6.60	269.20	63.80	8.15	164.70	
12	4.70	6.60	260.70	65.00	8.35	147.50	4.79	6.58	279.90	64.60	8.28	159.40	4.83	6.56	285.70	64.90	8.32	177.90	4.87	6.52	244.40	63.60	8.15	184.40	4.89	6.59	269.70	63.40	8.11	165.20	
13	4.67	6.59	260.90	64.40	8.28	147.60	4.75	6.57	280.50	63.50	8.16	159.50	4.79	6.55	178.10	63.90	8.19	178.20	4.83	6.52	245.40	62.20	7.96	184.50	4.88	6.59	270.70	61.70	7.88	165.40	
14	4.67	6.60	261.30	63.70	8.20	147.20	4.74	6.56	280.00	63.10	8.10	159.80	4.78	6.54	287.50	62.40	8.01	178.60	4.79	6.51	245.90	61.90	7.82	184.60	4.83	6.58	271.60	60.10	7.71	165.40	
15	4.67	6.59	261.70	63.20	8.13	147.50	4.71	6.57	281.30	62.70	8.05	159.60	4.74	6.53	287.90	62.00	7.96	178.70	4.77	6.50	246.30	60.00	7.70	184.20	4.80	6.58	271.60	59.60	7.65	165.50	
16	4.67	6.59	261.80	62.80	8.08	147.60	4.71	6.57	281.50	62.10	7.99	159.20	4.73	6.53	288.30	61.10	7.85	178.60	4.75	6.50	246.50	59.00	7.58	184.30	4.78	6.58	272.00	59.10	7.58	165.40	
17	4.66	6.58	261.90	62.30	8.01	147.50	4.70	6.57	281.80	61.60	7.92	159.30	4.73	6.53	288.10	60.90	7.82	178.50	4.75	6.49	246.60	58.30	7.49	184.10	4.76	6.58	272.40	57.50	7.43	165.50	
18	4.66	6.58	262.10	62.00	7.97	147.50	4.70	6.57	282.30	60.60	7.79	159.30	4.73	6.53	288.30	60.60	7.78	178.50	4.74	6.49	246.70	57.90	7.44	184.20	4.76	6.58	272.60	56.30	7.21	165.40	
19	4.66	6.58	262.30	61.50	7.92	147.80	4.69	6.57	282.20	60.20	7.73	159.10	4.73	6.53	288.60	60.10	7.73	178.40	4.75	6.49	246.70	57.60	7.39	183.90	4.75	6.57	272.60	55.70	7.15	165.50	
20	4.66	6.57	261.90	61.30	7.89	147.80	4.69	6.57	282.20	59.60	7.67	159.00	4.72	6.53	288.70	59.70	7.67	178.30	4.74	6.49	246.80	57.40	7.38	183.90	4.76	6.58	272.50	55.50	7.13	165.40	
1m from Bottom (1MB)		1MB = 20m						1MB = 20m						1MB = 20m						1MB = 20m						1MB = 20m					

Appendix 1 - Tables

Table 40 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619																														
SITE NAME: LONG LAKE (LLM)																														
LONG LAKE DEPTH PROFILING SUMMER																														
Sample Date	09-Jul						16-Jul						23-Jul						29-Jul						06-Aug					
	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP
Sample Depth (m)	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV
1	22.0	7.31	163.4	100.8	8.81	116.7	23.416	7.34	168.8	100	8.54	148.7	23.2	8.04	165.6	99.3	8.48	121.5	22.5	7.55	168.6	96.8	8.40	205.4	22.4	7.58	186.7	99.4	8.62	199.8
2	21.6	7.30	163.1	99.8	8.79	115.5	22.892	7.36	168.6	99.8	8.5	147.4	23.2	8.04	165.7	99.1	8.47	120.7	22.4	7.55	168.9	96.7	8.38	205.8	22.3	7.58	186.8	98.7	8.57	203.2
3	21.1	7.30	164.4	99.1	8.81	116.7	22.038	7.38	175.3	96.5	8.43	148.5	22.8	8.09	167.4	98.3	8.45	120.3	22.4	7.55	168.9	96.5	8.37	205.6	22.2	7.61	186.6	98.2	8.54	203.3
4	17.4	7.27	189.1	98.4	9.48	118.2	19.504	7.38	183	98.1	8.97	148.6	20.3	8.29	181.5	98.1	9.44	122.6	22.4	7.56	163.5	96.3	8.35	205.8	22.1	7.58	186.9	97.5	8.52	204.7
5	12.5	7.20	244.5	93.2	9.91	121.8	13.55	7.49	246.2	93.2	9.79	151.7	13.2	8.29	237.4	97.2	10.20	127.5	15.7	7.23	227.3	85.5	8.85	206.3	15.3	7.33	251.2	100.9	10.17	206.0
6	9.6	7.17	256.9	85.3	9.61	126.1	10.35	7.51	257.4	85.1	9.41	151.5	9.7	8.31	246.6	82.9	9.43	132.6	11.2	7.16	242.6	88.4	9.72	206.1	10.7	7.24	259.5	91.8	10.18	205.2
7	7.5	7.14	260.2	72.8	8.69	124.7	7.755	7.45	263	72.6	8.6	151.3	7.6	8.38	249.9	69.0	8.23	133.0	8.1	7.08	245.1	61.2	7.31	205.8	8.3	7.11	263.7	73.2	8.56	204.6
8	6.4	7.11	263.0	63.7	7.79	126.3	6.514	7.4	266.2	65.6	8.03	151.7	6.4	8.27	252.0	60.2	7.40	133.1	6.8	7.02	248.2	55.4	6.78	204.7	6.8	7.03	265.9	61.9	7.51	205.1
9	5.8	7.07	262.7	61.0	7.61	127.6	5.97	7.35	265.1	61.2	7.62	152.2	6.0	8.17	251.6	58.7	7.30	134.2	6.0	6.97	247.8	52.3	6.51	204.9	6.2	6.98	266.1	56.7	7.01	204.5
10	5.6	7.01	264.1	57.7	7.24	130.1	5.554	7.29	267.6	56.4	7.04	152.3	5.6	8.11	251.4	56.7	7.10	135.5	5.7	6.92	248.5	48.8	6.12	205.1	5.8	6.93	265.7	55.2	6.89	203.8
11	5.5	6.95	265.1	54.0	6.73	132.0	5.467	7.26	267.3	54.1	6.83	152	5.5	8.08	251.8	55.3	6.96	136.1	5.5	6.89	249.1	47.8	6.98	203.3	5.7	6.89	267.4	50.4	6.28	204.5
12	5.3	6.94	265.2	51.7	6.53	132.3	5.319	7.23	267.4	53.2	6.73	152.2	5.4	8.06	253.3	50.9	6.36	136.6	5.5	6.86	249.6	43.9	5.48	203.8	5.5	6.86	266.8	49.7	6.26	204.0
13	5.3	6.91	265.4	50.2	6.34	132.8	5.243	7.2	267.8	51.2	6.45	152.5	5.3	8.03	253.2	47.7	6.03	137.1	5.2	6.86	250.0	41.9	5.31	202.4	5.4	6.84	267.4	46.0	5.81	204.7
14	5.2	6.90	265.2	49.2	6.24	132.6	5.2	7.18	267	49.1	6.22	152	5.2	8.02	253.1	46.8	5.92	137.5	5.1	6.82	250.1	42.4	5.39	203.1	5.3	6.81	267.4	43.5	5.50	205.0
15	5.1	6.88	265.2	47.8	6.06	133.9	5.187	7.14	267.7	45.9	5.82	153.1	5.1	8.00	253.3	43.9	5.52	138.1	5.1	6.80	250.4	40.6	5.16	202.1	5.2	6.79	267.5	41.3	5.24	205.3
16	5.0	6.85	265.7	45.7	6.85	134.4	5.024	7.1	268.9	43	5.43	153.6	5.1	7.94	253.2	42.4	5.39	139.1	5.1	6.77	250.8	34.2	4.21	202.2	5.1	6.78	267.9	38.5	4.89	205.5
17	5.0	6.84	265.9	42.8	5.43	134.4	4.993	7.07	269.1	38.5	4.89	154	5.0	7.93	253.7	37.7	4.78	139.7	5.0	6.75	250.9	32.7	4.19	202.4	5.1	6.75	268.1	35.7	4.52	205.2
18	5.0	6.82	266.1	40.0	5.10	134.9	4.981	7.04	269.3	35.4	4.51	154.5	5.0	7.91	254.0	34.5	4.36	140.0	5.0	6.75	251.3	30.2	3.81	202.4	5.1	6.75	268.3	32.6	4.14	204.9
19	5.0	6.80	266.4	37.0	4.71	135.5	4.98	7	269.3	32.6	4.16	155.5	5.0	7.88	254.4	32.1	4.09	140.4	5.0	6.74	251.3	29.0	3.69	202.2	5.0	6.73	268.5	30.0	3.81	205.0
20																														
1m from Bottom (1MB)						1MB=19.0m						1MB=19.0m						1MB=19.0m						1MB=19.0m						

Appendix 1 - Tables

Table 40 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619																														
SITE NAME: LONG LAKE (LLM)																														
LONG LAKE DEPTH PROFILING FALL																														
Sample Date	07-Oct						15-Oct						22-Oct						29-Oct						06-Nov					
	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP
Sample Depth (m)	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV
1	14.30	6.82	195.40	91.50	9.36	23.00	11.70	6.84	153.40	72.00	8.05	68.10	10.50	7.40	177.00	78.00	8.63	17.90	8.70	6.79	29.00	104.10	12.11	59.00	7.53	6.77	62.30	88.30	10.58	227.40
2	14.3	6.86	194.60	91.2	9.33	26.5	11.7	6.93	153.50	72.3	7.9	69.9	10.6	7.35	178.00	80.3	8.88	19.8	8.6	6.77	28.80	86.6	10.06	62	7.5	6.77	63.40	88.1	10.55	226.2
3	14.3	6.95	193.50	90.8	9.3	32.8	11.7	6.98	153.60	73	7.89	72.1	10.6	7.39	178.40	76	8.54	27.2	8.6	6.77	28.90	84.6	9.98	68.9	7.6	6.76	72.70	87.7	10.49	226.4
4	14.30	6.99	193.10	90.60	9.30	34.60	11.70	7.02	153.10	71.10	7.67	73.20	10.50	7.36	179.50	79.20	8.73	29.20	8.6	6.79	29.60	84.6	9.83	67.5	7.7	6.77	84.70	87.4	10.42	226.8
5	14.20	6.99	193.10	90.70	9.29	35.60	11.70	7.04	153.10	71.80	7.76	72.90	10.50	7.38	179.40	79.10	8.84	29.70	8.60	6.76	31.90	83.30	9.67	68.20	7.71	6.78	91.90	86.60	10.32	226.20
6	11.25	7.01	194.70	90.2	9.25	37.4	11.7	7.06	153.80	73.1	7.77	73.9	10.5	7.36	180.20	79.2	8.84	30.9	8.7	6.74	34.20	87.2	9.67	71.2	7.8	6.77	118.90	87	10.37	228
7	11.26	6.71	252.50	74.2	8.1	35.5	11.7	7.09	153.20	72.1	7.83	73.5	10.5	7.35	184.10	78.1	8.64	32.5	8.8	6.69	53.50	76.2	8.81	72.8	7.9	6.81	151.20	85.5	10.12	228
8	7.46	6.90	255.80	50.8	6.1	41.2	8.9	6.8	205.00	49.7	5.75	70.5	10.3	7.28	238.10	55.1	6.12	30	8.6	6.74	57.90	73.2	8.54	75.3	7.8	6.83	161.20	83	9.85	228
9	6.982	6.95	256.70	49.6	5.96	41.5	7.1	6.75	205.00	44	5.35	68.5	8.4	7.13	248.70	49.9	5.8	30	8.4	6.71	69.10	60.9	6.96	76.7	7.838	6.79	180.30	77.4	9.17	229.1
10	6.412	6.91	256.20	46.5	5.72	41.6	6.5	6.71	205.10	39.6	4.85	67.2	6.7	7.09	250.10	42	5.03	29.6	7.3	6.66	77.00	40.9	5.27	75.4	7.667	6.72	209.30	68.7	8.1	230.5
11	6.089	6.74	257.20	42.5	5.24	42	6.1	6.67	207.40	34.6	4.3	64.8	6.2	7.04	251.00	37.3	4.57	28.6	6.4	6.62	78.80	37.7	4.56	76.8	6.988	6.62	254.70	42	5.05	233.9
12	5.804	6.66	256.90	38.4	4.81	37.4	5.8	6.65	207.30	34.1	4.25	64.2	6	7.01	249.80	38.1	4.73	26.6	6.1	6.59	78.80	36	4.44	76	6.481	6.59	261.20	37.7	4.62	234.1
13	5.69	6.60	257.10	36.2	4.52	38.2	5.6	6.62	209.70	30.4	3.82	63.9	5.7	6.98	250.60	34.6	4.3	25.1	5.8	6.60	78.80	34.4	4.28	74.9	6.075	6.59	262.00	35.9	4.45	234.1
14	5.557	6.57	257.10	33.5	4.2	32.2	5.4	6.6	212.70	29.8	3.77	62.9	5.5	6.96	251.00	29.8	3.73	22.8	5.7	6.59	78.80	31.8	3.96	75.7	5.9	6.58	262.40	31.8	3.96	234.4
15	5.487	6.53	257.50	31.8	3.99	28.8	5.3	6.59	213.10	26	3.28	62.2	5.4	6.91	251.90	25.4	3.22	22.5	5.5	6.58	79.00	27.8	3.49	75.6	5.59	6.57	260.50	27.8	3.47	234.4
16	5.31	6.51	258.20	22.9	2.90	23.8	5.3	6.57	213.60	22.3	2.83	62	5.3	6.87	252.70	22.1	2.78	21.1	5.3	6.56	79.10	23.4	2.94	75.4	5.507	6.56	260.90	24.8	3.09	234.8
17	5.238	6.51	258.30	19.9	2.51	22.1	5.2	6.57	213.80	19.5	2.46	61.9	5.2	6.84	253.40	16.3	2.05	20.1	5.3	6.55	79.30	20.1	2.51	74.9	5.383	6.54	261.90	19.3	2.43	234.3
18	5.205	6.51	259.30	14.3	1.8	19.7	5.2	6.56	214.20	17	2.16	61	5.2	6.80	254.40	11.5	1.46	18.5	5.2	6.56	79.30	16.8	2.11	73.9	5.345	6.53	262.60	12.5	1.6	234.2
19	5.201	6.5	259.9	12.3	1.54	18.2	5.2	6.55	214.7	14.6	1.86	60.7	5.2	6.79	255.10	9.7	1.23	17.4	5.2	6.54	79.50	11.4	1.43	72.6	5.298	6.51	263.60	9.1	1.14	233.6
20	5.193	6.5	261	8.6	1.08	15.4	5.1	6.54	215.6	10.8	1.38	59.7	5.1	6.77	255.10	8.9	1.11	12	5.2	6.53	79.70	8.8	1.12	71.3	5.285	6.5	263.90	7.3	0.91	233.7
1m from Bottom (1MB)						1MB = 20.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m						

Appendix 1 - Tables

Table 41 MQL Depth Profile 3 Page(s)

EMS ID E206618																														
SITE NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SPRING																														
Sample Date Parameter Sample Depth (m)	09-Apr						16-Apr						23-Apr						30-Apr						06-May					
	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV
1	9.3	6.93	112.1	97.7	11.22	133.4	10.5	6.95	113.2	100.3	11.18	133.4	11.8	6.55	99.2	101.7	11.00	167.2	14.2	6.96	66.2	100.5	10.33	147.2	14.8	7.04	69.7	100.6	10.19	178.2
2	9.2	6.98	112.3	97.4	11.21	132.8	10.2	6.96	113.2	100.0	11.23	134.3	11.7	6.75	98.4	102.3	11.10	165.6	14.0	6.97	64.2	100.1	10.32	149.3	14.7	7.03	69.6	100.7	10.22	179.6
3	9.1	7.01	112.3	97.1	11.19	132.4	9.9	7.05	113.5	99.6	11.26	133.2	11.2	6.81	94.9	102.2	11.23	165.1	13.4	7.01	67.2	102.3	10.71	148.8	14.5	7.05	69.3	100.4	10.25	177.1
4	8.6	7.05	111.2	97.9	11.42	132.2	9.7	7.05	110.5	98.9	11.25	135.0	10.8	6.84	97.6	102.8	11.38	165.1	11.9	7.07	72.5	102.6	11.07	150.0	13.4	7.04	74.9	101.0	10.55	177.3
5	7.8	7.07	107.6	97.6	11.61	131.2	9.1	7.1	114.7	98.5	11.33	133.0	9.9	6.89	113.8	103.2	11.69	163.8	10.8	7.11	89.4	104.6	11.57	151.4	11.3	7.06	94.5	106.8	11.57	179.2
6	7.4	7.08	105.9	96.9	11.65	130.9	8.4	7.1	115.4	97.5	11.44	134.7	9.1	6.98	117.4	102.4	11.81	163.3	9.7	7.14	98.6	103.9	11.78	151.2	10.3	7.10	107.8	105.8	11.85	179.2
7	7.1	7.08	104.5	96.1	11.63	131.1	7.7	7.12	114.5	96.6	11.54	132.9	8.3	6.98	117.3	101.2	11.90	162.8	8.7	7.15	100.7	102.2	11.90	152.1	8.8	7.09	111.2	103.1	11.96	180.4
8	6.6	7.04	102.3	95.1	11.64	132.9	7.1	7.12	112.6	95.9	11.62	133.1	7.5	6.97	117.8	99.1	11.98	162.6	7.9	7.14	100.2	100.1	11.88	152.8	8.2	7.06	111.7	101.4	11.93	181.7
9	6.4	7.06	101.7	93.9	11.56	131.4	6.7	7.12	112.7	94.3	11.52	132.6	7.0	6.93	116.8	96.3	11.69	163.8	7.3	7.12	100.6	97.6	11.75	154.1	7.7	7.04	111.1	99.9	11.91	182.8
10	6.3	7.06	104.4	92.8	11.47	132.1	6.5	7.09	112.8	93.3	11.45	134.5	6.8	6.92	117.4	94.9	11.57	164.0	7.0	7.06	101.4	93.4	11.32	155.9	7.2	7.00	112.4	96.8	11.68	185.6
11	6.0	7.01	106.7	90.4	11.24	133	6.4	7.05	114.9	91.2	11.24	135.1	6.5	6.90	118.8	91.9	11.26	163.5	6.8	7.03	102.1	91.6	11.14	156.5	7.0	6.96	113.7	93.0	11.27	185.1
12	6.0	7.00	108.7	89.5	11.15	133.3	6.3	7.04	115.4	90.1	11.12	134.7	6.5	6.88	119.1	90.9	11.15	163.8	6.7	7.02	102.4	89.8	10.98	156.6	6.9	6.93	114.5	89.5	10.89	185.1
13	6.0	6.99	109.9	89.1	11.10	133.4	6.2	7.00	116.1	88.9	10.99	136.6	6.5	6.85	119.9	89.3	10.98	164.3	6.7	6.99	103.1	87.7	10.74	157.7	6.9	6.88	115.0	87.5	10.65	186.2
14							6.2	6.97	119.6	86.7	10.70	138.0																		
1m from Bottom (BS)	BS=13.0m						BS=14.0m						BS=14.0m						BS=13.0m						BS=13.0m					

Appendix 1 - Tables

Table 41 MQL Depth Profile 3 Page(s)

EMS ID E206618																														
SITE NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SUMMER																														
Sample Date	09-Jul						16-Jul						22-Jul						29-Jul						06-Aug					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	Celsius		µS/cm		mg/L		Celsius		µS/cm		mg/L		Celsius		µS/cm		mg/L		Celsius		µS/cm		mg/L		Celsius		µS/cm		mg/L	
1	22.0	7.42	177.8	106.2	9.29	122.0	23.7	7.76	193.4	108.4	9.17	145.5	24.3	8.22	191.8	110.3	9.27	97.7	23.7	7.95	210.3	83.9	7.00	182.2	23.0	7.98	220.7	104.8	8.99	216.4
2	22.0	7.42	177.7	106.0	9.27	121.1	24.4	7.77	196.0	107.9	9.18	143.5	24.2	8.27	191.8	110.2	9.24	95.6	23.6	7.98	210.0	80.4	6.97	182.1	22.9	7.98	221.5	104.3	8.96	215.9
3	21.9	7.48	177.7	105.5	9.25	118.2	23.1	7.78	193.8	108.2	9.26	143.1	23.6	8.27	189.9	109.0	9.23	95.0	23.6	7.98	209.5	83.0	7.09	182.4	22.9	7.98	221.8	104.0	8.94	214.9
4	20.7	7.53	158.4	108.4	9.74	117.5	22.8	7.76	194.4	107.2	9.24	143.5	23.5	8.27	189.5	108.5	9.22	95.8	23.5	7.97	210.2	80.6	6.89	181.7	22.9	7.99	221.9	103.6	8.90	213.7
5	19.1	7.55	130.3	108.8	10.10	114.0	21.9	7.80	171.4	111.1	9.76	141.3	23.2	8.25	192.0	109.7	9.38	94.1	23.4	7.98	197.5	93.6	8.05	182.3	22.8	7.97	218.7	103.4	8.89	213.1
6	15.8	7.63	103.6	125.4	12.40	111.9	20.1	7.86	134.0	111.6	10.11	139.5	21.0	8.35	128.7	118.3	10.55	93.5	22.9	8.10	106.0	98.4	11.27	180.0	22.5	7.95	206.7	105.6	9.13	214.0
7	13.2	7.72	111.2	127.0	13.34	111.5	17.1	7.94	107.5	129.6	12.51	138.9	17.9	8.55	103.5	137.2	13.05	95.0	18.8	8.63	109.7	105.5	12.44	171.6	20.2	8.16	116.2	135.7	12.29	211.4
8	13.0	7.77	110.8	127.9	13.47	111.4	14.2	8.07	112.4	132.9	13.72	138.8	14.9	8.94	106.8	142.3	14.39	90.3	15.5	8.63	110.7	111.0	11.80	175.0	16.2	8.67	113.6	148.4	14.60	203.9
9	11.4	7.77	111.5	119.5	13.07	112.8	9.8	7.93	117.8	91.8	10.44	142.0	12.2	9.05	107.1	128.5	13.79	92.7	13.0	8.17	113.5	88.1	9.87	178.6	13.4	8.51	113.8	135.5	14.15	205.9
10	10.0	7.67	113.9	103.3	11.65	115.1	9.4	7.83	119.0	85.7	9.79	143.7	10.8	8.86	109.4	109.9	12.17	98.1	11.3	7.88	115.5	80.3	9.04	180.9	11.7	7.79	116.2	112.1	12.20	210.4
11	9.3	7.57	116.2	91.9	10.50	118.4	9.3	7.78	119.7	82.5	9.44	143.7	10.0	8.56	111.4	93.7	10.57	102.4	10.3	7.65	117.4	71.5	8.10	182.3	10.6	7.49	118.8	90.0	10.02	212.5
12	9.1	7.52	117.6	86.0	9.89	119.7	9.2	7.73	119.8	80.1	9.16	144.1	9.7	8.40	112.7	86.8	9.89	103.0	9.9	7.48	117.8	64.0	7.30	183.5	10.1	7.34	121.3	79.1	8.91	213.4
13	9.0	7.37	118.1	80.2	9.25	125.3	9.2	7.67	120.5	77.8	8.81	144.5	9.5	8.22	113.6	80.4	9.17	110.7	9.7	7.35	118.5	61.9	7.02	184.4	9.9	7.22	122.0	72.3	8.18	213.3
1m from Bottom (BS)	BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m					

Appendix 1 - Tables

Table 41 MQL Depth Profile 3 Page(s)

EMS ID E206618																														
SITE NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING FALL																														
Sample Date Parameter Sample Depth (m)	07-Oct						16-Oct						21-Oct						30-Oct						04-Nov					
	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	14.84	7.25	111.5	92.9	9.4	-125.3	12.4	7.15	86.6	74.2	7.9	36.6	11.4	7.00	96	73.3	8.02	106.3	9.57	7.36	78.8	87	9.92	221.6	9.275	7.01	51.1	91.2	10.47	220.6
2	14.705	7.28	112.1	92.1	9.35	-117.6	12.4	7.18	87.4	74.5	7.93	37.9	11.4	7.00	96	74.2	8.04	107.9	9.59	7.23	77.4	87.8	10	236.3	9.272	7.00	49.6	91	10.45	218.6
3	14.683	7.28	112	91.8	9.32	-114.9	12.4	7.22	87.5	72.1	7.81	42.1	11.4	7.02	95.6	73	7.98	106.6	9.58	7.29	79.6	87.4	9.96	232.7	9.267	6.95	50.1	91.1	10.45	218.3
4	14.689	7.31	112.1	91.6	9.32	-101.6	12.4	7.23	87	73.3	7.86	45	11.4	7.02	95.8	72	7.88	106.7	9.57	7.3	77.2	87.2	9.94	231.8	9.266	6.95	50.2	91.1	10.46	215.9
5	14.67	7.3	112	91.6	9.3	-98.9	12.4	7.26	86.9	72.2	7.77	50	11.4	7.00	95.8	73.4	8.02	107	9.57	7.35	78.2	87.1	9.93	220.2	9.274	6.91	50.7	91.1	10.46	216.6
6	14.67	7.28	112	91.6	9.3	-96.6	12.4	7.24	87.1	70.8	7.6	51.9	11.4	7.00	95.4	74.1	8.06	107	9.57	7.35	79	87.2	9.94	219.1	9.293	6.87	54.3	90.5	10.39	215.9
7	14.67	7.27	112	91.5	9.3	-93	12.4	7.26	87	70.5	7.52	53.1	11.4	7.00	95.8	74	8.07	107	9.56	7.35	78.3	87.2	9.95	218.2	9.294	6.89	54.5	90.3	10.36	214.1
8	14.64	7.27	112	91.6	9.31	-93.6	12.3	7.27	87.6	70.9	7.66	55.5	11.4	7.00	96	73.6	8.06	107.4	9.57	7.35	78	87.2	9.95	217.1	9.324	6.87	63.2	89	10.2	212.8
9	14.61	7.25	112	91.7	9.33	-85.1	12.3	7.3	87.2	71.1	7.74	55.8	11.4	7.02	95.1	73.6	8.05	107.5	9.56	7.35	81.6	87.3	9.95	216.5	9.241	6.84	63.6	89	10.22	214.1
10	14.567	7.24	112.6	91.2	9.28	-87	12.3	7.29	87.3	70.6	7.57	56.3	11.3	7.02	94.2	72.6	7.82	107.2	9.57	7.35	78.9	87.4	9.97	215.9	9.323	6.89	74.2	87.7	10.06	211.5
11	14.5	7.1	113	90.4	9.2	-112.7	12.3	7.25	87.4	72.2	7.77	57.7	11.3	7.04	93.8	71.5	7.85	107.4	9.57	7.35	78	87.5	9.97	215.5	9.315	6.86	74.8	87.4	10.02	211.8
12	12.14	6.85	125	50.5	5.21	-167.4	12.3	7.28	87.7	70.8	7.57	57.6	11.3	7.04	93.4	68.2	7.63	107.2	9.56	7.35	80	87.5	9.97	214.8	9.304	6.85	73.8	87.4	10.03	211.3
13	10.418	6.67	137	6.6	0.74	-245.8	12.3	7.24	88	70.9	7.64	58.3	11.3	7.08	93.4	70.4	7.75	106.6	9.57	7.35	80	87.5	9.98	214.2	9.297	6.81	72.8	87.4	10.03	211
14	10.18	6.81	144	1	0	-260	12.3	7.28	87.9	68.1	7.49	59							9.55	7.35	77.8	87.6	9.99	213.5	9.292	6.83	71.8	87.7	10.05	210
1m from Bottom (1MB)	1MB = 14m						1MB = 14m						1MB = 13m						1MB = 14m						1MB = 14m					

Appendix 1 - Tables

Table 42 LQL Depth Profiling 1 Page(s)

LOWER QUINSAM LAKE DEPTH PROFILING SPRING																														
Sample Date Parameter Sample Depth (m)		10-Apr					15-Apr					24-Apr					29-Apr					07-May								
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	8.0	7.32	83.1	95.0	11.31	55.0	8.1	6.60	95.7		11.29	155.6	10.9	6.54	99.1	101.8	11.26	210.5	11.7	6.60	91.2	98.6	10.70	179.6	13.1	7.14	102.7	103.0	10.82	229.7
2	8.0	7.27	83.1	95.5	11.30	57.7	8.1	6.72	95.5		11.32	152.8	10.5	6.73	99.8	101.2	11.30	209.4	11.7	6.70	91.2	98.8	10.72	180.6	12.7	7.21	103.8	102.6	10.86	226.0
3	8.0	7.21	82.9	95.5	11.31	63.1	8.1	6.75	95.2		11.33	156.7	9.8	6.78	98.7	100.5	11.40	208.9	11.5	6.80	90.9	98.8	10.75	176.9	11.9	7.22	103.3	101.8	11.00	224.0
4	8.0	7.21	82.8	95.4	11.31	65.6	8.1	6.77	95.5		11.34	155.6	9.6	6.90	98.6	99.9	11.40	209.0	10.9	6.83	89.6	98.0	10.77	176.8	11.5	7.22	103.5	100.6	10.97	223.1
5	8.0	7.18	82.7	95.4	11.30	68.2	8.1	6.75	95.5		11.34	157.6	9.1	6.92	99.5	98.5	11.34	208.3	10.2	6.85	90.0	96.6	10.86	178.0	11.0	7.22	103.0	99.5	10.96	221.9
6	7.9	7.15	82.6	95.1	11.28	68.2	7.9	6.70	95.4		11.34	160.9	9.0	6.97	99.8	98.1	11.33	205.7	9.7	6.86	89.5	95.9	10.90	176.6	10.4	7.18	98.7	97.7	10.94	222.5
7	7.9	7.15	82.6	95.2	11.30	68.4	7.9	6.72	94.8		11.32	159.7	9.0	9.96	101.3	97.8	11.32	205.8	9.3	6.83	89.4	95.0	10.91	177.8	9.5	7.13	95.8	95.1	10.84	223.5
8	7.9	7.15	83.0	95.0	11.30	69.8	7.9	6.77	94.2		11.38	160.0	8.6	6.94	97.1	96.6	11.27	206.7	9.0	6.81	88.8	94.4	10.92	180.0	9.3	7.07	94.8	93.7	10.79	223.0
9	7.8	7.14	83.0	95.1	11.27	63.4	7.9	6.75	94.2		11.38	160.3	8.4	6.94	97.7	95.8	11.23	205.1	8.7	6.80	88.2	93.5	10.90	180.7	9.0	7.03	93.9	93.0	10.76	225.0
10	7.6	7.13	83.0	95.0	11.27	73.8	7.9	6.75	94.6		11.38	161.0	8.3	6.91	97.7	95.6	11.17	207.4	8.6	6.76	88.2	92.7	10.82	182.2	8.6	7.00	93.0	91.9	10.70	225.2
11	7.6	7.10	85.1	95.0	11.32	74.5	7.8	6.73	94.1		11.41	160.6	8.2	6.87	97.8	94.9	11.18	207.5	8.2	6.74	87.9	90.8	10.71	182.9	8.6	6.99	92.6	91.2	10.66	226.2
12	7.1	6.95	85.5	93.8	11.27	74.5	7.8	6.80	95.5		11.41	160.1	8.0	6.88	97.6	94.8	11.17	207.0	8.1	6.73	87.9	90.3	10.68	184.1	8.3	6.98	92.4	90.1	10.58	225.0
13	7.1	6.94	84.3	93.2	11.28	74.5	7.6	6.73	93.9		11.43	162.0	7.9	6.87	97.3	94.5	11.16	206.8	8.0	6.72	88.1	90.2	10.68	183.5	8.2	6.96	92.3	89.2	10.52	225.7
14	7.1	6.95	84.2	93.5	11.28	74.5	7.7	6.76	94.5		11.41	160.0	7.8	6.85	96.7	94.5	11.15	206.1	7.9	6.71	87.9	89.1	10.58	184.1	8.1	6.91	92.3	88.3	10.42	226.7
15	7.0	6.95	85.2	93.6	11.28	74.5	7.6	6.76	93.3		11.38	161.5	7.7	6.85	96.6	94.5	11.15	205.4	7.8	6.67	87.7	87.7	10.43	185.2	8.0	6.89	92.4	86.5	10.24	227.6
16	6.8	6.95	85.3	93.8	11.27	74.5	7.3	6.77	93.6		11.36	160.1	7.7	6.81	96.2	94.3	11.13	205.0	7.7	6.67	87.6	86.2	10.27	184.9	7.9	6.87	92.3	84.4	10.03	227.9
17							7.2	6.76	93.3		11.20	159.0																		
1m from Bottom (BS)	BS=16.0m						BS=17.0m						BS=16.0m						BS=16.0m						BS=16.0m					

Appendix 1 - Tables

Table 42 LQL Depth Profiling 1 Page(s)

EMS ID E292118 SITE NAME: LOWER QUINSAM LAKE (LQL)		LOWER QUINSAM LAKE DEPTH PROFILING SUMMER																												
Sample Date Parameter Sample Depth (m)	09-Jul						16-Jul						22-Jul						30-Jul						06-Aug					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	23.4	7.41	132.1	103.1	9.04	161.2	21.4	7.30	149.4	102.6	9.08	159.0	23.1	7.66	145.2	105.1	9.00	137.3	23.0	7.98	158.6	81.4	6.95	162.7	22.3	7.81	167.0	102.0	8.86	136.9
2	22.5	8.01	150.6	103.7	10.57	158.1	21.3	7.37	149.1	102.4	9.07	156.5	22.9	7.80	143.0	104.4	8.97	130.4	23.0	7.94	158.5	83.2	6.94	164.0	22.3	7.82	166.9	101.6	8.84	135.8
3	23.2	7.85	155.3	104.0	11.06	156.4	21.2	7.45	150.3	102.0	9.06	154.4	22.5	7.86	139.9	103.8	9.00	126.5	23.0	7.97	158.5	79.1	6.71	164.0	22.3	7.82	167.0	101.5	8.82	135.5
4	21.2	7.66	151.4	101.8	9.24	153.8	21.0	7.46	151.2	101.6	9.04	153.6	21.6	7.86	148.1	102.5	9.03	127.5	22.4	7.90	163.4	80.1	6.95	164.6	22.3	7.75	167.0	101.3	8.80	139.3
5	21.0	7.67	153.7	100.8	9.20	153.2	20.9	7.47	153.5	100.6	9.00	153.0	21.2	7.87	148.0	102.6	9.11	123.8	21.5	7.83	169.1	80.6	7.04	165.6	22.2	7.71	168.4	101.3	8.81	139.5
6	19.2	7.73	142.7	100.5	9.51	151.0	19.1	7.53	142.5	100.3	9.31	150.8	19.2	7.85	134.7	103.3	9.54	125.4	20.6	7.78	158.6	89.5	8.07	166.2	20.8	7.45	170.8	102.2	9.13	143.5
7	15.1	7.73	104.4	95.3	9.87	159.3	15.0	7.53	104.2	95.1	9.67	159.1	16.0	7.71	101.7	100.1	9.92	128.9	17.3	7.70	110.2	84.3	8.23	167.3	18.5	7.31	137.5	103.4	9.68	144.2
8	12.8	7.68	98.0	87.7	9.57	151.2	12.6	7.48	97.8	87.5	9.37	151.0	13.7	7.98	93.7	92.9	9.66	117.2	12.8	7.54	95.0	81.5	8.65	166.2	15.3	7.07	102.2	98.6	9.90	146.2
9	11.6	7.61	96.2	82.4	9.16	154.2	11.5	7.41	96.0	82.2	8.96	154.0	12.1	7.77	91.0	85.5	9.18	126.8	11.3	7.42	92.6	71.7	7.82	165.8	12.9	6.94	97.5	90.5	9.57	147.2
10	11.0	7.50	95.5	77.7	8.78	157.0	10.8	7.30	95.3	77.5	8.58	156.8	11.1	7.62	90.1	78.8	8.68	127.8	10.3	7.24	92.7	59.5	6.68	164.6	11.5	6.83	95.1	80.2	8.73	148.2
11	10.3	7.42	95.0	72.7	8.34	158.2	10.2	7.22	94.8	72.5	8.14	158.0	10.4	7.62	89.9	73.4	8.20	128.2	9.3	7.14	92.5	49.6	5.64	166.0	10.8	6.76	95.1	73.9	8.18	151.0
12	9.9	7.34	94.9	67.7	7.87	158.3	9.7	7.14	94.7	67.5	7.67	158.1	9.6	7.59	89.6	64.3	7.32	130.4	8.9	7.03	92.8	37.5	4.33	166.3	9.9	6.65	94.5	61.0	6.91	149.2
13	9.3	7.30	95.1	59.6	6.95	158.9	9.2	7.10	94.9	59.4	6.75	158.7	9.1	7.42	89.7	53.9	6.21	134.0	8.7	6.91	93.1	32.3	3.70	166.8	9.0	6.51	95.5	40.0	4.64	142.2
14	8.9	7.25	95.2	51.4	6.11	159.3	8.8	7.05	95.0	51.2	5.91	159.1	8.8	7.36	90.1	43.2	5.02	134.5	8.5	6.83	94.3	23.5	2.72	167.6	8.8	6.61	96.1	30.1	3.48	149.3
15	8.7	7.18	95.9	39.9	4.80	160.2	8.6	6.98	95.7	39.7	4.60	160.0	8.5	7.28	91.4	30.5	3.55	135.8	8.4	6.79	95.0	20.0	2.34	168.0	8.5	6.51	97.7	19.1	2.23	153.8
16	8.6	7.12	96.7	33.7	4.10	160.7	8.5	6.92	96.5	33.5	3.90	160.5	8.5	7.23	91.7	26.7	3.13	136.8	8.3	6.75	96.0	15.6	1.80	168.0	8.4	6.47	99.1	12.0	1.41	156.2
1m from Bottom (BS)	BS=16.0m						BS=16.0m						BS=16.0m						BS=16.0m						BS=16.0m					

Appendix 1 - Tables

Table 42 LQL Depth Profiling 1 Page(s)

EMS ID E292118 SITE NAME: LOWER QUINSAM LAKE (LQL)																														
LOWER QUINSAM LAKE DEPTH PROFILING FALL																														
Sample Date Parameter Sample Depth (m)	08-Oct						15-Oct						21-Oct						29-Oct						04-Nov					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	13.9	7.31	112.5	85.1	8.75	82.1	12.3	7.00	102.7	69.3	7.41	47.5	11.2	7.19	116.9	75.0	8.19	72.9	9.1	6.97	27.8	82.4	9.47	65.1	8.4	6.99	64.4	91.4	10.68	202.1
2	13.7	7.27	112.1	78.9	8.15	68.6	12.1	7.08	102.8	70.0	7.39	53.8	11.1	7.22	117.7	74.1	8.01	75.7	9.1	6.98	27.9	83.8	9.63	66.5	8.4	6.98	64.6	91.0	10.68	198.9
3	13.6	7.26	111.4	75.2	7.88	65.3	12.1	7.14	102.6	69.4	7.48	55.2	11.1	7.23	117.3	72.0	7.94	77.9	9.1	7.00	28.0	81.5	9.43	69.0	8.4	6.97	63.5	91.0	10.68	197.1
	13.6	7.27	111.4	74.7	7.81	61.6	12.0	7.14	102.5	68.9	7.50	55.7	11.1	7.22	117.3	70.8	7.80	79.2	9.0	7.01	28.0	80.0	9.22	72.8	8.4	6.97	64.4	91.0	10.68	196.6
5	13.6	7.26	111.4	75.6	7.91	61.6	12.0	7.14	102.5	67.9	7.31	57.4	11.1	7.22	117.3	70.5	7.77	79.6	9.0	7.01	28.0	82.1	9.46	74.1	8.3	6.96	64.4	91.0	10.90	196.1
6	13.3	7.24	106.3	74.6	7.75	61.3	12.0	7.15	102.5	67.5	7.22	57.9	11.1	7.22	116.6	70.3	7.74	79.9	9.0	7.01	27.8	79.9	9.24	75.9	8.3	6.96	62.4	91.1	10.71	195.5
7	13.2	7.21	104.4	70.0	7.35	57.6	12.0	7.13	102.0	70.5	7.27	57.7	11.0	7.22	117.0	70.2	7.76	80.0	9.0	7.02	27.6	78.3	9.17	75.9	8.3	6.96	63.4	91.1	10.71	195.1
8	13.1	7.19	104.1	73.0	7.61	57.0	11.8	7.14	100.5	64.3	6.95	57.9	10.8	7.22	115.4	70.2	7.77	80.4	9.0	7.01	27.6	80.6	9.33	76.5	8.3	6.96	61.8	91.1	10.72	194.8
9	13.0	7.19	104.1	71.0	7.46	56.3	11.6	7.12	99.3	63.8	6.87	57.7	10.8	7.20	114.5	70.6	7.82	80.1	8.9	6.99	27.5	81.0	9.30	77.2	8.3	6.96	62.4	91.2	10.73	194.6
10	12.8	7.18	103.4	68.5	7.24	55.0	11.5	7.11	99.8	66.2	7.22	58.6	10.7	7.18	114.1	70.2	7.79	80.1	8.8	7.02	27.0	80.3	9.34	77.2	8.3	6.96	61.7	91.3	10.75	194.3
11	12.8	7.14	102.2	67.1	7.10	54.0	11.3	7.11	98.4	62.4	6.85	58.3	10.6	7.15	113.1	65.3	7.28	80.3	8.7	7.01	26.4	83.7	9.73	77.4	8.3	6.96	62.2	91.4	10.75	194.1
12	12.5	7.10	101.0	67.4	7.15	52.0	11.1	7.08	97.7	59.5	6.54	57.9	10.5	7.13	113.0	65.7	7.34	79.3	8.7	7.02	26.5	84.8	9.86	77.3	8.3	6.96	61.9	91.6	10.77	193.8
13	12.2	7.03	98.5	59.1	6.34	48.3	10.7	7.05	95.4	54.6	5.94	57.0	10.5	7.11	112.7	65.0	7.26	79.3	8.7	7.02	26.3	81.5	9.49	78.1	8.2	6.96	62.3	91.6	10.77	193.6
14	10.4	6.79	84.9	19.6	2.18	31.5	10.4	6.97	92.6	45.7	5.10	55.3	10.4	7.05	111.4	60.6	6.74	78.7	8.6	7.01	26.0	83.6	9.72	78.8	8.3	6.96	62.4	91.6	10.77	193.8
15	9.4	6.61	81.6	7.4	0.85	16.0	10.1	6.89	90.0	37.2	3.31	54.4	10.1	7.00	109.3	49.7	5.60	79.5	8.5	7.01	25.7	82.8	9.67	79.0	8.3	6.95	62.4	91.6	10.78	193.0
16	8.6	6.54	86.8	4.8	0.56	7.5	8.8	6.68	85.4	2.0	0.24	45.4	8.7	6.64	107.5	1.5	0.16	68.3	8.4	7.00	25.1	83.7	9.82	79.1	8.3	6.96	61.9	91.7	10.78	192.8
17													8.5	6.57	117.1	1.3	0.15	62.5	8.4	7.02	25.0	80.3	9.52	79.0	8.3	6.95	62.1	91.6	10.77	192.7
1m from Bottom (BS)	BS=16.0m						BS=16.0m						BS=17.0m						BS=17.0m						BS=17.0m					

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

Lakes Spring 2025												
EMS ID	E217018											
StnName	No Name Lake 1M											
StnCode	NNL1											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	<1.0	<1.0	<1.0	<1.0	1.3	5	1.3	0.66	128		0.98
Turb-F	NTU	1.61	-0.7	-0.7	0.31	-1.44	5	1.61	-0.18			1.09
Alk-T	mg/L	13	11	12	13	14	5	14	12.6			13.6
Al-T	mg/L	0.0428	0.0389	0.0828	0.0306	0.0313	5	0.0828	0.0453	*		0.0668
As-T	mg/L	0.00024	0.00025	0.00022	0.00019	0.00028	5	0.00028	0.00024	0.005		0.00027
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0011	0.0010	0.0011	0.0010	0.0011	5	0.0011	0.0011	1.00		0.0011
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	3.45	3.76	3.55	3.76	3.88	5	3.88	3.68			3.83
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00052	<0.00050	0.0006	<0.00050	<0.00050	5	0.0006	0.000374			0.000568
Fe-T	mg/L	0.059	0.059	0.052	0.051	0.053	5	0.059	0.055	*	1.0	0.059
Hard-T	mg/L	11.7	12.4	11.9	12.7	13.1	5	13.1	12.4			12.9
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.760	0.742	0.738	0.806	0.826	5	0.826	0.774			0.818
Mn-T	mg/L	0.0035	0.0035	0.0037	0.0036	0.0038	5	0.0038	0.0036	0.737	0.8706	0.0038
P-T	mg/L	0.0046	0.0044	0.0041	0.0039	0.0055	5	0.0055	0.0045	0.015		0.0051
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.058	0.050	<0.050	<0.050	<0.050	5	0.058	0.0366			0.0548
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.08	0.958	0.981	1.09	1.07	5	1.09	1.036			1.086
Sr-T	mg/L	0.0107	0.0108	0.0109	0.0115	0.0123	5	0.0123	0.0112			0.012
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0362	0.0346	0.033	0.0292	0.0273	5	0.0362	0.0321			0.0356
As-D	mg/L	0.00021	0.00024	0.000268	0.000250	0.000266	5	0.000268	0.000247			0.000267
Ba-D	mg/L	<0.0010	0.0010	0.00113	0.00109	0.00109	5	0.00113	0.00096			0.00111
B-D	mg/L	<0.050	<0.050	<0.010	0.013	0.016	5	<0.050	0.0168			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	3.60	3.54	4	3.86	3.84	5	4	3.77			3.94
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000230			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000022	0.0000217	0.0000218	5	<0.00020	0.0000531			0.0001
Cu-D	mg/L	0.00044	0.00044	0.000483	0.000416	0.000436	5	0.000483	0.000443	*	*	0.000466
DOC	mg/L	3.3	3.1	2.9	3.4	2.8	5	3.4	3.1			3.4
Hard-D	mg/L	12.2	12.0	13.6	13.0	13.0	5	13.6	12.8			13.4
Fe-D	mg/L	0.0399	0.0379	0.0448	0.0426	0.0413	5	0.0448	0.0413			0.0439
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.0000050	0.0000058	5	<0.00020	0.00004216			0.0001
Mg-D	mg/L	0.777	0.773	0.868	0.811	0.816	5	0.868	0.809			0.847
Mn-D	mg/L	0.0029	0.0028	0.00329	0.00332	0.00333	5	0.00333	0.00313			0.00333
Mo-D	mg/L	<0.0010	<0.0010	0.000178	0.000167	0.000164	5	<0.0010	0.000302			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000049	0.000041	0.000045	5	<0.0010	0.000227			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.052	<0.050	<0.050	0.051	<0.050	5	0.052	0.0356			0.0516
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	1.00	1.05	1.1	1.02	1.06	5	1.1	1.05			1.08
Sr-D	mg/L	0.0105	0.0110	0.0119	0.0118	0.0124	5	0.0124	0.0115			0.0122
Zn-D	mg/L	<0.0050	0.0145	0.00097	0.00032	0.00136	5	0.0145	0.00393			0.0097
N-NO23	mg/L	0.026	0.947	<0.020	<0.020	<0.020	5	0.947	0.2006			0.5786
Chlr-a	ug/L					0.55	1	0.55	0.55			0.55

Notes: *Calculated guideline. Refer to Exceedance Tables.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID StnName StnCode		E217018 No Name Lake 4M NNL4						Water Quality Guidelines				
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	<1.0	<1.0	<1.0	<1.0	1.1	5	1.1	0.62	128		0.86
Turb-F	NTU	1.8	-0.54	-0.54	0.35	-1.19	5	1.8	-0.02			1.22
Alk-T	mg/L	12	11	11	12	12	5	12	11.6			12
Al-T	mg/L	0.0431	0.0406	0.0366	0.0367	0.0331	5	0.0431	0.0380	*		0.0421
As-T	mg/L	0.00023	0.00026	0.00022	0.00016	0.00026	5	0.00026	0.00023	0.005		0.00026
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0011	5	0.0011	0.00082	1.00		0.00106
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	3.42	3.53	3.53	3.59	3.60	5	3.60	3.53			3.6
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.058	0.064	0.054	0.047	0.046	5	0.064	0.054	*	1.0	0.062
Hard-T	mg/L	11.7	11.9	11.8	12.1	12.2	5	12.2	11.9			12.2
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.762	0.753	0.725	0.767	0.769	5	0.769	0.755			0.768
Mn-T	mg/L	0.0035	0.0040	0.0036	0.0028	0.0029	5	0.0040	0.0034	0.737	0.8706	0.0038
P-T	mg/L	0.0034	0.0046	0.0046	0.0045	0.0034	5	0.0046	0.0041	0.015		0.0046
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.053	<0.050	<0.050	<0.050	<0.050	5	0.053	0.0306			0.0418
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.04	0.949	0.94	0.992	1.02	5	1.04	0.988			1.032
Sr-T	mg/L	0.0109	0.0108	0.0104	0.0105	0.0112	5	0.0112	0.0108			0.0111
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0359	0.0366	0.0336	0.0324	0.0288	5	0.0366	0.0335			0.0363
As-D	mg/L	0.00022	0.00025	0.000262	0.000254	0.000269	5	0.000269	0.000251			0.000266
Ba-D	mg/L	0.0011	0.0011	0.00102	0.00109	0.00102	5	0.0011	0.00107			0.0011
B-D	mg/L	<0.050	<0.050	<0.010	0.012	0.013	5	<0.050	0.0160			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	3.63	3.66	3.95	3.59	3.62	5	3.95	3.69			3.83
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.0001	0.00012	0.00010	5	<0.0010	0.00026			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000022	0.0000196	0.0000179	5	<0.00020	0.0000519			0.0001
Cu-D	mg/L	0.00046	0.00043	0.00049	0.000417	0.000447	5	0.00049	0.000449	*	*	0.000478
DOC	mg/L	3.3	3.4	3	3.2	2.9	5	3.4	3.2			3.4
Hard-D	mg/L	12.3	12.4	13.4	12.3	12.2	5	13.4	12.5			13
Fe-D	mg/L	0.0388	0.0417	0.0413	0.0295	0.0334	5	0.0417	0.0369			0.0415
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00004150			0.0001
Mg-D	mg/L	0.778	0.789	0.846	0.810	0.769	5	0.846	0.798			0.832
Mn-D	mg/L	0.0027	0.0031	0.0028	0.00160	0.00206	5	0.0031	0.00245			0.00298
Mo-D	mg/L	<0.0010	<0.0010	0.00017	0.000129	0.000170	5	<0.0010	0.000294			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000054	0.000071	0.000060	5	<0.0010	0.000237			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.055	<0.050	<0.050	0.050	<0.050	5	0.055	0.0360			0.053
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	1.04	1.01	1.1	0.999	0.983	5	1.1	1.026			1.076
Sr-D	mg/L	0.0108	0.0112	0.012	0.0116	0.0113	5	0.012	0.0114			0.0118
Zn-D	mg/L	<0.0050	0.0108	0.0006	0.00029	0.00078	5	0.0108	0.00299			0.00748
N-NO23	mg/L	0.034	<0.020	<0.020	<0.020	<0.020	5	0.034	0.0148			0.0244
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID	E217018	Water Quality Guidelines										
StnName	No Name Lake 9M											
StnCode	NNL9											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	<1.0	<1.0	2	1.4	2.4	5	2.4	1.36	128		2.24
Turb-F	NTU	1.84	-0.45	-0.45	0.47	-0.99	5	1.84	0.08			1.29
Alk-T	mg/L	11	11	11	11	12	5	12	11.2			11.6
Al-T	mg/L	0.0453	0.0433	0.044	0.0407	0.0414	5	0.0453	0.0429	*		0.0448
As-T	mg/L	0.00021	0.00024	0.00022	0.00014	0.00021	5	0.00024	0.00020	0.005		0.00023
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0011	0.0011	0.0011	0.0011	0.0011	5	0.0011	0.0011	1.00		0.0011
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	3.77	3.84	3.96	3.80	3.83	5	3.96	3.84			3.91
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00053	<0.00050	0.00053	<0.00050	<0.00050	5	0.00053	0.000362			0.00053
Fe-T	mg/L	0.065	0.065	0.066	0.065	0.073	5	0.073	0.067	*	1.0	0.07
Hard-T	mg/L	12.7	12.8	13.2	12.8	12.7	5	13.2	12.8			13
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.788	0.772	0.804	0.793	0.768	5	0.804	0.785			0.8
Mn-T	mg/L	0.0044	0.0046	0.0047	0.0047	0.0053	5	0.0053	0.0047	0.737	0.8706	0.0051
P-T	mg/L	0.0071	0.0050	0.0043	0.0042	0.0036	5	0.0071	0.0048	0.015		0.0063
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.057	0.054	0.059	<0.050	0.053	5	0.059	0.0496			0.0582
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.03	0.951	1.02	1.01	0.963	5	1.03	0.995			1.026
Sr-T	mg/L	0.0121	0.0121	0.0123	0.0123	0.0125	5	0.0125	0.0123			0.0124
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0368	0.0374	0.0397	0.0359	0.0345	5	0.0397	0.0369			0.0388
As-D	mg/L	0.00020	0.00020	0.000214	0.000220	0.000204	5	0.000220	0.000208			0.000218
Ba-D	mg/L	0.0012	0.0011	0.00121	0.00112	0.00109	5	0.00121	0.00114			0.00121
B-D	mg/L	<0.050	<0.050	<0.010	0.011	0.012	5	<0.050	0.0156			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	3.79	3.82	4.16	3.73	3.82	5	4.16	3.86			4.02
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	0.00010	0.00011	5	<0.0010	0.000252			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000017	0.0000152	0.0000156	5	<0.00020	0.0000496			0.0001
Cu-D	mg/L	0.00046	0.00043	0.000495	0.000434	0.000432	5	0.000495	0.000450	*	*	0.000481
DOC	mg/L	3.1	3.1	3.1	3.3	3.0	5	3.3	3.1			3.2
Hard-D	mg/L	12.7	12.8	14.1	12.6	12.7	5	14.1	13.0			13.6
Fe-D	mg/L	0.0354	0.0358	0.04	0.0339	0.0347	5	0.04	0.0360			0.0383
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00004150			0.0001
Mg-D	mg/L	0.786	0.786	0.895	0.807	0.768	5	0.895	0.808			0.86
Mn-D	mg/L	0.0029	0.0029	0.00325	0.00261	0.00247	5	0.00325	0.00283			0.00311
Mo-D	mg/L	<0.0010	<0.0010	0.000153	0.000167	0.000115	5	<0.0010	0.000287			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000066	0.000074	0.000060	5	<0.0010	0.000240			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.055	<0.050	0.051	0.055	0.052	5	0.055	0.0476			0.055
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	1.02	1.00	1.11	0.976	0.971	5	1.11	1.015			1.074
Sr-D	mg/L	0.0118	0.0119	0.0134	0.0124	0.0131	5	0.0134	0.0125			0.0133
Zn-D	mg/L	<0.0050	<0.0050	0.00039	0.00060	0.00020	5	<0.0050	0.00124			0.0025
N-NO23	mg/L	0.063	0.035	0.04	0.030	0.029	5	0.063	0.039			0.054
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID	E217018	Water Quality Guidelines										
StnName	No Name Lake Bottom											
StnCode	NNLB											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	<1.0	<1.0	2.2	1.5	2.6	5	2.6	1.46	128		2.44
Turb-F	NTU	1.68	-0.43	-0.43	0.54	-0.94	5	1.68	0.08			1.22
Alk-T	mg/L	12	11	11	11	11	5	12	11.2			11.6
Al-T	mg/L	0.0451	0.0420	0.0383	0.0407	0.0386	5	0.0451	0.0409	*		0.0439
As-T	mg/L	0.00022	0.00023	0.00018	0.00013	0.00022	5	0.00023	0.00020	0.005		0.00023
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0011	0.0011	0.001	0.0011	0.0011	5	0.0011	0.0011	1.00		0.0011
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	3.76	3.78	3.61	3.67	3.69	5	3.78	3.70			3.77
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.067	0.067	0.066	0.067	0.070	5	0.070	0.067	*	1.0	0.069
Hard-T	mg/L	12.6	12.6	12.1	12.4	12.4	5	12.6	12.4			12.6
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.781	0.768	0.748	0.782	0.763	5	0.782	0.768			0.782
Mn-T	mg/L	0.0045	0.0048	0.0046	0.0047	0.0049	5	0.0049	0.0047	0.737	0.8706	0.0049
P-T	mg/L	0.0038	0.0048	0.0045	0.0040	0.0037	5	0.0048	0.0042	0.015		0.0047
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.058	0.053	<0.050	0.051	0.055	5	0.058	0.0484			0.0568
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.03	0.944	0.938	0.978	0.958	5	1.03	0.970			1.009
Sr-T	mg/L	0.0119	0.0123	0.0114	0.0120	0.0122	5	0.0123	0.0120			0.0123
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0383	0.0375	0.0388	0.0373	0.0355	5	0.0388	0.0375			0.0386
As-D	mg/L	0.00021	0.00022	0.000236	0.000203	0.000221	5	0.000236	0.000218			0.00023
Ba-D	mg/L	0.0011	0.0011	0.00107	0.00112	0.00105	5	0.00112	0.00109			0.00111
B-D	mg/L	<0.050	<0.050	<0.010	0.013	0.011	5	<0.050	0.0158			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	3.83	3.74	4.16	3.82	3.78	5	4.16	3.87			4.03
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.00013	0.00013	0.00012	5	<0.0010	0.00028			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000017	0.0000200	0.0000162	5	<0.00020	0.0000506			0.0001
Cu-D	mg/L	0.00046	0.00042	0.000486	0.000432	0.000540	5	0.000540	0.000468	*	*	0.000518
DOC	mg/L	3.4	3.1	2.9	3.2	3.0	5	3.4	3.1			3.3
Hard-D	mg/L	12.9	12.6	14.1	12.9	12.6	5	14.1	13.0			13.6
Fe-D	mg/L	0.0375	0.0364	0.0403	0.0356	0.0349	5	0.0403	0.0369			0.0392
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00004150			0.0001
Mg-D	mg/L	0.814	0.783	0.891	0.818	0.778	5	0.891	0.817			0.862
Mn-D	mg/L	0.0029	0.0030	0.00349	0.00281	0.00266	5	0.00349	0.00297			0.00329
Mo-D	mg/L	<0.0010	<0.0010	0.000172	0.000114	0.000117	5	<0.0010	0.000281			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000067	0.000061	0.000055	5	<0.0010	0.000237			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.058	<0.050	0.051	0.054	0.053	5	0.058	0.0482			0.0564
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	1.04	1.00	1.1	0.964	0.975	5	1.1	1.016			1.076
Sr-D	mg/L	0.0119	0.0121	0.0132	0.0126	0.0131	5	0.0132	0.0126			0.0132
Zn-D	mg/L	<0.0050	<0.0050	0.00054	0.00021	0.00015	5	<0.0050	0.00118			0.0025
N-NO23	mg/L	0.046	0.027	0.032	0.029	0.033	5	0.046	0.033			0.041
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E206619						Water Quality Guidelines				
StnName		Long Lake Middle 1 M										
StnCode		LLM1										
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	23	30	32	33	37	5	37	31.0	128		35.4
Turb-F	NTU	2.31	-0.43	-0.24	-0.4	-1.43	5	2.31	-0.04			1.29
Alk-T	mg/L	22	23	23	24	26	5	26	23.6			25.2
Al-T	mg/L	0.0407	0.0354	0.0307	0.0277	0.0249	5	0.0407	0.0319	*		0.0386
As-T	mg/L	0.00031	0.00027	0.00028	0.00033	0.00036	5	0.00036	0.00031	0.005		0.00035
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.056	5	0.056	0.0312	1.2		0.0436
Ba-T	mg/L	0.003	0.0034	0.0033	0.0036	0.0039	5	0.0039	0.0034	1.00		0.0038
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	11.6	14.0	13.8	14.6	16.4	5	16.4	14.1			15.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.056	0.055	0.047	0.041	0.040	5	0.056	0.048	*	1.0	0.056
Hard-T	mg/L	35.9	42.4	41.8	44.5	49.7	5	49.7	42.9			47.6
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.66	1.79	1.80	1.97	2.11	5	2.11	1.87			2.05
Mn-T	mg/L	0.0054	0.0059	0.0057	0.0059	0.0058	5	0.0059	0.0057	0.737	0.8706	0.0059
P-T	mg/L	0.0034	0.0043	0.0035	<0.0030	<0.0030	5	0.0043	0.00284	0.015		0.00398
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.158	0.162	0.161	0.179	0.198	5	0.198	0.172			0.19
S-T	mg/L	8.5	8.7	10.0	11.8	12.8	5	12.8	10.4			12.4
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	3.59	4.14	4.09	4.74	5.36	5	5.36	4.38			5.11
Sr-T	mg/L	0.0683	0.0829	0.0852	0.0968	0.111	5	0.111	0.0888			0.1053
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0295	0.0274	0.0265	0.0203	0.0190	5	0.0295	0.0245			0.0287
As-D	mg/L	0.00032	0.000290	0.000366	0.000346	0.000360	5	0.000366	0.000336			0.000364
Ba-D	mg/L	0.003	0.00331	0.00379	0.00353	0.00388	5	0.00388	0.00350			0.00384
B-D	mg/L	<0.050	0.030	0.037	0.042	0.045	5	0.045	0.0358			0.0438
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	11.8	14.1	15.2	15.1	18.2	5	18.2	14.9			17
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	0.00015	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000160			0.00036
Co-D	mg/L	<0.00020	0.0000203	0.0000150	0.0000153	0.0000133	5	<0.00020	0.0000328			6.81E-05
Cu-D	mg/L	0.00039	0.000356	0.000430	0.000366	0.000456	5	0.000456	0.000400	*	*	0.000446
DOC	mg/L	3.4	3.1	3.0	3.2	2.8	5	3.4	3.1			3.3
Hard-D	mg/L	36.3	42.5	46.7	46.1	54.3	5	54.3	45.2			51.3
Fe-D	mg/L	0.0358	0.0337	0.0320	0.0245	0.0242	5	0.0358	0.0300			0.035
Pb-D	mg/L	<0.00020	<0.0000050	<0.0000050	<0.0000050	0.0000065	5	<0.00020	0.00002280			6.26E-05
Mg-D	mg/L	1.63	1.80	2.10	2.07	2.15	5	2.15	1.95			2.13
Mn-D	mg/L	0.0041	0.00394	0.00291	0.00213	0.00211	5	0.0041	0.00304			0.00404
Mo-D	mg/L	<0.0010	0.000147	0.000171	0.000169	0.000180	5	<0.0010	0.000233			0.000372
Ni-D	mg/L	<0.0010	0.000087	0.000074	0.000083	0.000092	5	<0.0010	0.000167			0.000337
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000400			7.00E-06
K-D	mg/L	0.148	0.163	0.173	0.183	0.202	5	0.202	0.174			0.194
S-D	mg/L	8.6	9.5	12.0	11.8	13.2	5	13.2	11.0			12.7
Se-D	mg/L	<0.00010	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000260			3.80E-05
Na-D	mg/L	3.38	4.03	4.77	5.00	5.43	5	5.43	4.52			5.26
Sr-D	mg/L	0.0678	0.0862	0.0978	0.0992	0.113	5	0.113	0.0928			0.1075
Zn-D	mg/L	<0.0050	0.00182	0.00127	0.00084	0.00049	5	<0.0050	0.00138			0.00223
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chl-a	ug/L					0.79	1	0.79	0.79			0.79
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID	E206619	Water Quality Guidelines										
StnName	Long Lake Middle 4 M											
StnCode	LLM4											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	57	62	71	50	51	5	71	58.2	128		67.4
Turb-F	NTU	2.37	-0.22	-0.02	0.04	-1.25	5	2.37	0.18			1.44
Alk-T	mg/L	32	33	34	30	30	5	34	31.8			33.6
Al-T	mg/L	0.0367	0.0522	0.0274	0.0285	0.0255	5	0.0522	0.0341	*		0.046
As-T	mg/L	0.00027	0.00025	0.00027	0.00029	0.00037	5	0.00037	0.00029	0.005		0.00034
B-T	mg/L	0.06	0.055	0.058	0.058	0.061	5	0.061	0.058	1.2		0.061
Ba-T	mg/L	0.0046	0.0050	0.0049	0.0044	0.0045	5	0.0050	0.0047	1.00		0.005
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	24	25.6	25.9	21.0	20.1	5	25.9	23.3			25.8
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	0.00083	<0.00050	<0.00050	<0.00050	5	0.00083	0.000366			0.000598
Fe-T	mg/L	0.056	0.099	0.046	0.044	0.040	5	0.099	0.057	*	1.0	0.082
Hard-T	mg/L	72.3	76.5	77.4	63.2	60.3	5	77.4	69.9			77
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	3.03	3.02	3.06	2.61	2.44	5	3.06	2.83			3.05
Mn-T	mg/L	0.0182	0.0166	0.0159	0.0094	0.0074	5	0.0182	0.0135	0.737	0.8706	0.0176
P-T	mg/L	0.0035	0.0046	0.0039	0.0058	0.0031	5	0.0058	0.0042	0.015		0.0053
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	5	0.0013	0.00066	0.025		0.00098
K-T	mg/L	0.304	0.305	0.299	0.253	0.244	5	0.305	0.281			0.305
S-T	mg/L	19.3	19.7	20.5	17.5	17.0	5	20.5	18.8			20.2
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	8.08	8.44	8.49	6.93	6.78	5	8.49	7.74			8.47
Sr-T	mg/L	0.169	0.177	0.186	0.148	0.146	5	0.186	0.165			0.182
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0273	0.0247	0.0261	0.0226	0.0194	5	0.0273	0.0240			0.0268
As-D	mg/L	0.00026	0.000284	0.000296	0.000303	0.000336	5	0.000336	0.000296			0.000323
Ba-D	mg/L	0.0053	0.00502	0.00552	0.00438	0.00450	5	0.00552	0.00494			0.00543
B-D	mg/L	0.064	0.059	0.070	0.050	0.054	5	0.070	0.059			0.068
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	0.0000051	5	0.0000051	0.00000352	0.000087	0.00017	5.06E-06
Ca-D	mg/L	28	29.3	30.0	27.9	21.4	5	30.0	27.3			29.7
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	0.00017	<0.0010	<0.0010	<0.0010	5	<0.0010	0.000164			0.000368
Co-D	mg/L	<0.00020	0.0000200	0.0000210	0.0000128	0.0000144	5	<0.00020	0.0000336			6.84E-05
Cu-D	mg/L	0.00041	0.000375	0.000452	0.000382	0.000358	5	0.000452	0.000395	*	*	0.000435
DOC	mg/L	3.4	3.2	3.1	3.1	2.9	5	3.4	3.1			3.3
Hard-D	mg/L	83.9	85.7	90.1	80.2	64.0	5	90.1	80.8			88.3
Fe-D	mg/L	0.0358	0.0331	0.0318	0.0348	0.0228	5	0.0358	0.0317			0.0354
Pb-D	mg/L	<0.00020	<0.0000050	<0.0000050	0.0000064	<0.0000050	5	<0.00020	0.00002278			6.26E-05
Mg-D	mg/L	3.38	3.08	3.70	2.58	2.54	5	3.70	3.06			3.57
Mn-D	mg/L	0.019	0.0122	0.0103	0.00270	0.00153	5	0.019	0.00915			0.01628
Mo-D	mg/L	<0.0010	0.000138	0.000153	0.000147	0.000150	5	<0.0010	0.000218			0.000361
Ni-D	mg/L	<0.0010	0.000142	0.000153	0.000125	0.000140	5	<0.0010	0.000212			0.000361
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000400			7.00E-06
K-D	mg/L	0.339	0.311	0.339	0.246	0.245	5	0.339	0.296			0.339
S-D	mg/L	23.9	21.8	25.3	17.1	18.1	5	25.3	21.2			24.7
Se-D	mg/L	<0.00010	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000260			3.80E-05
Na-D	mg/L	9.47	8.40	9.81	6.70	6.99	5	9.81	8.27			9.67
Sr-D	mg/L	0.206	0.191	0.215	0.141	0.149	5	0.215	0.180			0.211
Zn-D	mg/L	<0.0050	0.00108	0.00151	0.00097	0.00028	5	<0.0050	0.00127			0.0021
N-NO23	mg/L	0.027	<0.020	0.025	<0.020	<0.020	5	0.027	0.0164			0.0262
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID StnName StnCode	E206619 Long Lake Middle 9 M LLM9									Water Quality Guidelines		
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
		mg/L	mg/L	mg/L	mg/L	mg/L						
SO4-D	mg/L	46	81	87	75	86	5	87	75.0	128		86.6
Turb-F	NTU	2.48	0.08	0.02	-0.02	-1.09	5	2.48	0.29			1.52
Alk-T	mg/L	27	40	40	40	40	5	40	37.4			40
Al-T	mg/L	0.0381	0.0264	0.0255	0.0294	0.0275	5	0.0381	0.0294	*		0.0346
As-T	mg/L	0.00031	0.00025	0.00027	0.00030	0.00028	5	0.00031	0.00028	0.005		0.00031
B-T	mg/L	0.053	0.070	0.071	0.084	0.081	5	0.084	0.072	1.2		0.083
Ba-T	mg/L	0.0044	0.0059	0.0059	0.0061	0.0061	5	0.0061	0.0057	1.00		0.0061
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	21	32.5	32.0	32.4	33.3	5	33.3	30.2			33
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	0.00052	<0.00050	<0.00050	<0.00050	5	0.00052	0.000304			0.000412
Fe-T	mg/L	0.058	0.067	0.063	0.057	0.055	5	0.067	0.060	*	1.0	0.065
Hard-T	mg/L	63.8	96.6	95.2	96.9	97.5	5	97.5	90.0			97.3
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	2.76	3.73	3.72	3.90	3.49	5	3.90	3.52			3.83
Mn-T	mg/L	0.0211	0.0443	0.0438	0.0426	0.0317	5	0.0443	0.0367	0.737	0.8706	0.0441
P-T	mg/L	0.0031	0.0046	0.0036	0.0047	0.0039	5	0.0047	0.0040	0.015		0.0047
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.263	0.375	0.373	0.402	0.366	5	0.402	0.356			0.391
S-T	mg/L	16.8	26.7	27.5	30.2	27.3	5	30.2	25.7			29.1
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.96	10.5	10.3	11.2	10.1	5	11.2	9.81			10.92
Sr-T	mg/L	0.141	0.232	0.236	0.241	0.230	5	0.241	0.216			0.239
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0286	0.0232	0.0224	0.0216	0.0216	5	0.0286	0.0235			0.0264
As-D	mg/L	0.00027	0.000268	0.000274	0.000270	0.000271	5	0.000274	0.000271			0.000273
Ba-D	mg/L	0.0043	0.00608	0.00662	0.00616	0.00611	5	0.00662	0.00585			0.00644
B-D	mg/L	<0.050	0.069	0.084	0.077	0.079	5	0.084	0.0668			0.082
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	20.1	33.3	37.3	32.6	32.7	5	37.3	31.2			35.7
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	0.00017	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000164			0.000368
Co-D	mg/L	<0.00020	0.0000229	0.0000240	0.0000229	0.0000197	5	<0.00020	0.0000379			6.96E-05
Cu-D	mg/L	0.0004	0.000395	0.000464	0.000416	0.000416	5	0.000464	0.000418	*	*	0.000445
DOC	mg/L	3.2	3.1	3.2	3.2	3.1	5	3.2	3.2			3.2
Hard-D	mg/L	60.4	99.1	111	97.2	96.6	5	111	92.9			106.2
Fe-D	mg/L	0.037	0.0460	0.0413	0.0355	0.0316	5	0.0460	0.0383			0.0441
Pb-D	mg/L	<0.00020	0.0000384	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00002918			7.54E-05
Mg-D	mg/L	2.49	3.86	4.34	3.86	3.63	5	4.34	3.64			4.15
Mn-D	mg/L	0.0158	0.0385	0.0400	0.0316	0.0195	5	0.0400	0.0291			0.0394
Mo-D	mg/L	<0.0010	0.000121	0.000142	0.000138	0.000136	5	<0.0010	0.000207			0.000357
Ni-D	mg/L	<0.0010	0.000184	0.000184	0.000202	0.000193	5	<0.0010	0.000253			0.000381
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000400			7.00E-06
K-D	mg/L	0.244	0.385	0.432	0.392	0.375	5	0.432	0.366			0.416
S-D	mg/L	16.1	27.5	31.5	30.5	28.3	5	31.5	26.8			31.1
Se-D	mg/L	<0.00010	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000260			3.80E-05
Na-D	mg/L	6.27	10.5	12.0	11.0	10.5	5	12.0	10.05			11.6
Sr-D	mg/L	0.13	0.240	0.266	0.243	0.240	5	0.266	0.224			0.257
Zn-D	mg/L	<0.0050	0.00104	0.00071	0.00049	0.00033	5	<0.0050	0.00101			0.00192
N-NO23	mg/L	0.031	0.037	0.049	0.044	0.037	5	0.049	0.040			0.047
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID	E206619	Water Quality Guidelines										
StnName	Long Lake Middle 1M From B											
StnCode	LLMB											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	79	81	89	78	81	5	89	81.6	128		85.8
Turb-F	NTU	2.58	-0.04	0.05	0.16	-0.95	5	2.58	0.36			1.61
Alk-T	mg/L	40	40	40	40	40	5	40	40.0			40
Al-T	mg/L	0.0301	0.0283	0.0276	0.0276	0.0287	5	0.0301	0.0285	*		0.0295
As-T	mg/L	0.00029	0.00026	0.00029	0.00028	0.00032	5	0.00032	0.00029	0.005		0.00031
B-T	mg/L	0.078	0.068	0.074	0.083	0.088	5	0.088	0.078	1.2		0.086
Ba-T	mg/L	0.0062	0.0062	0.0064	0.0066	0.0071	5	0.0071	0.0065	1.00		0.0069
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	32.2	31.2	33.1	35.0	34.0	5	35.0	33.1			34.6
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.062	0.058	0.063	0.063	0.068	5	0.068	0.063	*	1.0	0.066
Hard-T	mg/L	96.3	93.1	98.3	104	101	5	104	98.5			102.8
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	3.87	3.66	3.81	3.98	3.80	5	3.98	3.82			3.94
Mn-T	mg/L	0.0479	0.0479	0.0496	0.0512	0.0537	5	0.0537	0.0501	0.737	0.8706	0.0527
P-T	mg/L	0.0036	0.0050	0.0058	0.0045	0.0037	5	0.0058	0.0045	0.015		0.0055
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.399	0.369	0.390	0.411	0.393	5	0.411	0.392			0.406
S-T	mg/L	28	26.0	27.8	31.5	29.8	5	31.5	28.6			30.8
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	11.1	10.2	10.6	11.4	11.0	5	11.4	10.9			11.3
Sr-T	mg/L	0.241	0.216	0.248	0.239	0.246	5	0.248	0.238			0.247
Zn-T	mg/L	<0.0050	<0.0050	0.0069	<0.0050	<0.0050	5	0.0069	0.00338	0.0075	0.033	0.00514
Al-D	mg/L	0.0233	0.0216	0.0240	0.0231	0.0190	5	0.0240	0.0222			0.0237
As-D	mg/L	0.00027	0.000271	0.000301	0.000262	0.000268	5	0.000301	0.000274			0.000289
Ba-D	mg/L	0.0066	0.00653	0.00714	0.00668	0.00673	5	0.00714	0.00674			0.00698
B-D	mg/L	0.079	0.069	0.084	0.082	0.081	5	0.084	0.079			0.083
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	35	34.4	37.2	33.1	33.7	5	37.2	34.7			36.3
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	0.00014	<0.0010	<0.0010	<0.0010	5	<0.0010	0.000158			0.000356
Co-D	mg/L	<0.00020	0.0000197	0.0000240	0.0000179	0.0000208	5	<0.00020	0.0000365			6.96E-05
Cu-D	mg/L	0.00043	0.000387	0.000475	0.000412	0.000410	5	0.000475	0.000423	*	*	0.000457
DOC	mg/L	3.5	3.1	3.2	3.2	3.0	5	3.5	3.2			3.4
Hard-D	mg/L	105	101	112	99.3	100	5	112	103.5			109.2
Fe-D	mg/L	0.0403	0.0404	0.0408	0.0355	0.0320	5	0.0408	0.0378			0.0406
Pb-D	mg/L	<0.00020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00002200			6.10E-05
Mg-D	mg/L	4.16	3.75	4.53	4.05	3.87	5	4.53	4.07			4.38
Mn-D	mg/L	0.0426	0.0403	0.0427	0.0370	0.0379	5	0.0427	0.0401			0.0427
Mo-D	mg/L	<0.0010	0.000136	0.000153	0.000113	0.000130	5	<0.0010	0.000206			0.000361
Ni-D	mg/L	<0.0010	0.000197	0.000200	0.000211	0.000195	5	<0.0010	0.000261			0.000384
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000400			7.00E-06
K-D	mg/L	0.419	0.392	0.445	0.415	0.400	5	0.445	0.414			0.435
S-D	mg/L	30.3	28.7	29.4	31.6	29.8	5	31.6	30.0			31.1
Se-D	mg/L	<0.00010	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.00010	0.0000260			3.80E-05
Na-D	mg/L	11.7	10.7	12.3	11.6	11.2	5	12.3	11.5			12.1
Sr-D	mg/L	0.258	0.243	0.267	0.253	0.252	5	0.267	0.255			0.263
Zn-D	mg/L	<0.0050	0.00114	0.00053	0.00072	0.00050	5	<0.0050	0.00108			0.00196
N-NO23	mg/L	0.052	0.043	0.052	0.029	0.056	5	0.056	0.046			0.054
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID	E206618									Water Quality Guidelines		
StnName	Middle Quinsam Lake 1M											
StnCode	MQL1											
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	21	19	14	8.3	<1.0	5	21	12.56	128		20.2
Turb-F	NTU	1.08	-0.05	-0.17	0.45	-1.41	5	1.08	-0.02			0.83
Alk-T	mg/L	33	32	30	27	1.5	5	33	24.7			32.6
Al-T	mg/L	0.0158	0.0155	0.0144	0.0147	0.0131	5	0.0158	0.0147	*		0.0157
As-T	mg/L	<0.00010	0.00012	<0.00010	0.00013	0.00011	5	0.00013	0.000092	0.005		0.000126
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0016	0.0016	0.0013	0.0011	0.0011	5	0.0016	0.0013	1.00		0.0016
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	10.4	11.3	9.06	8.37	8.11	5	11.3	9.45			10.94
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00051	0.00052	0.00051	0.00056	0.00050	5	0.00056	0.00052			0.00054
Fe-T	mg/L	0.022	0.027	0.023	0.026	0.028	5	0.028	0.025	*	1.0	0.028
Hard-T	mg/L	31.3	33.3	27	25.1	24.0	5	33.3	28.1			32.5
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.28	1.25	1.06	1.02	0.922	5	1.28	1.106			1.268
Mn-T	mg/L	0.0035	0.0039	0.0037	0.0048	0.0051	5	0.0051	0.0042	0.737	0.8706	0.005
P-T	mg/L	<0.0030	0.0049	0.0031	0.010	0.045	5	0.045	0.01290	0.015		0.031
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.169	0.159	0.117	0.096	0.086	5	0.169	0.125			0.165
S-T	mg/L	6.7	6.7	4.5	<3.0	<3.0	5	6.7	4.18			
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	9.45	8.54	6.08	4.11	3.36	5	9.45	6.31			9.09
Sr-T	mg/L	0.0489	0.0470	0.0366	0.0279	0.0244	5	0.0489	0.0370			0.0481
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0151	0.0143	0.0145	0.0122	0.0121	5	0.0151	0.0136			0.0149
As-D	mg/L	0.00011	0.00011	0.000117	0.000130	0.000101	5	0.000130	0.000114			0.000125
Ba-D	mg/L	0.0018	0.0016	0.0014	0.00119	0.00110	5	0.0018	0.00142			0.00172
B-D	mg/L	<0.050	<0.050	0.028	0.018	0.018	5	0.028	0.0228			0.0268
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	11.1	10.4	10.6	8.86	9.04	5	11.1	10.00			10.9
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.00015	<0.00010	<0.00010	5	<0.0010	0.000250			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000014	0.0000140	0.0000120	5	<0.00020	0.0000480			0.0001
Cu-D	mg/L	0.00067	0.00051	0.000612	0.000565	0.000543	5	0.00067	0.000580	*	*	0.000647
DOC	mg/L	2.3	2.3	2	2.1	2.0	5	2.3	2.1			2.3
Hard-D	mg/L	33.6	31.5	31.9	26.5	26.7	5	33.6	30.0			32.9
Fe-D	mg/L	0.0155	0.0165	0.0184	0.0197	0.0195	5	0.0197	0.0179			0.0196
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.0000050	0.0000060	5	<0.00020	0.00004220			0.0001
Mg-D	mg/L	1.39	1.30	1.35	1.05	0.997	5	1.39	1.217			1.374
Mn-D	mg/L	0.0022	0.0022	0.00281	0.00387	0.00453	5	0.00453	0.00312			0.00427
Mo-D	mg/L	<0.0010	<0.0010	0.000867	0.000169	0.000215	5	0.000867	0.000450			0.00072
Ni-D	mg/L	<0.0010	<0.0010	0.000081	0.000085	0.000074	5	<0.0010	0.000248			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.195	0.151	0.142	0.095	0.098	5	0.195	0.136			0.177
S-D	mg/L	7.9	6.3	5.4	<3.0	<3.0	5	7.9	4.52			7.26
Se-D	mg/L	<0.00010	<0.00010	0.000054	0.000052	0.000044	5	0.000054	0.000050			5.30E-05
Na-D	mg/L	10.1	8.94	7.61	4.11	3.51	5	10.1	6.85			9.64
Sr-D	mg/L	0.0529	0.0464	0.0429	0.0271	0.0255	5	0.0529	0.0390			0.0503
Zn-D	mg/L	<0.0050	<0.0050	0.00438	0.00775	0.0172	5	0.0172	0.00687			0.01342
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L					<0.53	1	<0.53	0.265			0.53

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E206618						Water Quality Guidelines				
StnName		Middle Quinsam Lake 4M										
StnCode		MQL4										
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	21	19	15	9.9	8.2	5	21	14.6	128		20.2
Turb-F	NTU	1.13	0.4	-0.19	0.57	-1.47	5	1.13	0.09			0.91
Alk-T	mg/L	33	31	30	27	28	5	33	29.8			32.2
Al-T	mg/L	0.0170	0.0154	0.0143	0.0141	0.0131	5	0.0170	0.0148	*		0.0164
As-T	mg/L	0.00011	0.00013	0.0001	<0.00010	<0.00010	5	0.00013	0.000088	0.005		0.000122
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0016	0.0015	0.0013	0.0011	0.0011	5	0.0016	0.0013	1.00		0.0016
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	10.3	10.3	9.2	8.48	8.55	5	10.3	9.37			10.3
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	0.00050	0.00059	<0.00050	0.00053	5	0.00059	0.000424			0.000566
Fe-T	mg/L	0.023	0.024	0.024	0.024	0.028	5	0.028	0.025	*	1.0	0.026
Hard-T	mg/L	30.9	30.8	27.5	25.5	25.3	5	30.9	28.0			30.9
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.26	1.22	1.1	1.04	0.951	5	1.26	1.114			1.244
Mn-T	mg/L	0.0033	0.0038	0.004	0.0040	0.0047	5	0.0047	0.0040	0.737	0.8706	0.0044
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0034	<0.0030	5	0.0034	0.00188	0.015		0.00264
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.164	0.150	0.121	0.101	0.090	5	0.164	0.125			0.158
S-T	mg/L	6.3	6.0	4.7	<3.0	<3.0	5	6.3	4.00			6.18
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	9.29	8.16	6.31	4.70	4.11	5	9.29	6.51			8.84
Sr-T	mg/L	0.0484	0.0469	0.0376	0.0297	0.0274	5	0.0484	0.0380			0.0478
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0152	0.0140	0.0134	0.0183	0.0119	5	0.0183	0.0146			0.0171
As-D	mg/L	0.00010	0.00011	0.000126	0.000143	0.000110	5	0.000143	0.000118			0.000136
Ba-D	mg/L	0.0017	0.0016	0.00146	0.00134	0.00124	5	0.0017	0.00147			0.00166
B-D	mg/L	<0.050	<0.050	0.029	0.021	0.021	5	0.029	0.0242			0.0274
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	0.0000130	<0.0000050	5	0.0000130	0.00000560	0.000087	0.00017	9.80E-06
Ca-D	mg/L	11.1	10.7	10.7	9.15	9.48	5	11.1	10.23			10.94
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	0.00010	5	<0.0010	0.000240			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000013	0.0000310	0.0000100	5	<0.00020	0.0000508			0.0001
Cu-D	mg/L	0.00057	0.00053	0.000581	0.00111	0.000570	5	0.00111	0.000672	*	*	0.000898
DOC	mg/L	2.4	2.3	2	2.1	1.9	5	2.4	2.1			2.4
Hard-D	mg/L	33.5	32.3	32.2	27.4	28.1	5	33.5	30.7			33
Fe-D	mg/L	0.0157	0.0166	0.0177	0.0324	0.0185	5	0.0324	0.0202			0.0268
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	0.0000190	0.0000060	5	<0.00020	0.00004550			0.0001
Mg-D	mg/L	1.39	1.34	1.31	1.10	1.07	5	1.39	1.24			1.37
Mn-D	mg/L	0.0019	0.0022	0.00188	0.00290	0.00335	5	0.00335	0.00245			0.00317
Mo-D	mg/L	<0.0010	<0.0010	0.000185	0.000179	0.000182	5	<0.0010	0.000309			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000058	0.000122	0.000074	5	<0.0010	0.000251			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	0.0000050	<0.0000050	5	<0.000020	0.00000600			1.00E-05
K-D	mg/L	0.198	0.154	0.13	0.109	0.100	5	0.198	0.138			0.18
S-D	mg/L	7.9	7.3	5.6	3.0	<3.0	5	7.9	5.06			7.66
Se-D	mg/L	<0.00010	<0.00010	0.000061	0.000063	0.000065	5	0.000065	0.000058			6.40E-05
Na-D	mg/L	10.2	9.32	7.59	4.93	4.39	5	10.2	7.29			9.85
Sr-D	mg/L	0.0528	0.0470	0.0433	0.0300	0.0297	5	0.0528	0.0406			0.0505
Zn-D	mg/L	<0.0050	<0.0050	0.0003	0.00151	0.00163	5	<0.0050	0.00169			0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E206618								Water Quality Guidelines		
StnName		Middle Quinsam Lake 9M										
StnCode		MQL9										
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	19	20	20	21	19	5	21	19.8	128		20.6
Turb-F	NTU	1.33	0.43	-0.02	0.75	-1.45	5	1.33	0.21			1.1
Alk-T	mg/L	31	31	29	30	31	5	31	30.4			31
Al-T	mg/L	0.0174	0.0158	0.0148	0.0123	0.0130	5	0.0174	0.0147	*		0.0168
As-T	mg/L	0.00010	0.00012	0.00011	<0.00010	0.00010	5	0.00012	0.000096	0.005		0.000116
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0017	0.0018	0.0016	0.0016	0.0017	5	0.0018	0.0017	1.00		0.0018
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	10.9	11.1	10.6	9.90	10.6	5	11.1	10.62			11.02
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00055	0.00052	0.00054	<0.00050	0.00050	5	0.00055	0.000472			0.000546
Fe-T	mg/L	0.026	0.022	0.022	0.016	0.015	5	0.026	0.020	*	1.0	0.024
Hard-T	mg/L	32.8	33.3	32.1	30.1	31.8	5	33.3	32.0			33.1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.38	1.33	1.34	1.31	1.29	5	1.38	1.33			1.36
Mn-T	mg/L	0.0052	0.0046	0.0055	0.0037	0.0027	5	0.0055	0.0043	0.737	0.8706	0.0054
P-T	mg/L	0.0031	<0.0030	<0.0030	0.0034	<0.0030	5	0.0034	0.00220	0.015		0.00328
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.154	0.154	0.142	0.141	0.144	5	0.154	0.147			0.154
S-T	mg/L	6.7	6.6	6.4	6.0	6.1	5	6.7	6.4			6.7
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	8.06	8.06	7.64	7.60	8.25	5	8.25	7.92			8.17
Sr-T	mg/L	0.0461	0.0494	0.0459	0.0448	0.0462	5	0.0494	0.0465			0.0481
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0130	0.0126	0.0111	0.00964	0.0106	5	0.0130	0.01139			0.01284
As-D	mg/L	0.00011	0.00010	0.00013	0.000109	0.000118	5	0.00013	0.000113			0.000125
Ba-D	mg/L	0.0016	0.0017	0.00173	0.00178	0.00162	5	0.00178	0.00169			0.00176
B-D	mg/L	<0.050	<0.050	0.035	0.032	0.035	5	0.035	0.0304			0.035
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	10.8	10.7	11.8	11.2	11.6	5	11.8	11.2			11.7
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000230			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000012	0.0000120	0.0000110	5	<0.00020	0.0000470			0.0001
Cu-D	mg/L	0.00052	0.00048	0.000526	0.000527	0.000491	5	0.000527	0.000509	*	*	0.000527
DOC	mg/L	2.3	2.1	2.1	2.2	2.1	5	2.3	2.2			2.3
Hard-D	mg/L	32.9	32.4	35.8	33.8	34.7	5	35.8	33.9			35.4
Fe-D	mg/L	0.0106	0.0099	0.0092	0.0089	0.0080	5	0.0106	0.0093			0.0103
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	<0.000050	<0.000050	5	<0.00020	0.00004150			0.0001
Mg-D	mg/L	1.41	1.35	1.53	1.43	1.41	5	1.53	1.43			1.49
Mn-D	mg/L	0.0015	<0.0010	0.000517	0.000448	0.000319	5	0.0015	0.000657			0.001107
Mo-D	mg/L	<0.0010	<0.0010	0.000206	0.000165	0.000184	5	<0.0010	0.000311			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000021	0.000062	0.000082	5	<0.0010	0.000233			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.157	0.144	0.156	0.158	0.158	5	0.158	0.155			0.158
S-D	mg/L	7.0	6.8	8.3	7.3	6.8	5	8.3	7.2			7.9
Se-D	mg/L	<0.00010	<0.00010	0.000058	0.000054	0.000043	5	0.000058	0.000051			5.60E-05
Na-D	mg/L	8.16	8.38	8.94	8.65	8.75	5	8.94	8.58			8.86
Sr-D	mg/L	0.0455	0.0476	0.0532	0.0465	0.0485	5	0.0532	0.0483			0.0513
Zn-D	mg/L	<0.0050	<0.0050	0.00023	0.00042	0.00091	5	<0.0050	0.00131			0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E206618						Water Quality Guidelines				
StnName		Middle Quinsam Lake 1MB										
StnCode		MLB										
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	22	23	22	22	21	5	23	22.0	128		22.6
Turb-F	NTU	1.6	0.57	-0.01	0.93	-1.03	5	1.6	0.41			1.33
Alk-T	mg/L	30	30	30	31	31	5	31	30.4			31
Al-T	mg/L	0.0154	0.0158	0.0138	0.0137	0.0128	5	0.0158	0.0143	*		0.0156
As-T	mg/L	<0.00010	0.00012	<0.00010	<0.00010	0.00011	5	0.00012	0.000076	0.005		0.000116
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0017	0.0019	0.0017	0.0018	0.0019	5	0.0019	0.0018	1.00		0.0019
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	11.4	11.4	10.5	10.9	11.2	5	11.4	11.0			11.3
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	0.00050	<0.00050	<0.00050	<0.00050	5	0.00050	0.000300			0.0004
Fe-T	mg/L	0.032	0.038	0.031	0.029	0.023	5	0.038	0.031	*	1.0	0.036
Hard-T	mg/L	32.8	34.6	31.6	33.4	33.8	5	34.6	33.2			34.3
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.33	1.46	1.33	1.51	1.45	5	1.51	1.42			1.49
Mn-T	mg/L	0.0113	0.0111	0.0091	0.0090	0.0070	5	0.0113	0.0095	0.737	0.8706	0.0112
P-T	mg/L	<0.0030	0.0039	0.0037	0.0036	<0.0030	5	0.0039	0.00284	0.015		0.00382
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.133	0.149	0.131	0.154	0.148	5	0.154	0.143			0.152
S-T	mg/L	6.7	7.5	6.4	6.7	6.5	5	7.5	6.8			7.2
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	7.25	7.74	7.21	8.35	8.43	5	8.43	7.80			8.4
Sr-T	mg/L	0.0430	0.0487	0.045	0.0479	0.0475	5	0.0487	0.0464			0.0484
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0125	0.0116	0.011	0.00874	0.00882	5	0.0125	0.01053			0.01214
As-D	mg/L	<0.00010	0.00011	0.000128	0.000109	0.000100	5	0.000128	0.000099			0.000121
Ba-D	mg/L	0.0019	0.0019	0.00198	0.00195	0.00198	5	0.00198	0.00194			0.00198
B-D	mg/L	<0.050	<0.050	0.034	0.031	0.036	5	0.036	0.0302			0.0352
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	11.6	11.6	12	11.8	12.5	5	12.5	11.9			12.3
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000230			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000009	0.0000100	0.0000090	5	<0.00020	0.0000456			0.0001
Cu-D	mg/L	0.00051	0.00047	0.000536	0.000520	0.000485	5	0.000536	0.000504	*	*	0.00053
DOC	mg/L	2.3	2.4	2	2.1	2.0	5	2.4	2.2			2.4
Hard-D	mg/L	35.2	35.1	36.8	35.8	37.5	5	37.5	36.1			37.2
Fe-D	mg/L	0.0140	0.0144	0.0121	0.0115	0.0102	5	0.0144	0.0124			0.0142
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	<0.000050	0.0000050	5	<0.00020	0.00004200			0.0001
Mg-D	mg/L	1.53	1.50	1.64	1.55	1.54	5	1.64	1.55			1.6
Mn-D	mg/L	0.0076	0.0051	0.00231	0.000981	0.00115	5	0.0076	0.003428			0.0066
Mo-D	mg/L	<0.0010	<0.0010	0.000196	0.000172	0.000161	5	<0.0010	0.000306			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000068	0.000086	0.000093	5	<0.0010	0.000249			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.151	0.141	0.163	0.151	0.162	5	0.163	0.154			0.163
S-D	mg/L	7.7	7.3	9.5	7.4	7.2	5	9.5	7.8			8.8
Se-D	mg/L	<0.00010	<0.00010	0.000053	0.000056	0.000055	5	0.000056	0.000053			5.60E-05
Na-D	mg/L	8.05	8.28	9.03	8.63	8.99	5	9.03	8.60			9.01
Sr-D	mg/L	0.0492	0.0486	0.0529	0.0480	0.0512	5	0.0529	0.0500			0.0522
Zn-D	mg/L	<0.0050	<0.0050	0.00029	0.00129	0.00097	5	<0.0050	0.00151			0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		LLE Zone of Dilution 2								Water Quality Guidelines		
StnName	StnCode	LLEZ2										
		9-Apr-25	16-Apr-25	23-Apr-25	30-Apr-25	6-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	23	32	32	34	37	5	37	31.6	128		35.8
Turb-F	NTU	2.31	-0.43	-0.24	-0.4	-1.43	5	2.31	-0.04			1.29
Alk-T	mg/L	20	23	22	24	26	5	26	23.0			25.2
Al-T	mg/L	0.0419	0.0349	0.0270	0.0282	0.0217	5	0.0419	0.0307	*		0.0391
As-T	mg/L	0.0003	0.00030	0.00028	0.00037	0.00035	5	0.00037	0.00032	0.005		0.00036
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.052	5	0.052	0.0304	1.2		0.0412
Ba-T	mg/L	0.003	0.0034	0.0032	0.0037	0.0036	5	0.0037	0.0034	1.00		0.0037
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	11.5	14.8	13.5	14.7	16.0	5	16.0	14.1			15.5
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.055	0.056	0.046	0.042	0.038	5	0.056	0.047	*	1.0	0.056
Hard-T	mg/L	35.6	44.7	41.1	45.5	48.1	5	48.1	43.0			47.1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.64	1.90	1.80	2.11	1.95	5	2.11	1.88			2.05
Mn-T	mg/L	0.0055	0.0061	0.0054	0.0059	0.0053	5	0.0061	0.0056	0.737	0.8706	0.006
P-T	mg/L	0.0077	0.0044	0.0037	0.0039	<0.0030	5	0.0077	0.00424	0.015		0.00638
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.153	0.175	0.158	0.191	0.183	5	0.191	0.172			0.188
S-T	mg/L	7.6	9.5	8.8	12.5	12.0	5	12.5	10.1			12.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	3.59	4.31	3.95	5.09	5.03	5	5.09	4.39			5.07
Sr-T	mg/L	0.0683	0.0859	0.0849	0.0996	0.105	5	0.105	0.0887			0.1028
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0309	0.0262	0.0268	0.0227	0.0206	5	0.0309	0.0254			0.0293
As-D	mg/L	0.00029	0.000298	0.000313	0.000328	0.000347	5	0.000347	0.000315			0.000339
Ba-D	mg/L	0.0032	0.00354	0.00374	0.00365	0.00400	5	0.00400	0.00363			0.0039
B-D	mg/L	<0.050	0.031	0.037	0.042	0.047	5	0.047	0.0364			0.045
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	11.6	14.5	15.6	15.5	17.0	5	17.0	14.8			16.4
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	0.00018	<0.00010	<0.00010	<0.00010	5	<0.0010	0.000166			0.000372
Co-D	mg/L	<0.00020	0.0000192	0.0000170	0.0000154	0.0000113	5	<0.00020	0.0000326			6.77E-05
Cu-D	mg/L	0.00041	0.000359	0.000419	0.000409	0.000372	5	0.000419	0.000394	*	*	0.000415
DOC	mg/L	3.3	3.3	3.1	3.0	2.9	5	3.3	3.1			3.3
Hard-D	mg/L	35.7	43.8	47.8	47.5	51.4	5	51.4	45.2			50
Fe-D	mg/L	0.0342	0.0340	0.0332	0.0250	0.0223	5	0.0342	0.0297			0.0341
Pb-D	mg/L	<0.00020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.00020	0.00002200			6.10E-05
Mg-D	mg/L	1.64	1.87	2.15	2.13	2.15	5	2.15	1.99			2.15
Mn-D	mg/L	0.0041	0.00423	0.00300	0.00235	0.00225	5	0.00423	0.00319			0.00418
Mo-D	mg/L	<0.0010	0.000159	0.000179	0.000162	0.000186	5	<0.0010	0.000237			0.000374
Ni-D	mg/L	<0.0010	0.000093	0.000090	0.000096	0.000084	5	<0.0010	0.000173			0.000338
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000020	0.00000400			7.00E-06
K-D	mg/L	0.148	0.172	0.180	0.191	0.199	5	0.199	0.178			0.196
S-D	mg/L	7.6	10.3	11.2	11.4	13.9	5	13.9	10.9			12.9
Se-D	mg/L	<0.00010	<0.000040	<0.000040	0.000041	<0.000040	5	<0.00010	0.0000302			4.64E-05
Na-D	mg/L	3.47	4.22	4.71	5.01	5.47	5	5.47	4.58			5.29
Sr-D	mg/L	0.0679	0.0905	0.100	0.101	0.112	5	0.112	0.0943			0.1076
Zn-D	mg/L	<0.0050	0.00377	0.0120	0.00910	0.00161	5	0.0120	0.00580			0.01084
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E292118							Water Quality Guidelines			
StnName		Lower Quinsam Lake 1M										
StnCode		LQL1										
		10-Apr-25	15-Apr-25	24-Apr-25	29-Apr-25	7-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	12	14	14	13	15	5	15	13.6	128		14.6
Turb-F	NTU	6.26	0	-0.25	-0.32	-0.96	5	6.26	0.95			3.76
Alk-T	mg/L	28	29	30	31	33	5	33	30.2			32.2
Al-T	mg/L	0.0404	0.0402	0.0312	0.0292	0.0260	5	0.0404	0.0334	*		0.0403
As-T	mg/L	0.00059	0.00066	0.00072	0.00072	0.00081	5	0.00081	0.00070	0.005		0.00077
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0033	0.0034	0.0034	0.0035	0.0035	5	0.0035	0.0034	1.00		0.0035
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	9.06	9.65	9.6	9.80	10.5	5	10.5	9.72			10.22
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00060	0.00068	0.00056	0.00063	0.00056	5	0.00068	0.00061			0.00066
Fe-T	mg/L	0.085	0.080	0.073	0.073	0.082	5	0.085	0.079	*	1.0	0.084
Hard-T	mg/L	27.2	29.2	28.8	29.4	31.4	5	31.4	29.2			30.6
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.10	1.25	1.18	1.19	1.25	5	1.25	1.19			1.25
Mn-T	mg/L	0.0045	0.0047	0.0048	0.0045	0.0046	5	0.0048	0.0046	0.737	0.8706	0.0048
P-T	mg/L	0.0055	0.0037	0.0041	<0.0030	<0.0030	5	0.0055	0.00326	0.015		0.00494
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.162	0.172	0.174	0.181	0.188	5	0.188	0.175			0.185
S-T	mg/L	3.6	4.2	5.1	4.7	5.2	5	5.2	4.6			5.2
Se-T	mg/L	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	5	0.0001	0.000060	0.002		8.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.11	6.26	6.19	6.56	7.93	5	7.93	6.41			7.38
Sr-T	mg/L	0.0403	0.0416	0.0448	0.0473	0.0497	5	0.0497	0.0447			0.0487
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0329	0.0271	0.0228	0.0233	0.0210	5	0.0329	0.0254			0.0306
As-D	mg/L	0.00057	0.00063	0.000651	0.00071	0.000772	5	0.000772	0.000667			0.000747
Ba-D	mg/L	0.0033	0.0034	0.00325	0.00349	0.00349	5	0.00349	0.00337			0.00345
B-D	mg/L	<0.050	<0.050	0.027	<0.050	0.035	5	0.035	0.0274			0.0318
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000400	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.16	10.0	9.08	9.82	11.3	5	11.3	9.87			10.78
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.0001	<0.0010	0.00013	5	<0.0010	0.00035			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000029	<0.00020	0.0000130	5	<0.00020	0.0000684			0.0001
Cu-D	mg/L	0.00063	0.00057	0.000532	0.00057	0.000565	5	0.00063	0.000573	*	*	0.000606
DOC	mg/L	3.3	3.0	3	2.7	2.7	5	3.3	2.9			3.2
Hard-D	mg/L	27.7	29.8	27.6	29.6	33.5	5	33.5	29.6			32
Fe-D	mg/L	0.0537	0.0518	0.0435	0.0463	0.0588	5	0.0588	0.0508			0.0568
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	<0.00020	0.0000050	5	<0.00020	0.00006150			0.0001
Mg-D	mg/L	1.18	1.14	1.2	1.23	1.31	5	1.31	1.21			1.28
Mn-D	mg/L	0.0033	0.0034	0.00252	0.0019	0.00125	5	0.0034	0.00247			0.00336
Mo-D	mg/L	<0.0010	<0.0010	0.000147	<0.0010	0.000183	5	<0.0010	0.000366			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000094	<0.0010	0.000098	5	<0.0010	0.000338			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000700			1.00E-05
K-D	mg/L	0.183	0.178	0.167	0.180	0.203	5	0.203	0.182			0.195
S-D	mg/L	3.7	4.4	3.4	5.0	5.6	5	5.6	4.4			5.4
Se-D	mg/L	<0.00010	<0.00010	0.000085	<0.00010	0.000104	5	0.000104	0.000068			9.60E-05
Na-D	mg/L	5.53	6.05	6.23	6.85	8.01	5	8.01	6.53			7.55
Sr-D	mg/L	0.0414	0.0449	0.0437	0.0464	0.0517	5	0.0517	0.0456			0.0496
Zn-D	mg/L	0.0118	<0.0050	0.0329	<0.0050	0.00128	5	0.0329	0.01020			0.02446
N-NO23	mg/L	<0.020	0.030	<0.020	<0.020	<0.020	5	0.030	0.0140			0.022
Chlr-a	ug/L					1.1	1	1.1	1.1			1.1

Notes: *Calculated guideline. Refer to Exceedance Tables.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E292118								Water Quality Guidelines		
StnName		Lower Quinsam Lake 4M										
StnCode		LQL4										
		10-Apr-25	15-Apr-25	24-Apr-25	29-Apr-25	7-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	12	14	14	13	15	5	15	13.6	128		14.6
Turb-F	NTU	2.1	-0.71	-0.16	-0.75	-0.76	5	2.1	-0.06			1.2
Alk-T	mg/L	28	29	30	31	33	5	33	30.2			32.2
Al-T	mg/L	0.0389	0.0411	0.0356	0.0323	0.0322	5	0.0411	0.0360	*		0.0402
As-T	mg/L	0.00060	0.00066	0.00069	0.00078	0.00077	5	0.00078	0.00070	0.005		0.00078
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0032	0.0034	0.0035	0.0037	0.0037	5	0.0037	0.0035	1.00		0.0037
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	8.89	9.75	9.63	10.4	10.6	5	10.6	9.85			10.52
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00057	0.00056	0.00062	0.00064	0.00062	5	0.00064	0.00060			0.00063
Fe-T	mg/L	0.081	0.080	0.08	0.080	0.101	5	0.101	0.084	*	1.0	0.093
Hard-T	mg/L	26.5	29.5	28.9	31.1	31.4	5	31.4	29.5			31.3
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.05	1.25	1.18	1.24	1.22	5	1.25	1.19			1.25
Mn-T	mg/L	0.0044	0.0047	0.0051	0.0048	0.0054	5	0.0054	0.0049	0.737	0.8706	0.0053
P-T	mg/L	0.0036	0.0041	0.0048	0.0030	<0.0030	5	0.0048	0.00310	0.015		0.00452
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.157	0.174	0.19	0.184	0.195	5	0.195	0.180			0.193
S-T	mg/L	3.7	4.2	5.3	3.7	4.1	5	5.3	4.2			4.9
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.14	6.32	6.23	6.87	7.85	5	7.85	6.48			7.46
Sr-T	mg/L	0.0398	0.0427	0.0448	0.0500	0.0505	5	0.0505	0.0456			0.0503
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0335	0.0276	0.023	0.0220	0.0217	5	0.0335	0.0256			0.0311
As-D	mg/L	0.00058	0.00064	0.000668	0.00071	0.000742	5	0.000742	0.000668			0.000729
Ba-D	mg/L	0.0034	0.0034	0.00329	0.0034	0.00362	5	0.00362	0.00342			0.00353
B-D	mg/L	<0.050	<0.050	0.027	<0.050	0.036	5	0.036	0.0276			0.0324
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000400	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.36	9.57	9.24	10.1	11.3	5	11.3	9.91			10.82
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.0010	0.00015	5	<0.0010	0.000340			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000026	<0.00020	0.0000140	5	<0.00020	0.0000680			0.0001
Cu-D	mg/L	0.00069	0.00057	0.000521	0.00056	0.000563	5	0.00069	0.000581	*	*	0.000642
DOC	mg/L	3.7	3.1	2.9	2.8	2.6	5	3.7	3.0			3.5
Hard-D	mg/L	28.3	28.6	28.1	30.2	33.6	5	33.6	29.8			32.2
Fe-D	mg/L	0.0555	0.0519	0.0445	0.0456	0.0563	5	0.0563	0.0508			0.056
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	<0.00020	<0.000050	5	<0.00020	0.00006100			0.0001
Mg-D	mg/L	1.19	1.14	1.21	1.21	1.31	5	1.31	1.21			1.27
Mn-D	mg/L	0.0035	0.0032	0.00254	0.0018	0.000918	5	0.0035	0.002392			0.00338
Mo-D	mg/L	<0.0010	<0.0010	0.000122	<0.0010	0.000154	5	<0.0010	0.000355			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000101	<0.0010	0.000122	5	<0.0010	0.000345			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000700			1.00E-05
K-D	mg/L	0.188	0.172	0.172	0.183	0.208	5	0.208	0.185			0.2
S-D	mg/L	5.3	4.3	3.1	4.4	5.0	5	5.3	4.4			5.2
Se-D	mg/L	<0.00010	<0.00010	0.000109	<0.00010	0.000071	5	0.000109	0.000066			9.40E-05
Na-D	mg/L	5.69	5.73	6.27	6.44	8.28	5	8.28	6.48			7.54
Sr-D	mg/L	0.0416	0.0445	0.0434	0.0463	0.0520	5	0.0520	0.0456			0.0497
Zn-D	mg/L	<0.0050	<0.0050	0.00063	<0.0050	0.00021	5	<0.0050	0.00167			0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E292118							Water Quality Guidelines			
StnName		Lower Quinsam Lake 9M										
StnCode		LQL9										
		10-Apr-25	15-Apr-25	24-Apr-25	29-Apr-25	7-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	12	14	14	13	13	5	14	13.2	128		14
Turb-F	NTU	3.6	-0.88	-0.08	-0.84	-0.78	5	3.6	0.20			2.13
Alk-T	mg/L	28	28	29	30	31	5	31	29.2			30.6
Al-T	mg/L	0.0436	0.0411	0.0385	0.0345	0.0309	5	0.0436	0.0377	*		0.0426
As-T	mg/L	0.00064	0.00067	0.00071	0.00069	0.00069	5	0.00071	0.00068	0.005		0.0007
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0033	0.0035	0.0035	0.0035	0.0035	5	0.0035	0.0035	1.00		0.0035
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	9.35	9.93	9.88	9.87	9.76	5	9.93	9.76			9.91
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00073	0.00060	0.00062	0.00061	0.00058	5	0.00073	0.00063			0.00069
Fe-T	mg/L	0.090	0.085	0.08	0.080	0.070	5	0.090	0.081	*	1.0	0.088
Hard-T	mg/L	27.9	30.0	29.6	29.7	29.3	5	30.0	29.3			29.9
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.11	1.27	1.2	1.22	1.19	5	1.27	1.20			1.25
Mn-T	mg/L	0.0049	0.0048	0.0055	0.0057	0.0054	5	0.0057	0.0053	0.737	0.8706	0.0056
P-T	mg/L	0.0031	0.0040	0.0034	0.0040	<0.0030	5	0.0040	0.00320	0.015		0.004
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.165	0.180	0.187	0.178	0.170	5	0.187	0.176			0.184
S-T	mg/L	3.6	4.4	5.6	3.6	4.2	5	5.6	4.3			5.1
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.37	6.51	6.29	6.35	6.68	5	6.68	6.24			6.61
Sr-T	mg/L	0.0414	0.0430	0.0463	0.0469	0.0460	5	0.0469	0.0447			0.0467
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0387	0.0284	0.0236	0.0239	0.0233	5	0.0387	0.0276			0.0346
As-D	mg/L	0.00059	0.00064	0.000623	0.00065	0.000679	5	0.000679	0.000636			0.000667
Ba-D	mg/L	0.0034	0.0033	0.00319	0.0034	0.00354	5	0.00354	0.00337			0.00348
B-D	mg/L	<0.050	<0.050	0.027	<0.050	0.032	5	0.032	0.0268			0.03
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.000010	0.0000050	5	0.0000050	0.00000450	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.40	9.59	9.03	9.81	10.9	5	10.9	9.75			10.46
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.00012	<0.0010	0.00012	5	<0.0010	0.00035			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000026	<0.00020	0.0000170	5	<0.00020	0.0000686			0.0001
Cu-D	mg/L	0.00068	0.00056	0.000551	0.00055	0.000573	5	0.00068	0.000583	*	*	0.000637
DOC	mg/L	3.6	3.0	2.8	2.9	2.8	5	3.6	3.0			3.4
Hard-D	mg/L	28.3	28.7	27.4	29.4	32.5	5	32.5	29.3			31.3
Fe-D	mg/L	0.0562	0.0517	0.0446	0.0454	0.0478	5	0.0562	0.0491			0.0544
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	<0.00020	<0.000050	5	<0.00020	0.00006100			0.0001
Mg-D	mg/L	1.18	1.16	1.18	1.19	1.29	5	1.29	1.20			1.25
Mn-D	mg/L	0.0037	0.0033	0.00283	0.0025	0.00125	5	0.0037	0.00272			0.00354
Mo-D	mg/L	<0.0010	<0.0010	0.000138	<0.0010	0.000166	5	<0.0010	0.000361			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.00012	<0.0010	0.000114	5	<0.0010	0.000347			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000700			1.00E-05
K-D	mg/L	0.188	0.176	0.176	0.172	0.197	5	0.197	0.178			0.193
S-D	mg/L	4.6	5.3	3.4	3.4	4.2	5	5.3	4.2			5
Se-D	mg/L	<0.00010	<0.00010	0.000089	<0.00010	0.000093	5	0.000093	0.000066			9.10E-05
Na-D	mg/L	5.67	5.94	6.02	6.19	6.92	5	6.92	6.15			6.63
Sr-D	mg/L	0.0419	0.0447	0.043	0.0462	0.0477	5	0.0477	0.0447			0.0471
Zn-D	mg/L	<0.0050	<0.0050	0.00039	<0.0050	0.00030	5	<0.0050	0.00164			0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Lakes Spring 17 Page(s)

EMS ID		E292118						Water Quality Guidelines				
StnName		Lower Quinsam Lake 1MB										
StnCode		LQLB										
		10-Apr-25	15-Apr-25	24-Apr-25	29-Apr-25	7-May-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	13	13	14	13	13	5	14	13.2	128		13.6
Turb-F	NTU	4.11	-0.73	-0.14	-0.55	-0.62	5	4.11	0.41			2.41
Alk-T	mg/L	27	28	30	30	32	5	32	29.4			31.2
Al-T	mg/L	0.0436	0.0432	0.0359	0.0387	0.0330	5	0.0436	0.0389	*		0.0434
As-T	mg/L	0.00063	0.00062	0.00071	0.00080	0.00077	5	0.00080	0.00071	0.005		0.00079
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0034	0.0034	0.0035	0.0040	0.0037	5	0.0040	0.0036	1.00		0.0039
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	9.34	9.53	9.56	10.4	9.92	5	10.4	9.75			10.21
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00068	0.00058	0.00057	0.00069	0.00278	5	0.00278	0.00106			0.00194
Fe-T	mg/L	0.088	0.081	0.108	0.134	0.141	5	0.141	0.110	*	1.0	0.138
Hard-T	mg/L	27.9	28.8	28.6	31.3	29.6	5	31.3	29.2			30.6
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.11	1.20	1.14	1.28	1.18	5	1.28	1.18			1.25
Mn-T	mg/L	0.0050	0.0048	0.01	0.0139	0.0174	5	0.0174	0.0102	0.737	0.8706	0.016
P-T	mg/L	0.0036	0.0036	0.0037	0.0046	0.0074	5	0.0074	0.0046	0.015		0.0063
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.167	0.169	0.174	0.193	0.171	5	0.193	0.175			0.185
S-T	mg/L	3.8	4.0	4.2	4.3	4.3	5	4.3	4.1			4.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.33	5.91	5.8	6.48	6.26	5	6.48	5.96			6.39
Sr-T	mg/L	0.0420	0.0406	0.0451	0.0497	0.0452	5	0.0497	0.0445			0.0479
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0321	0.0277	0.0238	0.0238	0.0226	5	0.0321	0.0260			0.0303
As-D	mg/L	0.00055	0.00058	0.000634	0.00065	0.000703	5	0.000703	0.000623			0.000682
Ba-D	mg/L	0.0033	0.0033	0.00348	0.0036	0.00374	5	0.00374	0.00348			0.00368
B-D	mg/L	<0.050	<0.050	0.026	<0.050	0.030	5	0.030	0.0262			0.0284
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.000010	0.0000050	5	0.0000050	0.00000450	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.30	9.41	9.17	9.55	10.5	5	10.5	9.59			10.12
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	0.00012	<0.0010	0.00012	5	<0.0010	0.00035			0.0005
Co-D	mg/L	<0.00020	<0.00020	0.000034	<0.00020	0.0000330	5	<0.00020	0.0000734			0.0001
Cu-D	mg/L	0.00127	0.00057	0.000535	0.00055	0.000551	5	0.00127	0.000695	*	*	0.00099
DOC	mg/L	3.3	2.9	2.9	2.8	2.8	5	3.3	2.9			3.1
Hard-D	mg/L	28.1	28.0	27.9	28.8	31.3	5	31.3	28.8			30.3
Fe-D	mg/L	0.0490	0.0489	0.0629	0.0700	0.0832	5	0.0832	0.0628			0.0779
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	<0.00020	0.0000050	5	<0.00020	0.00006150			0.0001
Mg-D	mg/L	1.19	1.10	1.21	1.20	1.27	5	1.27	1.19			1.25
Mn-D	mg/L	0.0036	0.0032	0.00736	0.0094	0.0131	5	0.0131	0.00733			0.01162
Mo-D	mg/L	<0.0010	<0.0010	0.000122	<0.0010	0.000218	5	<0.0010	0.000368			0.0005
Ni-D	mg/L	<0.0010	<0.0010	0.000112	<0.0010	0.000152	5	<0.0010	0.000353			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000700			1.00E-05
K-D	mg/L	0.179	0.171	0.163	0.179	0.201	5	0.201	0.179			0.192
S-D	mg/L	4.2	3.9	3.8	4.3	4.1	5	4.3	4.1			4.3
Se-D	mg/L	<0.00010	<0.00010	0.00009	<0.00010	0.000081	5	0.00009	0.000064			8.60E-05
Na-D	mg/L	5.62	5.55	5.9	5.98	6.52	5	6.52	5.91			6.3
Sr-D	mg/L	0.0417	0.0432	0.0427	0.0459	0.0466	5	0.0466	0.0440			0.0463
Zn-D	mg/L	<0.0050	0.0172	0.00045	<0.0050	0.00130	5	0.0172	0.00479			0.01132
N-NO23	mg/L	0.085	<0.020	<0.020	<0.020	0.023	5	0.085	0.0276			0.0602

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206619										
StnName		Long Lake Middle 1 M										
StnCode		LLM1										
		9-Jul-25	16-Jul-25	23-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th
										Chronic	Acute	Percentile
SO4-D	mg/L	43	46	48	51	52	5	52	48.0	128		51.6
Turb-F	NTU	2.5	0.7	3.3	0.5	-1.3	5	3.3	1.1			3
Alk-T	mg/L	29	32	31	32	33	5	33	31.4			32.6
Al-T	mg/L	0.0119	0.0120	0.01	0.0098	0.0098	5	0.0120	0.0107	*		0.012
As-T	mg/L	0.000534	0.00060	0.00055	0.00059	0.000597	5	0.00060	0.000574	0.005		0.000599
B-T	mg/L	0.051	0.053	0.052	0.060	0.058	5	0.060	0.055	1.2		0.059
Ba-T	mg/L	0.00452	0.0044	0.0045	0.0049	0.00492	5	0.00492	0.00465	1.00		0.00491
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	19.7	21.1	21.6	21.7	21.9	5	21.9	21.2			21.8
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00014	5	<0.0010	0.000338			0.0005
Co-T	mg/L	0.0000112	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000632	0.004	0.11	0.0001
Cu-T	mg/L	0.000363	<0.00050	0.00059	<0.00050	0.00026	5	0.00059	0.000343			0.000499
Fe-T	mg/L	0.0356	0.038	0.373	0.028	0.0260	5	0.373	0.1001	*	1.0	0.239
Hard-T	mg/L	59.6	63.8	66.1	65.7	66.4	5	66.4	64.3			66.3
Pb-T	mg/L	0.000503	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0000721	0.004	0.0176	0.0001
Mg-T	mg/L	2.49	2.68	2.95	2.81	2.86	5	2.95	2.76			2.91
Mn-T	mg/L	0.00682	0.0057	0.0073	0.0053	0.00521	5	0.0073	0.00607	0.737	0.8706	0.00711
P-T	mg/L	<0.0030	0.0034	0.0034	<0.0030	0.011	5	0.011	0.00416	0.015		0.00796
Mo-T	mg/L	0.000189	<0.0010	<0.0010	<0.0010	0.000180	5	<0.0010	0.000374	7.6	46.0	0.0005
Ni-T	mg/L	0.000106	<0.0010	<0.0010	<0.0010	0.00012	5	<0.0010	0.000345	0.025		0.0005
K-T	mg/L	0.217	0.237	0.238	0.245	<0.25	5	0.245	0.212			0.242
S-T	mg/L	14.3	15.9	14.3	16.9	17.7	5	17.7	15.8			17.4
Se-T	mg/L	<0.000040	<0.00010	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000380	0.002		5.00E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.97	6.65	6.67	6.96	6.92	5	6.96	6.63			6.94
Sr-T	mg/L	0.128	0.128	0.135	0.146	0.140	5	0.146	0.135			0.144
Zn-T	mg/L	0.00062	<0.0050	0.0616	<0.0050	<0.0010	5	0.0616	0.01354	0.0075	0.033	0.03796
Al-D	mg/L	0.0142	0.0105	0.0099	0.0083	0.00800	5	0.0142	0.01018			0.01272
As-D	mg/L	0.000623	0.000544	0.00063	0.00058	0.000585	5	0.00063	0.000592			0.000627
Ba-D	mg/L	0.00444	0.00458	0.0046	0.0048	0.00496	5	0.00496	0.00468			0.0049
B-D	mg/L	0.048	0.040	0.061	0.055	0.057	5	0.061	0.052			0.059
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	0.0000050	5	0.0000050	0.00000400	0.000087	0.00017	5.00E-06
Ca-D	mg/L	19.1	20.4	21.2	22.0	21.8	5	22.0	20.9			21.9
Cl-D	mg/L	<1.0	<1.0				2	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00012	0.00016	<0.0010	<0.0010	0.00015	5	<0.0010	0.00029			0.0005
Co-D	mg/L	0.0000100	0.0000180	<0.00020	<0.00020	0.0000096	5	<0.00020	0.0000475			0.0001
Cu-D	mg/L	0.000402	0.000340	0.00033	0.00031	0.000313	5	0.000402	0.000339	*	*	0.000377
DOC	mg/L	3.2	3.1	3.1	3.1	3.2	5	3.2	3.1			3.2
Hard-D	mg/L	58.1	61.7	65	66.9	65.8	5	66.9	63.5			66.5
Fe-D	mg/L	0.0301	0.0272	0.0225	0.0195	0.0184	5	0.0301	0.0235			0.0289
Pb-D	mg/L	0.0000050	0.0000140	<0.00020	<0.00020	0.0000054	5	<0.00020	0.0000449			0.0001
Mg-D	mg/L	2.54	2.63	2.92	2.90	2.79	5	2.92	2.76			2.91
Mn-D	mg/L	0.00362	0.00206	0.0013	<0.0010	0.00133	5	0.00362	0.00176			0.003
Mo-D	mg/L	0.000206	0.000207	<0.0010	<0.0010	0.000253	5	<0.0010	0.000333			0.0005
Ni-D	mg/L	0.000097	0.000069	<0.0010	<0.0010	0.000102	5	<0.0010	0.000254			0.0005
Ag-D	mg/L	0.0000069	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000638			1.00E-05
K-D	mg/L	0.220	0.234	0.235	0.258	0.241	5	0.258	0.238			0.251
S-D	mg/L	13.7	14.6	16.1	15.9	17.4	5	17.4	15.5			16.9
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	5.98	6.45	7.28	7.06	6.91	5	7.28	6.74			7.19
Sr-D	mg/L	0.118	0.129	0.129	0.147	0.135	5	0.147	0.132			0.142
Zn-D	mg/L	0.00068	0.00104	<0.0050	<0.0050	0.00083	5	<0.0050	0.00151	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L				<0.53		1	<0.53	0.265			0.53
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206619										
StnName		Long Lake Middle 4 M										
StnCode		LLM4								Water Quality Guidelines		90th
		9-Jul-25	16-Jul-25	23-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile
SO4-D	mg/L	46	54	52	51	52	5	54	51.0	128		53.2
Turb-F	NTU	2.8	0.9	3.3	0.5	-1.3	5	3.3	1.2			3.1
Alk-T	mg/L	31	32	32	32	32	5	32	31.8			32
Al-T	mg/L	0.0123	0.0111	0.0102	0.0100	0.0084	5	0.0123	0.0104	*		0.0118
As-T	mg/L	0.000530	0.00055	0.00045	0.00060	0.000582	5	0.00060	0.000542	0.005		0.000593
B-T	mg/L	0.053	0.058	0.055	0.057	0.058	5	0.058	0.056	1.2		0.058
Ba-T	mg/L	0.00472	0.0049	0.005	0.0047	0.00465	5	0.005	0.00479	1.00		0.00496
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	20.3	23.1	22.5	21.1	21.4	5	23.1	21.7			22.9
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00018	5	<0.0010	0.000346			0.0005
Co-T	mg/L	0.0000140	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000638	0.004	0.11	0.0001
Cu-T	mg/L	0.000365	<0.00050	<0.00050	<0.00050	0.00023	5	0.000365	0.000269			0.000319
Fe-T	mg/L	0.0381	0.037	0.037	0.027	0.0247	5	0.0381	0.0328	*	1.0	0.0377
Hard-T	mg/L	61.5	69.6	68.8	64.0	65.1	5	69.6	65.8			69.3
Pb-T	mg/L	0.0000089	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.0000638	0.004	0.0176	0.0001
Mg-T	mg/L	2.59	2.90	3.05	2.76	2.83	5	3.05	2.83			2.99
Mn-T	mg/L	0.00760	0.0075	0.0074	0.0051	0.00492	5	0.00760	0.00650	0.737	0.8706	0.00756
P-T	mg/L	<0.0030	0.0049	0.0031	<0.0030	0.0047	5	0.0049	0.00314	0.015		0.00482
Mo-T	mg/L	0.000177	<0.0010	<0.0010	<0.0010	0.000171	5	<0.0010	0.000370	7.6	46.0	0.0005
Ni-T	mg/L	0.000107	<0.0010	<0.0010	<0.0010	0.00014	5	<0.0010	0.000349	0.025		0.0005
K-T	mg/L	0.228	0.262	0.249	0.237	<0.25	5	0.262	0.220			0.257
S-T	mg/L	15.4	17.5	15	16.7	17.5	5	17.5	16.4			17.5
Se-T	mg/L	<0.000040	<0.00010	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000380	0.002		5.00E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.48	7.41	7.17	6.83	6.94	5	7.41	6.97			7.31
Sr-T	mg/L	0.136	0.146	0.149	0.142	0.139	5	0.149	0.142			0.148
Zn-T	mg/L	0.00026	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00165	0.0075	0.033	0.0025
Al-D	mg/L	0.0110	0.0121	0.0093	0.0089	0.00783	5	0.0121	0.00983			0.01166
As-D	mg/L	0.000498	0.000456	0.00056	0.00051	0.000610	5	0.000610	0.000527			0.00059
Ba-D	mg/L	0.00456	0.00495	0.0051	0.0044	0.00473	5	0.0051	0.00475			0.00504
B-D	mg/L	0.051	0.045	0.067	0.058	0.058	5	0.067	0.056			0.063
Cd-D	mg/L	0.0000074	<0.0000050	<0.000010	<0.000010	<0.0000050	5	0.0000074	0.00000448	0.000087	0.00017	6.44E-06
Ca-D	mg/L	21.1	22.7	23.2	22.3	21.6	5	23.2	22.2			23
Cl-D	mg/L	<1.0	<1.0				2	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00012	0.00018	<0.0010	<0.0010	0.00013	5	<0.0010	0.00029			0.0005
Co-D	mg/L	0.0000195	0.0000140	<0.00020	<0.00020	0.0000095	5	<0.00020	0.0000486			0.0001
Cu-D	mg/L	0.000339	0.000369	0.00034	0.00030	0.000331	5	0.000369	0.000336	*	*	0.000357
DOC	mg/L	3.6	3.2	3.2	3.2	3.3	5	3.6	3.3			3.5
Hard-D	mg/L	63.6	69.1	70.4	68.0	65.6	5	70.4	67.3			69.9
Fe-D	mg/L	0.0302	0.0283	0.0255	0.0198	0.0182	5	0.0302	0.0244			0.0294
Pb-D	mg/L	0.0000093	<0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004286			0.0001
Mg-D	mg/L	2.65	3.02	3.04	2.99	2.86	5	3.04	2.91			3.03
Mn-D	mg/L	0.00281	0.00308	0.0022	<0.0010	0.00117	5	0.00308	0.00195			0.00297
Mo-D	mg/L	0.000193	0.000183	<0.0010	<0.0010	0.000287	5	<0.0010	0.000333			0.0005
Ni-D	mg/L	0.000116	0.000101	<0.0010	<0.0010	0.000052	5	<0.0010	0.000254			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.231	0.269	0.253	0.248	0.244	5	0.269	0.249			0.263
S-D	mg/L	15.3	18.5	18	16.8	17.0	5	18.5	17.1			18.3
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	6.50	7.41	7.97	6.84	7.04	5	7.97	7.15			7.75
Sr-D	mg/L	0.126	0.148	0.146	0.136	0.136	5	0.148	0.138			0.147
Zn-D	mg/L	0.00040	0.00086	<0.0050	<0.0050	0.00071	5	<0.0050	0.00139	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	0.277	<0.020	<0.020	<0.020	5	0.277	0.0634			0.1702

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206619										
StnName		Long Lake Middle 9 M										
StnCode		LLM9										
		9-Jul-25	16-Jul-25	23-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th
										Chronic	Acute	Percentile
SO4-D	mg/L	80	83	81	81	80	5	83	81.0	128		82.2
Turb-F	NTU	3.2	1.2	3.7	0.8	-0.7	5	3.7	1.6			3.5
Alk-T	mg/L	39	40	40	38	39	5	40	39.2			40
Al-T	mg/L	0.0175	0.0177	0.0181	0.0173	0.0151	5	0.0181	0.0171	*		0.0179
As-T	mg/L	0.000256	0.00024	0.00021	0.00025	0.000269	5	0.000269	0.000245	0.005		0.000264
B-T	mg/L	0.075	0.076	0.075	0.078	0.080	5	0.080	0.077	1.2		0.079
Ba-T	mg/L	0.00635	0.0058	0.0061	0.0060	0.00575	5	0.00635	0.00600	1.00		0.00625
Cd-T	mg/L	0.0000102	<0.000010	<0.000010	<0.000010	<0.0000050	5	0.0000102	0.00000554			8.12E-06
Ca-T	mg/L	32.9	33.2	34.1	31.9	31.9	5	34.1	32.8			33.7
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00015	5	<0.0010	0.000340			0.0005
Co-T	mg/L	0.0000194	<0.00020	<0.00020	<0.00020	0.000016	5	<0.00020	0.0000671	0.004	0.11	0.0001
Cu-T	mg/L	0.000384	<0.00050	<0.00050	<0.00050	0.00030	5	0.000384	0.000287			0.00035
Fe-T	mg/L	0.0268	0.028	0.028	0.024	0.0251	5	0.028	0.0264	*	1.0	0.028
Hard-T	mg/L	98.3	98.2	102	94.7	94.8	5	102	97.6			100.5
Pb-T	mg/L	<0.0000050	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.00006250	0.004	0.0176	0.0001
Mg-T	mg/L	3.93	3.73	4.23	3.66	3.68	5	4.23	3.85			4.11
Mn-T	mg/L	0.00803	0.0075	0.0064	0.0056	0.0104	5	0.0104	0.00759	0.737	0.8706	0.00945
P-T	mg/L	<0.0030	0.0032	0.0033	<0.0030	0.0069	5	0.0069	0.00328	0.015		0.00546
Mo-T	mg/L	0.000129	<0.0010	<0.0010	<0.0010	0.000125	5	<0.0010	0.000351	7.6	46.0	0.0005
Ni-T	mg/L	0.000214	<0.0010	<0.0010	<0.0010	0.00017	5	<0.0010	0.000377	0.025		0.0005
K-T	mg/L	0.390	0.388	0.398	0.376	0.37	5	0.398	0.384			0.395
S-T	mg/L	28.2	28.1	26.3	28.0	26.5	5	28.2	27.4			28.2
Se-T	mg/L	<0.000040	<0.00010	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000380	0.002		5.00E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	10.8	10.9	11.3	10.8	10.5	5	11.3	10.9			11.1
Sr-T	mg/L	0.245	0.229	0.241	0.240	0.223	5	0.245	0.236			0.243
Zn-T	mg/L	<0.00010	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.001610	0.0075	0.033	0.0025
Al-D	mg/L	0.0145	0.0154	0.0175	0.0156	0.0157	5	0.0175	0.0157			0.0168
As-D	mg/L	0.000286	0.000210	0.00027	0.00017	0.000247	5	0.000286	0.000237			0.00028
Ba-D	mg/L	0.00551	0.00593	0.0063	0.0056	0.00580	5	0.0063	0.00583			0.00615
B-D	mg/L	0.068	0.064	0.085	0.078	0.076	5	0.085	0.074			0.082
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	28.7	32.6	34	32.3	31.9	5	34	31.9			33.4
Cl-D	mg/L	<1.0	<1.0				2	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.00010	0.00022	<0.0010	<0.0010	0.00014	5	<0.0010	0.000282			0.0005
Co-D	mg/L	0.0000150	0.0000150	<0.00020	<0.00020	0.0000168	5	<0.00020	0.0000494			0.0001
Cu-D	mg/L	0.000365	0.000364	0.00036	0.00036	0.000387	5	0.000387	0.000367	*	*	0.000378
DOC	mg/L	3.1	3.2	3	3.1	3.3	5	3.3	3.1			3.3
Hard-D	mg/L	86.2	97.3	102	97.0	94.7	5	102	95.4			100.1
Fe-D	mg/L	0.0219	0.0197	0.0192	0.0175	0.0187	5	0.0219	0.0194			0.021
Pb-D	mg/L	0.0000050	0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004250			0.0001
Mg-D	mg/L	3.52	3.85	4.17	3.95	3.66	5	4.17	3.83			4.08
Mn-D	mg/L	0.00236	0.00364	0.0023	0.0023	0.00690	5	0.00690	0.00350			0.0056
Mo-D	mg/L	0.000160	0.000134	<0.0010	<0.0010	0.000205	5	<0.0010	0.000300			0.0005
Ni-D	mg/L	0.000189	0.000189	<0.0010	<0.0010	0.000159	5	<0.0010	0.000307			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.336	0.383	0.393	0.390	0.373	5	0.393	0.375			0.392
S-D	mg/L	24.3	27.5	28.9	27.3	28.0	5	28.9	27.2			28.5
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	9.85	10.6	11.9	11.3	10.8	5	11.9	10.89			11.66
Sr-D	mg/L	0.202	0.238	0.23	0.224	0.216	5	0.238	0.222			0.235
Zn-D	mg/L	0.00181	0.00067	<0.0050	<0.0050	0.00082	5	<0.0050	0.00166	0.0075	0.033	0.0025
N-NO23	mg/L	0.030	0.056	0.044	0.041	0.035	5	0.056	0.041			0.051

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

E206619												
Long Lake Middle 1M From B												
StnName	StnCode	LLMB								Water Quality Guidelines		90th Percentile
		9-Jul-25	16-Jul-25	23-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	
SO4-D	mg/L	79	53	82	83	87	5	87	76.8	128		85.4
Turb-F	NTU	3.9	1.6	4.4	1.3	-0.4	5	4.4	2.2			4.2
Alk-T	mg/L	40	42	40	40	41	5	42	40.6			41.6
Al-T	mg/L	0.0182	0.0186	0.0194	0.0168	0.0152	5	0.0194	0.0176	*		0.0191
As-T	mg/L	0.000347	0.00036	0.00034	0.00031	0.000362	5	0.000362	0.000344	0.005		0.000361
B-T	mg/L	0.076	0.077	0.073	0.079	0.079	5	0.079	0.077	1.2		0.079
Ba-T	mg/L	0.00630	0.0082	0.0084	0.0082	0.00893	5	0.00893	0.00801	1.00		0.00872
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	33.0		33.3	31.7	30.9	5	33.3	32.4			33.3
Cr-T	mg/L	0.00010	<0.0010	<0.0010	<0.0010	0.00037	5	<0.0010	0.00039			0.0005
Co-T	mg/L	0.0000239	<0.00020	<0.00020	<0.00020	0.000057	5	<0.00020	0.0000762	0.004	0.11	0.0001
Cu-T	mg/L	0.000542	<0.00050	<0.00050	<0.00050	0.00026	5	0.000542	0.000310			0.000429
Fe-T	mg/L	0.0408	0.078	0.076	0.066	0.0887	5	0.0887	0.0699	*	1.0	0.0844
Hard-T	mg/L	98.0	98.0	99.9	94.3	92.0	5	99.9	96.4			99.1
Pb-T	mg/L	<0.0000050	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.00006250	0.004	0.0176	0.0001
Mg-T	mg/L	3.81	3.69	4.03	3.64	3.61	5	4.03	3.76			3.94
Mn-T	mg/L	0.0362	0.159	0.168	0.149	0.230	5	0.230	0.1484	0.737	0.8706	0.2052
P-T	mg/L	0.0031	0.0088	0.0032	0.0031	0.0037	5	0.0088	0.0044	0.015		0.0068
Mo-T	mg/L	0.000125	<0.0010	<0.0010	<0.0010	0.000125	5	<0.0010	0.000350	7.6	46.0	0.0005
Ni-T	mg/L	0.000217	<0.0010	<0.0010	<0.0010	0.00020	5	<0.0010	0.000383	0.025		0.0005
K-T	mg/L	0.375	0.389	0.39	0.374	0.37	5	0.39	0.380			0.39
S-T	mg/L	27.1	26.8	26.7	26.9	27.1	5	27.1	26.9			27.1
Se-T	mg/L	0.000060	<0.00010	<0.00010	<0.00010	<0.000040	5	0.000060	0.0000460	0.002		5.60E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	10.5	10.7	11.1	10.6	10.7	5	11.1	10.7			10.9
Sr-T	mg/L	0.236	0.233	0.238	0.241	0.223	5	0.241	0.234			0.24
Zn-T	mg/L	0.00035	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00167	0.0075	0.033	0.0025
Al-D	mg/L	0.0160	0.0125	0.0132	0.0132	0.0111	5	0.0160	0.0132			0.0149
As-D	mg/L	0.000235	0.000230	0.00029	0.00024	0.000257	5	0.00029	0.000250			0.000277
Ba-D	mg/L	0.00592	0.00833	0.0086	0.0080	0.00917	5	0.00917	0.00800			0.00894
B-D	mg/L	0.074	0.064	0.086	0.081	0.078	5	0.086	0.077			0.084
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	31.8	33.6	33.2	34.6	32.4	5	34.6	33.1			34.2
Cl-D	mg/L	<1.0	<1.0				2	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.00010	0.00013	<0.0010	<0.0010	0.00016	5	<0.0010	0.000268			0.0005
Co-D	mg/L	0.0000162	0.0000220	<0.00020	<0.00020	0.0000400	5	<0.00020	0.0000556			0.0001
Cu-D	mg/L	0.000366	0.000383	0.00037	0.00037	0.000365	5	0.000383	0.000371	*	*	0.000378
DOC	mg/L	3.4	3.0	3.2	3.2	3.0	5	3.4	3.2			3.3
Hard-D	mg/L	95.0	99.6	99.7	103	96.0	5	103	98.7			101.7
Fe-D	mg/L	0.0201	0.0273	0.0274	0.0286	0.0300	5	0.0300	0.0267			0.0294
Pb-D	mg/L	<0.0000050	<0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004150			0.0001
Mg-D	mg/L	3.81	3.80	4.07	4.06	3.69	5	4.07	3.89			4.07
Mn-D	mg/L	0.0144	0.119	0.137	0.142	0.211	5	0.211	0.1247			0.1834
Mo-D	mg/L	0.000153	0.000130	<0.0010	<0.0010	0.000221	5	<0.0010	0.000301			0.0005
Ni-D	mg/L	0.000181	0.000149	<0.0010	<0.0010	0.000178	5	<0.0010	0.000302			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.368	0.387	0.394	0.415	0.387	5	0.415	0.390			0.407
S-D	mg/L	26.6	27.6	28.5	29.3	28.7	5	29.3	28.1			29.1
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	10.5	10.7	11.8	11.4	10.7	5	11.8	11.0			11.6
Sr-D	mg/L	0.217	0.235	0.235	0.232	0.224	5	0.235	0.229			0.235
Zn-D	mg/L	0.00069	0.00067	<0.0050	<0.0050	0.00106	5	<0.0050	0.00148	0.0075	0.033	0.0025
N-NO23	mg/L	0.051	0.136	0.076	0.071	0.081	5	0.136	0.083			0.114

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 1M											
StnCode	MQL1											
		9-Jul-25	16-Jul-25	22-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Water Quality Guidelines Chronic	Acute	90th Percentile
SO4-D	mg/L	43	48	51	54	55	5	55	50.2	128		54.6
Turb-F	NTU	-0.2	1.6	-0.4	2.5	-1.91	5	2.5	0.32			2.14
Alk-T	mg/L	38	41	40	42	45	5	45	41.2			43.8
Al-T	mg/L	0.0118	0.0140	0.0123	0.0119	0.0122	5	0.0140	0.0124	*		0.0133
As-T	mg/L	0.000167	0.00018	0.00017	0.00018	0.000174	5	0.00018	0.000174	0.005		0.00018
B-T	mg/L	0.051	0.063	0.058	0.064	0.071	5	0.071	0.061	1.2		0.068
Ba-T	mg/L	0.00224	0.0023	0.0024	0.0023	0.00220	5	0.0024	0.00229	1.00		0.00236
Cd-T	mg/L	<0.0000050	0.000011	<0.000010	<0.000010	<0.0000050	5	0.000011	0.00000520			8.60E-06
Ca-T	mg/L	15.4	15.7	16.1	15.3	15.7	5	16.1	15.6			15.9
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00020	5	<0.0010	0.000350			0.0005
Co-T	mg/L	0.0000148	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000640	0.004	0.11	0.0001
Cu-T	mg/L	0.000521	0.00057	0.00559	<0.00050	0.00047	5	0.00559	0.001480			0.003582
Fe-T	mg/L	0.0318	0.036	0.036	0.029	0.0302	5	0.036	0.0326	*	1.0	0.036
Hard-T	mg/L	46.0	47.1	48.8	46.7	47.8	5	48.8	47.3			48.4
Pb-T	mg/L	<0.0000050	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.00006250	0.004	0.0176	0.0001
Mg-T	mg/L	1.83	1.92	2.12	2.04	2.12	5	2.12	2.00			2.1
Mn-T	mg/L	0.00832	0.0078	0.0074	0.0059	0.00634	5	0.00832	0.00715	0.737	0.8706	0.00811
P-T	mg/L	<0.0030	0.0039	<0.0030	0.0044	0.0034	5	0.0044	0.00294	0.015		0.0042
Mo-T	mg/L	0.000183	<0.0010	<0.0010	<0.0010	0.000166	5	<0.0010	0.000370	7.6	46.0	0.0005
Ni-T	mg/L	0.000088	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000328	0.025		0.0005
K-T	mg/L	0.262	0.285	0.302	0.315	0.33	5	0.33	0.299			0.324
S-T	mg/L	13.5	15.4	15.5	17.3	18.4	5	18.4	16.0			18
Se-T	mg/L	0.000056	<0.00010	<0.00010	<0.00010	0.000055	5	0.000056	0.000052	0.002		5.60E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	15.5	16.2	17.5	19.4	21.4	5	21.4	18.0			20.6
Sr-T	mg/L	0.0944	0.102	0.104	0.107	0.104	5	0.107	0.1023			0.1058
Zn-T	mg/L	0.00034	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00167	0.0075	0.033	0.0025
Al-D	mg/L	0.0110	0.0131	0.0123	0.0126	0.0107	5	0.0131	0.0119			0.0129
As-D	mg/L	0.000162	0.000156	0.00016	0.00014	0.000184	5	0.000184	0.000160			0.000175
Ba-D	mg/L	0.00217	0.00233	0.0023	0.0023	0.00230	5	0.00233	0.00228			0.00232
B-D	mg/L	0.049	0.047	0.059	0.071	0.070	5	0.071	0.059			0.071
Cd-D	mg/L	0.0000061	0.0000060	<0.000010	<0.000010	0.0000050	5	0.0000061	0.0000054	0.000087	0.00017	6.10E-06
Ca-D	mg/L	14.9	15.9	16.8	17.5	15.9	5	17.5	16.2			17.2
Cl-D	mg/L	<1.0	<1.0		<1.0		3	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.00010	0.00017	<0.0010	<0.0010	0.00011	5	<0.0010	0.000266			0.0005
Co-D	mg/L	0.0000208	0.0000230	<0.00020	<0.00020	0.0000118	5	<0.00020	0.0000511			0.0001
Cu-D	mg/L	0.000508	0.000533	0.00049	0.00046	0.000481	5	0.000533	0.000494	*	*	0.000523
DOC	mg/L	2.4	2.2	2.3	2.0	2.1	5	2.4	2.2			2.4
Hard-D	mg/L	44.7	48.4	51.1	53.9	48.7	5	53.9	49.4			52.8
Fe-D	mg/L	0.0233	0.0276	0.0241	0.0214	0.0225	5	0.0276	0.0238			0.0262
Pb-D	mg/L	0.0000119	0.0000140	<0.00020	<0.00020	0.0000075	5	<0.00020	0.0000467			0.0001
Mg-D	mg/L	1.83	2.11	2.19	2.45	2.15	5	2.45	2.15			2.35
Mn-D	mg/L	0.00472	0.00427	0.0025	0.0011	0.00137	5	0.00472	0.00279			0.00454
Mo-D	mg/L	0.000251	0.000256	<0.0010	<0.0010	0.000245	5	<0.0010	0.000350			0.0005
Ni-D	mg/L	0.000091	0.000087	<0.0010	<0.0010	0.000053	5	<0.0010	0.000246			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.247	0.303	0.316	0.360	0.350	5	0.360	0.315			0.356
S-D	mg/L	13.7	15.9	17.3	19.3	19.2	5	19.3	17.1			19.3
Se-D	mg/L	0.000050	0.000058	<0.00010	<0.00010	0.000061	5	0.000061	0.000054			6.00E-05
Na-D	mg/L	15.1	17.5	18.2	22.1	22.1	5	22.1	19.0			22.1
Sr-D	mg/L	0.0857	0.100	0.111	0.115	0.103	5	0.115	0.1029			0.1134
Zn-D	mg/L	0.00171	0.00127	<0.0050	<0.0050	0.00120	5	<0.0050	0.00184	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	0.067	<0.020	<0.020	5	0.067	0.0214			0.0442
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206618										
StnName		Middle Quinsam Lake 4M										
StnCode		MQL4										
		9-Jul-25	16-Jul-25	22-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	42	48	52	53	55	5	55	50.0	128		54.2
Turb-F	NTU	-0.1	1.6	-0.3	2.4	-1.89	5	2.4	0.34			2.08
Alk-T	mg/L	37	40	40	42	45	5	45	40.8			43.8
Al-T	mg/L	0.0124	0.0133	0.0121	0.0121	0.0118	5	0.0133	0.0123	*		0.0129
As-T	mg/L	0.000162	0.00016	0.00016	0.00017	0.000182	5	0.000182	0.000167	0.005		0.000177
B-T	mg/L	0.051	0.059	0.058	0.067	0.071	5	0.071	0.061	1.2		0.069
Ba-T	mg/L	0.00224	0.0023	0.0024	0.0022	0.00221	5	0.0024	0.00227	1.00		0.00236
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	15.4	15.5	15.7	15.5	15.3	5	15.7	15.5			15.6
Cr-T	mg/L	0.00011	<0.0010	<0.0010	<0.0010	0.00012	5	<0.0010	0.00035			0.0005
Co-T	mg/L	0.0000132	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000636	0.004	0.11	0.0001
Cu-T	mg/L	0.000511	0.00053	0.00053	0.00061	0.00043	5	0.00061	0.000522			0.000578
Fe-T	mg/L	0.0337	0.036	0.034	0.030	0.0305	5	0.036	0.0328	*	1.0	0.0352
Hard-T	mg/L	46.2	46.7	48.1	47.1	46.8	5	48.1	47.0			47.7
Pb-T	mg/L	0.0000849	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.0000790	0.004	0.0176	0.0001
Mg-T	mg/L	1.84	1.91	2.17	2.06	2.08	5	2.17	2.01			2.13
Mn-T	mg/L	0.00752	0.0082	0.0076	0.0061	0.00666	5	0.0082	0.00722	0.737	0.8706	0.00796
P-T	mg/L	<0.0030	0.0034	0.0031	<0.0030	0.0036	5	0.0036	0.00262	0.015		0.00352
Mo-T	mg/L	0.000173	<0.0010	<0.0010	<0.0010	0.000164	5	<0.0010	0.000367	7.6	46.0	0.0005
Ni-T	mg/L	0.000084	<0.0010	<0.0010	<0.0010	0.00013	5	<0.0010	0.000343	0.025		0.0005
K-T	mg/L	0.258	0.281	0.308	0.315	0.34	5	0.34	0.300			0.33
S-T	mg/L	13.9	15.4	16.7	17.0	17.6	5	17.6	16.1			17.4
Se-T	mg/L	0.000049	<0.00010	<0.00010	<0.00010	0.000044	5	<0.00010	0.000049	0.002		5.00E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	15.2	16.5	17.8	19.2	21.8	5	21.8	18.1			20.8
Sr-T	mg/L	0.0944	0.0996	0.104	0.108	0.103	5	0.108	0.1018			0.1064
Zn-T	mg/L	0.00051	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00170	0.0075	0.033	0.0025
Al-D	mg/L	0.0108	0.0111	0.0119	0.0127	0.0106	5	0.0127	0.0114			0.0124
As-D	mg/L	0.000155	0.000160	0.00017	0.00015	0.000193	5	0.000193	0.000166			0.000184
Ba-D	mg/L	0.00209	0.00231	0.0022	0.0023	0.00233	5	0.00233	0.00225			0.00232
B-D	mg/L	0.050	0.049	0.060	0.071	0.071	5	0.071	0.060			0.071
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	14.9	15.9	16.9	17.4	16.0	5	17.4	16.2			17.2
Cl-D	mg/L	<1.0	<1.0		<1.0		3	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.00010	0.00019	<0.0010	<0.0010	0.00016	5	<0.0010	0.000280			0.0005
Co-D	mg/L	0.0000138	0.0000120	<0.00020	<0.00020	0.0000127	5	<0.00020	0.0000477			0.0001
Cu-D	mg/L	0.000480	0.000506	0.00048	0.00047	0.000489	5	0.000506	0.000485	*	*	0.000499
DOC	mg/L	2.1	2.5	2.0	2.1	2.1	5	2.5	2.2			2.3
Hard-D	mg/L	44.8	48.2	51.5	53.2	48.7	5	53.2	49.3			52.5
Fe-D	mg/L	0.0251	0.0272	0.0230	0.0220	0.0210	5	0.0272	0.0237			0.0264
Pb-D	mg/L	<0.0000050	<0.0000050	<0.00020	<0.00020	0.0000050	5	<0.00020	0.00004200			0.0001
Mg-D	mg/L	1.83	2.07	2.24	2.38	2.14	5	2.38	2.13			2.32
Mn-D	mg/L	0.00307	0.00398	0.0016	0.0012	0.00122	5	0.00398	0.00221			0.00362
Mo-D	mg/L	0.000188	0.000199	<0.0010	<0.0010	0.000212	5	<0.0010	0.000320			0.0005
Ni-D	mg/L	0.000088	0.000086	<0.0010	<0.0010	0.000059	5	<0.0010	0.000247			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.245	0.298	0.323	0.357	0.353	5	0.357	0.315			0.355
S-D	mg/L	13.0	16.6	16.7	19.5	19.5	5	19.5	17.0			19.3
Se-D	mg/L	0.000058	0.000048	<0.00010	<0.00010	<0.000040	5	0.000058	0.0000452			5.48E-05
Na-D	mg/L	15.1	17.4	18.0	21.8	21.9	5	21.9	18.8			21.9
Sr-D	mg/L	0.0840	0.0996	0.110	0.109	0.105	5	0.110	0.1015			0.1096
Zn-D	mg/L	0.00048	0.00086	<0.0050	<0.0050	0.00066	5	<0.0050	0.00140	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206618															
StnName		Middle Quinsam Lake 9M															
StnCode		MQL9															
		9-Jul-25		16-Jul-25		22-Jul-25		29-Jul-25		6-Aug-25		Count	Max	5 in 30 Ave	Water Quality Guidelines		90th
															Chronic	Acute	Percentile
SO4-D	mg/L		22		21		21		22		26	5	26	22.4		128	24.4
Turb-F	NTU		0.5		2.0		0.2		3.2		-1.51	5	3.2	0.88			2.72
Alk-T	mg/L		32		30		31		31		33	5	33	31.4			32.6
Al-T	mg/L		0.00882		0.0080		0.0083		0.0077		0.0082	5	0.00882	0.00820		*	0.00861
As-T	mg/L		0.000141		0.00012		0.00015		0.00016		0.000162	5	0.000162	0.000147		0.005	0.000161
B-T	mg/L		0.034		<0.050		<0.050		<0.050		0.046	5	0.046	0.0310		1.2	0.0412
Ba-T	mg/L		0.00163		0.0017		0.0016		0.0017		0.00158	5	0.0017	0.00164		1.00	0.0017
Cd-T	mg/L		<0.0000050		<0.000010		<0.000010		<0.000010		<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L		11.0		11.1		10.9		11.5		11.6	5	11.6	11.2			11.6
Cr-T	mg/L		<0.00010		<0.0010		<0.0010		<0.0010		0.00014	5	<0.0010	0.000338			0.0005
Co-T	mg/L		0.0000174		<0.00020		<0.00020		<0.00020		<0.000010	5	<0.00020	0.0000645		0.004	0.0001
Cu-T	mg/L		0.000502		0.00058		0.00053		0.00058		0.00045	5	0.00058	0.000528			0.00058
Fe-T	mg/L		0.0187		0.020		0.020		0.022		0.0203	5	0.022	0.0202		*	0.0213
Hard-T	mg/L		32.7		33.3		32.7		34.8		35.2	5	35.2	33.7			35
Pb-T	mg/L		<0.0000050		<0.00020		<0.00020		<0.00020		<0.000020	5	<0.00020	0.00006250		0.004	0.0001
Mg-T	mg/L		1.26		1.33		1.34		1.44		1.50	5	1.50	1.37			1.48
Mn-T	mg/L		0.00485		0.0047		0.0061		0.0078		0.00658	5	0.0078	0.00601		0.737	0.00731
P-T	mg/L		0.0062		0.0043		0.0042		0.0031		0.0053	5	0.0062	0.0046		0.015	0.0058
Mo-T	mg/L		0.000179		<0.0010		<0.0010		<0.0010		0.000173	5	<0.0010	0.000370		7.6	0.0005
Ni-T	mg/L		0.000081		<0.0010		<0.0010		<0.0010		<0.00010	5	<0.0010	0.000326		0.025	0.0005
K-T	mg/L		0.109		0.081		0.101		0.095		<0.25	5	<0.25	0.102			0.119
S-T	mg/L		6.8		6.7		6.1		7.3		8.9	5	8.9	7.2			8.3
Se-T	mg/L		0.000057		<0.00010		<0.00010		<0.00010		0.000059	5	0.000059	0.000053		0.002	5.80E-05
Ag-T	mg/L		<0.0000050		<0.000020		<0.000020		<0.000020		<0.000010	5	<0.000020	0.00000750		0.00005	1.00E-05
Na-T	mg/L		8.38		8.47		8.54		9.41		11.3	5	11.3	9.22			10.54
Sr-T	mg/L		0.0500		0.0508		0.0491		0.0545		0.0589	5	0.0589	0.0527			0.0571
Zn-T	mg/L		0.00090		<0.0050		<0.0050		<0.0050		<0.0010	5	<0.0050	0.00178		0.0075	0.0025
Al-D	mg/L		0.00812		0.00745		0.0073		0.0068		0.00725	5	0.00812	0.00738			0.00785
As-D	mg/L		0.000139		0.000123		0.00016		<0.00010		0.000167	5	0.000167	0.000128			0.000164
Ba-D	mg/L		0.00166		0.00168		0.0015		0.0015		0.00156	5	0.00168	0.00158			0.00167
B-D	mg/L		0.036		0.031		<0.050		<0.050		0.041	5	0.041	0.0316			0.039
Cd-D	mg/L		0.0000081		<0.0000050		<0.000010		<0.000010		<0.0000050	5	0.0000081	0.00000462		0.000087	6.86E-06
Ca-D	mg/L		11.9		11.2		11.3		11.4		11.4	5	11.9	11.4			11.7
Cl-D	mg/L		<1.0		<1.0				1.3			3	1.3	0.77		150	1.14
Cr-D	mg/L		<0.00010		0.00017		<0.0010		<0.0010		0.00011	5	<0.0010	0.000266			0.0005
Co-D	mg/L		0.0000170		0.0000110		<0.00020		<0.00020		0.0000165	5	<0.00020	0.0000489			0.0001
Cu-D	mg/L		0.000466		0.000499		0.00051				0.000468	5	0.00051	0.000479		*	0.000506
DOC	mg/L		2.1		2.2		2.1		2.2		2.2	5	2.2	2.2			2.2
Hard-D	mg/L		35.4		33.6		33.7		34.4		34.4	5	35.4	34.3			35
Fe-D	mg/L		0.0113		0.0098		0.0087		0.0084		0.0104	5	0.0113	0.0097			0.0109
Pb-D	mg/L		0.0000126		0.0000060		<0.00020		<0.00020		<0.0000050	5	<0.00020	0.00004422			0.0001
Mg-D	mg/L		1.41		1.39		1.35		1.47		1.43	5	1.47	1.41			1.45
Mn-D	mg/L		0.00136		0.000730		<0.0010		<0.0010		0.00101	5	0.00136	0.000820			0.00122
Mo-D	mg/L		0.000210		0.000173		<0.0010		<0.0010		0.000175	5	<0.0010	0.000312			0.0005
Ni-D	mg/L		0.000062		0.000088		<0.0010		<0.0010		0.000024	5	<0.0010	0.000235			0.0005
Ag-D	mg/L		<0.0000050		0.0000440		<0.000020		<0.000020		<0.0000050	5	0.0000440	0.00001380			3.04E-05
K-D	mg/L		0.122		0.080		0.103		0.097		0.144	5	0.144	0.109			0.135
S-D	mg/L		7.5		6.7		6.3		7.1		8.5	5	8.5	7.2			8.1
Se-D	mg/L		0.000052		0.000054		<0.00010		<0.00010		0.000059	5	0.000059	0.000053			5.70E-05
Na-D	mg/L		9.55		8.81		8.64		8.97		10.6	5	10.6	9.31			10.18
Sr-D	mg/L		0.0523		0.0487		0.0512		0.0472		0.0555	5	0.0555	0.0510			0.0542
Zn-D	mg/L		0.00091		0.00061		<0.0050		<0.0050		0.00065	5	<0.0050	0.00143		0.0075	0.0025
N-NO23	mg/L		<0.020		<0.020		<0.020		<0.020		<0.020	5	<0.020	0.0100			0.01
Notes: *Calculated guideline. Refer to Exceedance Tables.																	
Bold indicates factor applied to less-than results when calculating statistics: 0.5																	

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E206618										
StnName		Middle Quinsam Lake 1MB										
StnCode		MLB										
		9-Jul-25	16-Jul-25	22-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	22	22	22	22	23	5	23	22.2	128		22.6
Turb-F	NTU	0.5	2.0	0.35	3.3	-1.68	5	3.3	0.89			2.78
Alk-T	mg/L	32	33	31	31	32	5	33	31.8			32.6
Al-T	mg/L	0.00671	0.0125	0.0058	0.0058	0.0052	5	0.0125	0.00720	*		0.01018
As-T	mg/L	0.000109	0.00016	0.00012	0.00013	0.000115	5	0.00016	0.000127	0.005		0.000148
B-T	mg/L	0.035	<0.050	<0.050	<0.050	0.036	5	0.036	0.0292	1.2		0.0356
Ba-T	mg/L	0.00214	0.0021	0.0021	0.0024	0.00205	5	0.0024	0.00216	1.00		0.0023
Cd-T	mg/L	<0.0000050	0.000037	<0.000010	<0.000010	<0.0000050	5	0.000037	0.00001040			2.42E-05
Ca-T	mg/L	11.7	11.9	11.4	12.1	10.5	5	12.1	11.5			12
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00012	5	<0.0010	0.000334			0.0005
Co-T	mg/L	0.0000139	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000638	0.004	0.11	0.0001
Cu-T	mg/L	0.000457	0.00064	0.00053	0.00054	0.00037	5	0.00064	0.000507			0.0006
Fe-T	mg/L	0.0303	0.035	0.028	0.033	0.0304	5	0.035	0.0313	*	1.0	0.0342
Hard-T	mg/L	34.9	35.8	34.8	36.5	32.0	5	36.5	34.8			36.2
Pb-T	mg/L	<0.0000050	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.00006250	0.004	0.0176	0.0001
Mg-T	mg/L	1.40	1.48	1.53	1.55	1.41	5	1.55	1.47			1.54
Mn-T	mg/L	0.0123	0.0131	0.0119	0.0144	0.0146	5	0.0146	0.0133	0.737	0.8706	0.0145
P-T	mg/L	<0.0030	0.0071	0.0039	0.0056	0.0058	5	0.0071	0.00478	0.015		0.00658
Mo-T	mg/L	0.000163	<0.0010	<0.0010	<0.0010	0.000133	5	<0.0010	0.000359	7.6	46.0	0.0005
Ni-T	mg/L	0.000066	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000323	0.025		0.0005
K-T	mg/L	0.128	0.162	0.130	0.141	<0.25	5	0.162	0.137			0.154
S-T	mg/L	7.2	7.5	7.3	7.0	6.9	5	7.5	7.2			7.4
Se-T	mg/L	0.000044	0.00012	<0.00010	<0.00010	<0.000040	5	0.00012	0.0000568	0.002		9.20E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	8.39	9.05	9.01	9.38	8.55	5	9.38	8.88			9.25
Sr-T	mg/L	0.0515	0.0536	0.0516	0.0559	0.0470	5	0.0559	0.0519			0.055
Zn-T	mg/L	0.00030	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00166	0.0075	0.033	0.0025
Al-D	mg/L	0.00554	0.00488	0.0061	0.0036	0.00287	5	0.0061	0.00460			0.00588
As-D	mg/L	0.000109	0.000085	0.00011	<0.00010	0.000133	5	0.000133	0.000097			0.000124
Ba-D	mg/L	0.00192	0.00208	0.0022	0.0020	0.00218	5	0.0022	0.00208			0.00219
B-D	mg/L	0.033	0.030	<0.050	<0.050	0.037	5	0.037	0.0300			0.0354
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	11.3	11.7	11.9	11.9	11.5	5	11.9	11.7			11.9
Cl-D	mg/L	<1.0	1.1		2.2		3	2.2	1.27	150	600	1.98
Cr-D	mg/L	<0.00010	0.00018	<0.0010	<0.0010	0.00013	5	<0.0010	0.000272			0.0005
Co-D	mg/L	0.0000122	0.0000130	<0.00020	<0.00020	0.0000179	5	<0.00020	0.0000486			0.0001
Cu-D	mg/L	0.000437	0.000448	0.00046	0.00042	0.000464	5	0.000464	0.000446	*	*	0.000462
DOC	mg/L	2.0	2.3	2.0	2.3	2.1	5	2.3	2.1			2.3
Hard-D	mg/L	34.0	35.3	36.1	36.4	34.8	5	36.4	35.3			36.3
Fe-D	mg/L	0.0157	0.0168	0.0152	0.0164	0.0156	5	0.0168	0.0159			0.0166
Pb-D	mg/L	0.0000071	<0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004242			0.0001
Mg-D	mg/L	1.42	1.50	1.53	1.63	1.47	5	1.63	1.51			1.59
Mn-D	mg/L	0.00846	0.00921	0.0088	0.0103	0.0103	5	0.0103	0.00941			0.0103
Mo-D	mg/L	0.000189	0.000196	<0.0010	<0.0010	0.000163	5	<0.0010	0.000310			0.0005
Ni-D	mg/L	0.000066	0.000076	<0.0010	<0.0010	0.000036	5	<0.0010	0.000236			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.125	0.143	0.140	0.151	0.128	5	0.151	0.137			0.148
S-D	mg/L	6.8	7.8	7.1	8.1	7.0	5	8.1	7.4			8
Se-D	mg/L	0.000045	0.000054	<0.00010	<0.00010	0.000053	5	0.000054	0.000050			5.40E-05
Na-D	mg/L	8.50	9.06	9.21	9.51	9.18	5	9.51	9.09			9.39
Sr-D	mg/L	0.0472	0.0513	0.0539	0.0508	0.0494	5	0.0539	0.0505			0.0529
Zn-D	mg/L	0.00081	0.00063	<0.0050	<0.0050	0.00062	5	<0.0050	0.00141	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

EMS ID	StnName	LLE Zone of Dilution 2								Water Quality Guidelines		90th
StnCode		LLEZ2								Chronic	Acute	Percentile
		9-Jul-25	16-Jul-25	22-Jul-25	29-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave			
SO4-D	mg/L	44	53	48	50	52	5	53	49.4	128		52.6
Turb-F	NTU	2.5	0.7	3.3	0.5	-1.3	5	3.3	1.1			3
Alk-T	mg/L	29	32	31	32	33	5	33	31.4			32.6
Al-T	mg/L	0.0121	0.0122	0.0111	0.0111	0.0085	5	0.0122	0.0110	*		0.0122
As-T	mg/L	0.000536	0.00058	0.00053	0.00061	0.000618	5	0.000618	0.000575	0.005		0.000615
B-T	mg/L	0.051	0.050	<0.050	0.057	0.061	5	0.061	0.0488	1.2		0.0594
Ba-T	mg/L	0.00456	0.0044	0.0044	0.0049	0.00500	5	0.00500	0.00465	1.00		0.00496
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	19.6	20.7	20.7	21.9	23.8	5	23.8	21.3			23
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00013	5	<0.0010	0.000336			0.0005
Co-T	mg/L	0.0000128	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000636	0.004	0.11	0.0001
Cu-T	mg/L	0.000369	0.00057	0.00065	<0.00050	0.00034	5	0.00065	0.000436			0.000618
Fe-T	mg/L	0.0397	0.037	0.032	0.035	0.0293	5	0.0397	0.0346	*	1.0	0.0386
Hard-T	mg/L	59.2	61.9	63.4	66.2	71.6	5	71.6	64.5			69.4
Pb-T	mg/L	0.0000288	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.0000678	0.004	0.0176	0.0001
Mg-T	mg/L	2.52	2.50	2.86	2.83	2.98	5	2.98	2.74			2.93
Mn-T	mg/L	0.00810	0.0057	0.0064	0.0069	0.00665	5	0.00810	0.00675	0.737	0.8706	0.00762
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.015		0.0015
Mo-T	mg/L	0.000196	<0.0010	<0.0010	<0.0010	0.000188	5	<0.0010	0.000377	7.6	46.0	0.0005
Ni-T	mg/L	0.000110	<0.0010	<0.0010	<0.0010	0.00013	5	<0.0010	0.000348	0.025		0.0005
K-T	mg/L	0.217	0.219	0.22	0.250	<0.25	5	0.250	0.206			0.238
S-T	mg/L	14.4	14.1	13.4	16.4	17.6	5	17.6	15.2			17.1
Se-T	mg/L	<0.000040	<0.00010	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000380	0.002		5.00E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	0.000043	<0.000010	5	0.000043	0.00001410	0.00005	0.0001	2.98E-05
Na-T	mg/L	6.23	6.18	6.49	6.99	7.35	5	7.35	6.65			7.21
Sr-T	mg/L	0.129	0.125	0.132	0.148	0.145	5	0.148	0.136			0.147
Zn-T	mg/L	0.00038	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00168	0.0075	0.033	0.0025
Al-D	mg/L	0.0121	0.0107	0.0112	0.0095	0.00785	5	0.0121	0.01027			0.01174
As-D	mg/L	0.000535	0.000513	0.00062	0.00052	0.000616	5	0.00062	0.000561			0.000618
Ba-D	mg/L	0.00425	0.00444	0.0047	0.0044	0.00485	5	0.00485	0.00453			0.00479
B-D	mg/L	0.049	0.042	0.059	0.060	0.058	5	0.060	0.054			0.06
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	19.5	19.0	21.5	21.7	22.0	5	22.0	20.7			21.9
Cl-D	mg/L	<1.0	<1.0				2	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00023	0.00015	<0.0010	<0.0010	0.00014	5	<0.0010	0.00030			0.0005
Co-D	mg/L	0.0000109	0.0000070	<0.00020	<0.00020	0.0000097	5	<0.00020	0.0000455			0.0001
Cu-D	mg/L	0.000330	0.000373	0.00042	0.00031	0.000345	5	0.00042	0.000356	*	*	0.000401
DOC	mg/L	3.6	3.3	3.1	3.3	3.4	5	3.6	3.3			3.5
Hard-D	mg/L	58.9	58.3	65.7	66.5	66.3	5	66.5	63.1			66.4
Fe-D	mg/L	0.0330	0.0290	0.0228	0.0208	0.0196	5	0.0330	0.0250			0.0314
Pb-D	mg/L	<0.0000050	0.0000290	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004680			0.0001
Mg-D	mg/L	2.49	2.64	2.91	3.00	2.78	5	3.00	2.76			2.96
Mn-D	mg/L	0.00355	0.00240	0.0019	0.0013	0.00200	5	0.00355	0.00223			0.00309
Mo-D	mg/L	0.000199	0.000232	<0.0010	<0.0010	0.000492	5	<0.0010	0.000385			0.0005
Ni-D	mg/L	0.000108	0.000102	<0.0010	<0.0010	0.000069	5	<0.0010	0.000256			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.209	0.227	0.238	0.256	0.236	5	0.256	0.233			0.249
S-D	mg/L	14.0	14.5	16.7	17.0	17.3	5	17.3	15.9			17.2
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.000040	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	5.95	6.24	7.18	7.06	6.90	5	7.18	6.67			7.13
Sr-D	mg/L	0.118	0.128	0.132	0.134	0.136	5	0.136	0.130			0.135
Zn-D	mg/L	0.00083	0.00129	<0.0050	<0.0050	0.00239	5	<0.0050	0.00190	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

EMS ID		E292118						Water Quality Guidelines				
StnName		Lower Quinsam Lake 1M										
StnCode		LQL1										
		9-Jul-25	16-Jul-25	22-Jul-25	30-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	23	29	31	32	35	5	35	30.0	128		33.8
Turb-F	NTU	0.2	0.2	1.5	0.3	-1.4	5	1.5	0.2			1
Alk-T	mg/L	38	41	41	41	42	5	42	40.6			41.6
Al-T	mg/L	0.00858	0.0102	0.0094	0.0093	0.0100	5	0.0102	0.00950	*		0.01012
As-T	mg/L	0.000883	0.00095	0.00090	0.00093	0.000974	5	0.000974	0.000927	0.005		0.000964
B-T	mg/L	0.047	0.050	0.057	0.057	0.063	5	0.063	0.055	1.2		0.061
Ba-T	mg/L	0.00406	0.0042	0.0043	0.0044	0.00454	5	0.00454	0.00430	1.00		0.00448
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	0.000013	<0.0000050	5	0.000013	0.00000560			9.80E-06
Ca-T	mg/L	12.7	13.3	13.8	14.4	14.9	5	14.9	13.8			14.7
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	0.00014	5	<0.0010	0.000338			0.0005
Co-T	mg/L	0.0000084	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000627	0.004	0.11	0.0001
Cu-T	mg/L	0.000470	0.00055	<0.00050	0.00051	0.00037	5	0.00055	0.000430			0.000534
Fe-T	mg/L	0.0399	0.057	0.049	0.048	0.0524	5	0.057	0.0493	*	1.0	0.0552
Hard-T	mg/L	37.6	40.0	41.7	43.4	45.3	5	45.3	41.6			44.5
Pb-T	mg/L	0.0000064	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.0000633	0.004	0.0176	0.0001
Mg-T	mg/L	1.46	1.63	1.73	1.78	1.96	5	1.96	1.71			1.89
Mn-T	mg/L	0.000549	0.0046	0.0038	0.0045	0.00608	5	0.00608	0.003906	0.737	0.8706	0.005488
P-T	mg/L	<0.0030	0.0047	<0.0030	0.0043	0.0030	5	0.0047	0.00300	0.015		0.00454
Mo-T	mg/L	0.000183	<0.0010	<0.0010	<0.0010	0.000182	5	<0.0010	0.000373	7.6	46.0	0.0005
Ni-T	mg/L	0.000120	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000334	0.025		0.0005
K-T	mg/L	0.228	0.264	0.257	0.275	0.30	5	0.30	0.265			0.29
S-T	mg/L	7.3	9.9	8.8	10.2	11.7	5	11.7	9.6			11.1
Se-T	mg/L	0.000070	<0.00010	<0.00010	<0.00010	0.000058	5	0.000070	0.000056	0.002		6.50E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	10.3	12.4	13.0	14.0	15.6	5	15.6	13.1			15
Sr-T	mg/L	0.0673	0.0715	0.0740	0.0816	0.0858	5	0.0858	0.0760			0.0841
Zn-T	mg/L	0.00156	<0.0050	<0.0050	<0.0050	0.0015	5	<0.0050	0.00211	0.0075	0.033	0.0025
Al-D	mg/L	0.0115	0.00780	0.0104	0.0076	0.00655	5	0.0115	0.00877			0.01106
As-D	mg/L	0.000855	0.000848	0.00091	0.00089	0.000905	5	0.00091	0.000882			0.000908
Ba-D	mg/L	0.00391	0.00435	0.0042	0.0042	0.00432	5	0.00435	0.00420			0.00434
B-D	mg/L	0.044	0.044	0.057	0.059	0.060	5	0.060	0.053			0.06
Cd-D	mg/L	0.0000053	<0.0000050	<0.000010	<0.000010	<0.0000050	5	0.0000053	0.00000406	0.000087	0.00017	5.18E-06
Ca-D	mg/L	12.3	13.4	13.5	14.4	13.9	5	14.4	13.5			14.2
Cl-D	mg/L	<1.0	<1.0	<1.0	1.2		4	1.2	0.68	150	600	0.99
Cr-D	mg/L	<0.00010	0.00018	<0.0010	<0.0010	0.00015	5	<0.0010	0.000276			0.0005
Co-D	mg/L	0.0000134	0.0000150	<0.00020	<0.00020	0.0000085	5	<0.00020	0.0000474			0.0001
Cu-D	mg/L	0.000467	0.000491	0.00042	0.00042	0.000448	5	0.000491	0.000449	*	*	0.000481
DOC	mg/L	2.3	2.2	2.2	2.3	2.4	5	2.4	2.3			2.4
Hard-D	mg/L	37.0	40.3	40.8	43.3	42.1	5	43.3	40.7			42.8
Fe-D	mg/L	0.0599	0.0389	0.0379	0.0346	0.0312	5	0.0599	0.0405			0.0515
Pb-D	mg/L	0.0000159	0.0000050	<0.00020	<0.00020	0.0000052	5	<0.00020	0.0000452			0.0001
Mg-D	mg/L	1.49	1.66	1.71	1.81	1.79	5	1.81	1.69			1.8
Mn-D	mg/L	0.00382	0.00123	0.0013	<0.0010	0.000760	5	0.00382	0.001522			0.002812
Mo-D	mg/L	0.000183	0.000183	<0.0010	<0.0010	0.000240	5	<0.0010	0.000321			0.0005
Ni-D	mg/L	0.000100	0.000063	<0.0010	<0.0010	<0.000020	5	<0.0010	0.0002346			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.221	0.259	0.267	0.281	0.279	5	0.281	0.261			0.28
S-D	mg/L	6.9	9.7	9.6	10.8	11.7	5	11.7	9.7			11.3
Se-D	mg/L	0.000071	0.000074	<0.00010	<0.00010	0.000052	5	0.000074	0.000059			7.30E-05
Na-D	mg/L	10.2	12.5	12.8	14.2	14.4	5	14.4	12.8			14.3
Sr-D	mg/L	0.0603	0.0740	0.0754	0.0805	0.0772	5	0.0805	0.0735			0.0792
Zn-D	mg/L	0.00086	0.00140	<0.0050	<0.0050	0.00151	5	<0.0050	0.00175	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L				0.60		1	0.60	0.60			0.6

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

EMS ID		E292118								Water Quality Guidelines		
StnName		Lower Quinsam Lake 4M										
StnCode		LQL4										
		9-Jul-25	16-Jul-25	22-Jul-25	30-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	28	29	31	35	35	5	35	31.6	128		35
Turb-F	NTU	<1	0.1	1.5	0.2	-1.3	5	1.5	0.2			1.1
Alk-T	mg/L	40	41	40	41	42	5	42	40.8			41.6
Al-T	mg/L	0.0117	0.0111	0.0089	0.0082	0.0084	5	0.0117	0.0097	*		0.0115
As-T	mg/L	0.000929	0.00095	0.00094	0.00095	0.000942	5	0.00095	0.000942	0.005		0.00095
B-T	mg/L	0.053	0.053	0.060	0.056	0.063	5	0.063	0.057	1.2		0.062
Ba-T	mg/L	0.00458	0.0044	0.0044	0.0046	0.00434	5	0.0046	0.00446	1.00		0.00459
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	0.0000061	5	0.0000061	0.00000472			5.66E-06
Ca-T	mg/L	13.2	13.3	14.3	14.6	14.4	5	14.6	14.0			14.5
Cr-T	mg/L	<0.00010	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000320			0.0005
Co-T	mg/L	0.0000137	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000637	0.004	0.11	0.0001
Cu-T	mg/L	0.000493	0.00089	<0.00050	0.00052	0.00032	5	0.00089	0.000495			0.000742
Fe-T	mg/L	0.0705	0.060	0.050	0.049	0.0483	5	0.0705	0.0556	*	1.0	0.0663
Hard-T	mg/L	39.5	40.1	43.0	43.8	43.5	5	43.8	42.0			43.7
Pb-T	mg/L	0.0000087	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0000637	0.004	0.0176	0.0001
Mg-T	mg/L	1.59	1.68	1.78	1.81	1.84	5	1.84	1.74			1.83
Mn-T	mg/L	0.00462	0.0049	0.0041	0.0056	0.00577	5	0.00577	0.00500	0.737	0.8706	0.0057
P-T	mg/L	<0.0030	0.0047	0.0060	0.0041	<0.0030	5	0.0060	0.00356	0.015		0.00548
Mo-T	mg/L	0.000181	<0.0010	<0.0010	<0.0010	0.000198	5	<0.0010	0.000376	7.6	46.0	0.0005
Ni-T	mg/L	0.000086	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000327	0.025		0.0005
K-T	mg/L	0.253	0.267	0.259	0.284	0.28	5	0.284	0.269			0.282
S-T	mg/L	9.3	11.3	9.3	11.5	11.8	5	11.8	10.6			11.7
Se-T	mg/L	0.000063	<0.00010	<0.00010	<0.00010	0.000064	5	0.000064	0.000055	0.002		6.40E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	12.1	12.8	13.5	14.7	14.8	5	14.8	13.6			14.8
Sr-T	mg/L	0.0732	0.0744	0.0763	0.0842	0.0820	5	0.0842	0.0780			0.0833
Zn-T	mg/L	0.00061	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00172	0.0075	0.033	0.0025
Al-D	mg/L	0.00822	0.0114	0.0079	0.0076	0.00679	5	0.0114	0.00838			0.01013
As-D	mg/L	0.000874	0.000774	0.00083	0.00091	0.000926	5	0.000926	0.000863			0.00092
Ba-D	mg/L	0.00419	0.00456	0.0042	0.0045	0.00424	5	0.00456	0.00434			0.00454
B-D	mg/L	0.049	0.044	0.059	0.058	0.061	5	0.061	0.054			0.06
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	13.0	13.6	13.5	14.6	13.8	5	14.6	13.7			14.3
Cl-D	mg/L	<1.0	<1.0	<1.0	1.1		4	1.1	0.65	150	600	0.92
Cr-D	mg/L	<0.00010	0.00019	<0.0010	<0.0010	0.00012	5	<0.0010	0.000272			0.0005
Co-D	mg/L	0.0000086	0.0000080	<0.00020	<0.00020	0.0000082	5	<0.00020	0.0000450			0.0001
Cu-D	mg/L	0.000461	0.000454	0.00035	0.00049	0.000396	5	0.00049	0.000430	*	*	0.000478
DOC	mg/L	2.2	2.1	2.2	2.2	2.3	5	2.3	2.2			2.3
Hard-D	mg/L	39.0	40.8	41.2	44.0	41.6	5	44.0	41.3			43
Fe-D	mg/L	0.0463	0.0421	0.0327	0.0337	0.0300	5	0.0463	0.0370			0.0446
Pb-D	mg/L	0.0000064	<0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004228			0.0001
Mg-D	mg/L	1.60	1.68	1.82	1.85	1.76	5	1.85	1.74			1.84
Mn-D	mg/L	0.000682	0.000886	<0.0010	<0.0010	0.000677	5	0.000886	0.000649			0.000804
Mo-D	mg/L	0.000184	0.000171	<0.0010	<0.0010	0.000201	5	<0.0010	0.000311			0.0005
Ni-D	mg/L	0.000093	0.000088	<0.0010	<0.0010	0.000055	5	<0.0010	0.000247			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.242	0.260	0.267	0.280	0.271	5	0.280	0.264			0.276
S-D	mg/L	8.7	8.8	9.7	12.1	11.6	5	12.1	10.2			11.9
Se-D	mg/L	0.000070	0.000068	<0.00010	<0.00010	0.000057	5	0.000070	0.000059			6.90E-05
Na-D	mg/L	11.8	12.8	13.7	14.7	14.2	5	14.7	13.4			14.5
Sr-D	mg/L	0.0674	0.0741	0.0741	0.0864	0.0777	5	0.0864	0.0759			0.0829
Zn-D	mg/L	0.00117	0.00059	<0.0050	<0.0050	0.00075	5	<0.0050	0.00150	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	0.024	<0.020	<0.020	<0.020	5	0.024	0.0128			0.0184

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 44 Lakes Summer 9 Page(s)

EMS ID		E292118								Water Quality Guidelines		
StnName		Lower Quinsam Lake 9M										
StnCode		LQL9										
		9-Jul-25	16-Jul-25	22-Jul-25	30-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	14	14	14	32	18	5	32	18.4	128		26.4
Turb-F	NTU	1.1	0.4	1.8	0.5	-0.82	5	1.8	0.60			1.52
Alk-T	mg/L	31	33	32	39	34	5	39	33.8			37
Al-T	mg/L	0.0156	0.0173	0.0127	0.0095	0.0111	5	0.0173	0.0132	*		0.0166
As-T	mg/L	0.000625	0.00067	0.00066	0.00092	0.000737	5	0.00092	0.000722	0.005		0.000847
B-T	mg/L	0.033	<0.050	<0.050	0.053	0.041	5	0.053	0.0354	1.2		0.0482
Ba-T	mg/L	0.00358	0.0034	0.0034	0.0045	0.00359	5	0.0045	0.00369	1.00		0.00414
Cd-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000400			5.00E-06
Ca-T	mg/L	10.3	10.0	10.5	14.1	11.2	5	14.1	11.2			12.9
Cr-T	mg/L	0.00013	<0.0010	<0.0010	<0.0010	0.00018	5	<0.0010	0.00036			0.0005
Co-T	mg/L	0.0000176	<0.00020	<0.00020	<0.00020	<0.000010	5	<0.00020	0.0000645	0.004	0.11	0.0001
Cu-T	mg/L	0.000530	0.00059	0.00059	0.00052	0.00034	5	0.00059	0.000514			0.00059
Fe-T	mg/L	0.0702	0.075	0.077	0.056	0.0548	5	0.077	0.0666	*	1.0	0.0762
Hard-T	mg/L	30.7	29.8	30.8	42.5	33.6	5	42.5	33.5			38.9
Pb-T	mg/L	<0.0000050	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.00006250	0.004	0.0176	0.0001
Mg-T	mg/L	1.18	1.17	1.14	1.75	1.40	5	1.75	1.33			1.61
Mn-T	mg/L	0.00659	0.0072	0.0079	0.0060	0.00693	5	0.0079	0.00692	0.737	0.8706	0.00762
P-T	mg/L	0.0030	0.0042	0.0045	0.0054	0.0044	5	0.0054	0.0043	0.015		0.005
Mo-T	mg/L	0.000125	<0.0010	<0.0010	<0.0010	0.000141	5	<0.0010	0.000353	7.6	46.0	0.0005
Ni-T	mg/L	0.000106	<0.0010	<0.0010	<0.0010	<0.00010	5	<0.0010	0.000331	0.025		0.0005
K-T	mg/L	0.179	0.183	0.192	0.274	<0.25	5	0.274	0.191			0.241
S-T	mg/L	4.7	4.4	4.9	9.8	6.6	5	9.8	6.1			8.5
Se-T	mg/L	0.000074	<0.00010	<0.00010	<0.00010	0.000066	5	0.000074	0.000058	0.002		7.10E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.56	6.60	6.38	13.3	9.16	5	13.3	8.40			11.64
Sr-T	mg/L	0.0485	0.0484	0.0481	0.0797	0.0557	5	0.0797	0.0561			0.0701
Zn-T	mg/L	0.00086	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00177	0.0075	0.033	0.0025
Al-D	mg/L	0.0123	0.0118	0.0112	0.0084	0.00779	5	0.0123	0.01030			0.0121
As-D	mg/L	0.000575	0.000582	0.00065	0.00086	0.000699	5	0.00086	0.000673			0.000796
Ba-D	mg/L	0.00324	0.00349	0.0035	0.0044	0.00359	5	0.0044	0.00364			0.00408
B-D	mg/L	0.031	0.029	<0.050	0.054	0.040	5	0.054	0.0358			0.0484
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	10.1	10.2	10.3	13.6	10.8	5	13.6	11.0			12.5
Cl-D	mg/L	<1.0	<1.0	<1.0	1.2		4	1.2	0.68	150	600	0.99
Cr-D	mg/L	0.00011	0.00024	<0.0010	<0.0010	0.00015	5	<0.0010	0.00030			0.0005
Co-D	mg/L	0.0000151	0.0000170	<0.00020	<0.00020	0.0000107	5	<0.00020	0.0000486			0.0001
Cu-D	mg/L	0.000509	0.000520	0.00040	0.00044	0.000454	5	0.000520	0.000465	*	*	0.000516
DOC	mg/L	2.9	3.0	2.9	2.3	2.6	5	3.0	2.7			3
Hard-D	mg/L	30.2	30.7	31.1	41.2	32.5	5	41.2	33.1			37.7
Fe-D	mg/L	0.0453	0.0458	0.0445	0.0353	0.0338	5	0.0458	0.0409			0.0456
Pb-D	mg/L	0.0000089	<0.0000050	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004278			0.0001
Mg-D	mg/L	1.21	1.25	1.32	1.73	1.35	5	1.73	1.37			1.58
Mn-D	mg/L	0.000798	0.00182	0.0016	<0.0010	0.00102	5	0.00182	0.001148			0.001732
Mo-D	mg/L	0.000152	0.000141	<0.0010	<0.0010	0.000163	5	<0.0010	0.000291			0.0005
Ni-D	mg/L	0.000102	0.000134	<0.0010	<0.0010	0.000068	5	<0.0010	0.000261			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.177	0.197	0.185	0.260	0.201	5	0.260	0.204			0.236
S-D	mg/L	4.6	5.6	4.6	10.2	6.8	5	10.2	6.4			8.8
Se-D	mg/L	0.000068	0.000069	<0.00010	<0.00010	0.000080	5	0.000080	0.000063			7.60E-05
Na-D	mg/L	6.56	7.00	7.44	13.2	8.62	5	13.2	8.56			11.37
Sr-D	mg/L	0.0441	0.0489	0.0474	0.0801	0.0523	5	0.0801	0.0546			0.069
Zn-D	mg/L	0.00105	0.00080	<0.0050	<0.0050	0.00043	5	<0.0050	0.00146	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Table 44 Lakes Summer 9 Page(s)

EMS ID		E292118							Water Quality Guidelines			
StnName		Lower Quinsam Lake 1MB										
StnCode		LQLB										
		9-Jul-25	16-Jul-25	22-Jul-25	30-Jul-25	6-Aug-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	13	13	13	14	14	5	14	13.4	128		14
Turb-F	NTU	1.8	2.2	4.78	4.28	3.78	5	4.78	3.37			4.58
Alk-T	mg/L	32	32	33	33	32	5	33	32.4			33
Al-T	mg/L	0.0173	0.0227	0.0181	0.0194	0.0124	5	0.0227	0.0180	*		0.0214
As-T	mg/L	0.000798	0.00111	0.00120	0.00143	0.000647	5	0.00143	0.001037	0.005		0.001338
B-T	mg/L	0.032	<0.050	<0.050	<0.050	0.032	5	0.032	0.0278	1.2		0.032
Ba-T	mg/L	0.00395	0.0052	0.0054	0.0061	0.00341	5	0.0061	0.00481	1.00		0.00582
Cd-T	mg/L	<0.0000050	<0.000010	0.000011	0.000014	<0.0000050	5	0.000014	0.00000700			1.28E-05
Ca-T	mg/L	10.4	10.8	10.6	10.4	10.2	5	10.8	10.5			10.7
Cr-T	mg/L	0.00012	<0.0010	<0.0010	<0.0010	0.00022	5	<0.0010	0.00037			0.0005
Co-T	mg/L	0.0000436	<0.00020	<0.00020	0.00022	0.000014	5	0.00022	0.0000955	0.004	0.11	0.000172
Cu-T	mg/L	0.000544	0.00069	0.00069	0.00067	0.00039	5	0.00069	0.000597			0.00069
Fe-T	mg/L	0.172	0.429	0.480	0.620	0.0813	5	0.620	0.3565	*	1.0	0.564
Hard-T	mg/L	30.7	32.3	31.1	31.1	30.4	5	32.3	31.1			31.8
Pb-T	mg/L	0.0000072	<0.00020	<0.00020	<0.00020	<0.000020	5	<0.00020	0.0000634	0.004	0.0176	0.0001
Mg-T	mg/L	1.17	1.29	1.15	1.23	1.22	5	1.29	1.21			1.27
Mn-T	mg/L	0.0429	0.137	0.198	0.297	0.0134	5	0.297	0.1377	0.737	0.8706	0.2574
P-T	mg/L	<0.0030	0.0067	0.0040	<0.0030	0.0041	5	0.0067	0.00356	0.015		0.00566
Mo-T	mg/L	0.000140	<0.0010	<0.0010	<0.0010	0.000122	5	<0.0010	0.000352	7.6	46.0	0.0005
Ni-T	mg/L	0.000123	<0.0010	<0.0010	<0.0010	0.00012	5	<0.0010	0.000349	0.025		0.0005
K-T	mg/L	0.180	0.202	0.199	0.194	<0.25	5	0.202	0.180			0.201
S-T	mg/L	4.3	4.5	4.5	4.4	4.6	5	4.6	4.5			4.6
Se-T	mg/L	0.000082	<0.00010	<0.00010	<0.00010	0.000065	5	0.000082	0.000059	0.002		7.50E-05
Ag-T	mg/L	<0.0000050	<0.000020	<0.000020	<0.000020	<0.000010	5	<0.000020	0.00000750	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.42	6.78	5.85	6.44	6.82	5	6.82	6.46			6.8
Sr-T	mg/L	0.0493	0.0511	0.0476	0.0496	0.0467	5	0.0511	0.0489			0.0505
Zn-T	mg/L	0.00053	<0.0050	<0.0050	<0.0050	<0.0010	5	<0.0050	0.00171	0.0075	0.033	0.0025
Al-D	mg/L	0.0128	0.0131	0.0133	0.0143	0.00894	5	0.0143	0.01249			0.0139
As-D	mg/L	0.000657	0.000664	0.00084	0.00088	0.000567	5	0.00088	0.000722			0.000864
Ba-D	mg/L	0.00379	0.00479	0.0053	0.0061	0.00341	5	0.0061	0.00468			0.00578
B-D	mg/L	0.030	0.026	<0.050	<0.050	0.033	5	0.033	0.0278			0.0318
Cd-D	mg/L	0.0000086	0.0000100	<0.000010	<0.000010	<0.0000050	5	0.0000100	0.00000622	0.000087	0.00017	9.44E-06
Ca-D	mg/L	10.3	10.4	10.5	10.6	9.73	5	10.6	10.31			10.56
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0		4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00010	0.00021	<0.0010	<0.0010	0.00012	5	<0.0010	0.00029			0.0005
Co-D	mg/L	0.0000409	0.0000690	<0.00020	<0.00020	0.0000128	5	<0.00020	0.0000645			0.0001
Cu-D	mg/L	0.000509	0.000563	0.00049	0.00058	0.000474	5	0.00058	0.000523	*	*	0.000573
DOC	mg/L	2.8	2.8	3.1	3.0	2.7	5	3.1	2.9			3.1
Hard-D	mg/L	30.6	31.0	31.5	31.9	29.2	5	31.9	30.8			31.7
Fe-D	mg/L	0.104	0.183	0.260	0.311	0.0514	5	0.311	0.1819			0.2906
Pb-D	mg/L	0.0000070	0.0000080	<0.00020	<0.00020	<0.0000050	5	<0.00020	0.00004350			0.0001
Mg-D	mg/L	1.21	1.22	1.27	1.30	1.19	5	1.30	1.24			1.29
Mn-D	mg/L	0.0429	0.0996	0.175	0.296	0.00501	5	0.296	0.12370			0.2476
Mo-D	mg/L	0.000140	0.000157	<0.0010	<0.0010	0.000149	5	<0.0010	0.000289			0.0005
Ni-D	mg/L	0.000146	0.000138	<0.0010	<0.0010	0.000062	5	<0.0010	0.000269			0.0005
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	5	<0.000020	0.00000550			1.00E-05
K-D	mg/L	0.176	0.187	0.186	0.196	0.173	5	0.196	0.184			0.192
S-D	mg/L	4.6	4.8	3.6	4.5	4.5	5	4.8	4.4			4.7
Se-D	mg/L	0.000073	0.000081	<0.00010	<0.00010	0.000077	5	0.000081	0.000066			7.90E-05
Na-D	mg/L	6.38	6.14	6.42	6.59	6.45	5	6.59	6.40			6.53
Sr-D	mg/L	0.0448	0.0481	0.0474	0.0515	0.0439	5	0.0515	0.0471			0.0501
Zn-D	mg/L	0.00060	0.00068	<0.0050	<0.0050	0.00057	5	<0.0050	0.00137	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	0.033	0.028	<0.020	<0.020	5	0.033	0.0182			0.031

Notes: *Calculated guideline. Refer to Exceedance Tables.

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 1 M											
StnCode	LLM1											
		7-Oct-25	15-Oct-25	22-Oct-25	29-Oct-25	6-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		
										Chronic	Acute	90th Percentile
SO4-D	mg/L	61	58	52	25	12	5	61	41.6	128		59.8
Turb	NTU	<1	0.46	0.54	0.83	1.1	5	1.1	0.7325			1.019
Alk-T	mg/L	34	29	32	21	15	5	34	26.2			33.2
Al-T	mg/L	0.0159	0.0121	0.0111	0.048	0.0568	5	0.0568	0.0288	*		0.0533
As-T	mg/L	0.000648	0.000557	0.000489	0.000462	0.000348	5	0.000648	0.000501	0.005		0.000612
B-T	mg/L	0.062	0.056	0.053	0.033	0.023	5	0.062	0.045	1.2		0.06
Ba-T	mg/L	0.00626	0.0059	0.00477	0.00366	0.00247	5	0.00626	0.00461	1.00		0.00612
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	25.4	24.3	22.1	12.9	7.58	5	25.4	18.46			24.96
Cr-T	mg/L	<0.00010	0.0001	<0.00010	0.00016	0.00016	5	0.00016	0.000104			0.00016
Co-T	mg/L	0.0000228	0.0000166	0.0000112	0.0000341	0.0000287	5	0.0000341	0.0000227	0.004	0.11	3.19E-05
Cu-T	mg/L	0.000561	0.000359	0.000329	0.000567	0.000544	5	0.000567	0.000472			0.000565
Fe-T	mg/L	0.0469	0.0425	0.0379	0.077	0.0753	5	0.077	0.0559	*	1.0	0.0763
Hard-T	mg/L	77.1	72.5	67.8	39.7	24.3	5	77.1	56.3			75.3
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000069	0.0000072	5	0.0000072	0.00000432	0.004	0.0176	7.08E-06
Mg-T	mg/L	3.32	2.88	3.08	1.82	1.31	5	3.32	2.48			3.22
Mn-T	mg/L	0.00988	0.0106	0.00829	0.00648	0.00392	5	0.0106	0.00783	0.737	0.8706	0.01031
P-T	mg/L	0.0033					1	0.0033	0.0033	0.015		0.0033
Mo-T	mg/L	0.00019	0.000155	0.000132	0.000127	0.000149	5	0.00019	0.000151	7.6	46.0	0.000176
Ni-T	mg/L	0.000167	0.000124	0.00009	0.000116	0.000098	5	0.000167	0.000119	0.025		0.00015
K-T	mg/L	0.332	0.289	0.262	0.231	0.144	5	0.332	0.252			0.315
S-T	mg/L	20.5	17.3	16.9	9.1	3.5	5	20.5	13.5			19.2
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	8.22	7.09	7.02	3.82	2.23	5	8.22	5.68			7.77
Sr-T	mg/L	0.182	0.154	0.132	0.0698	0.0337	5	0.182	0.1143			0.1708
Zn-T	mg/L	0.00043	0.00061	0.0003	0.00049	0.0005	5	0.00061	0.00047	0.0075	0.033	0.00057
Al-D	mg/L	0.00753	0.00851	0.00795	0.0336	0.0472	5	0.0472	0.02096			0.04176
As-D	mg/L	0.000578	0.000554	0.000518	0.000432	0.000376	5	0.000578	0.000492			0.000568
Ba-D	mg/L	0.00596	0.00589	0.00554	0.00323	0.00252	5	0.00596	0.00463			0.00593
B-D	mg/L	0.059	0.075	0.057	0.032	0.02	5	0.075	0.049			0.069
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	24.5	25	23.6	12.1	7.3	5	25	18.5			24.8
Cr-D	mg/L	<0.00010	0.00012	0.00011	0.00019	0.00018	5	0.00019	0.000130			0.000186
Co-D	mg/L	0.0000096	0.0000101	0.0000101	0.0000218	0.0000241	5	0.0000241	0.0000151			2.32E-05
Cu-D	mg/L	0.000428	0.00036	0.00037	0.000511	0.000613	5	0.000613	0.000456	*	*	0.000572
DOC	mg/L	3.2	3.6	3.4	4.6	5.2	5	5.2	4.0			5
Hard-D	mg/L	74.1	76.3	71.4	37.9	22.7	5	76.3	56.5			75.4
Fe-D	mg/L	0.0194	0.0193	0.0184	0.0449	0.0558	5	0.0558	0.0316			0.0514
Pb-D	mg/L	<0.0000050	<0.0000050	0.000183	<0.0000050	<0.0000050	5	0.000183	0.00003860			0.0001108
Mg-D	mg/L	3.15	3.39	3.01	1.88	1.09	5	3.39	2.50			3.29
Mn-D	mg/L	0.0047	0.00352	0.00299	0.00344	0.00282	5	0.0047	0.00349			0.00423
Mo-D	mg/L	0.000201	0.000163	0.000176	0.00014	0.000152	5	0.000201	0.000166			0.000191
Ni-D	mg/L	0.000142	0.00011	0.000124	0.000093	0.000088	5	0.000142	0.000111			0.000135
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.31	0.305	0.303	0.21	0.146	5	0.31	0.255			0.308
S-D	mg/L	19.7	19.1	17.3	7.9	3.7	5	19.7	13.5			19.5
Se-D	mg/L	<0.000040	<0.000040	<0.000040	0.00004	<0.000040	5	0.00004	0.0000240			3.20E-05
Na-D	mg/L	7.85	7.84	7.33	3.81	2.06	5	7.85	5.78			7.85
Sr-D	mg/L	0.169	0.166	0.157	0.0638	0.0368	5	0.169	0.1185			0.1678
Zn-D	mg/L	0.00121	0.00071	0.0011	0.00089	0.00094	5	0.00121	0.00097			0.00117
N-NO23	mg/L	0.085	<0.020	<0.020	0.024	<0.020	5	0.085	0.0278			0.0606
Chlr-a	ug/L	1.7					1	1.7	1.7			1.7
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 4 M											
StnCode	LLM4											
		7-Oct-25	15-Oct-25	22-Oct-25	29-Oct-25	6-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	61	58	54	25	20	5	61	43.6	128		59.8
Turb	NTU	<1	0.32	0.32	0.75	0.98	5	0.98	0.5925			0.9
Alk-T	mg/L	35	33	34	21	18	5	35	28.2			34.6
Al-T	mg/L	0.0175	0.0126	0.0111	0.0489	0.0538	5	0.0538	0.0288	*		0.0518
As-T	mg/L	0.000646	0.00054	0.000494	0.000414	0.00038	5	0.000646	0.000495	0.005		0.000604
B-T	mg/L	0.064	0.061	0.056	0.031	0.029	5	0.064	0.048	1.2		0.063
Ba-T	mg/L	0.00625	0.0058	0.00491	0.00351	0.00319	5	0.00625	0.00473	1.00		0.00607
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000054	<0.0000050	5	0.0000054	0.00000308			4.24E-06
Ca-T	mg/L	24.8	24.2	23.4	12.4	9.84	5	24.8	18.93			24.56
Cr-T	mg/L	<0.00010	0.00012	<0.00010	0.00016	0.00018	5	0.00018	0.000112			0.000172
Co-T	mg/L	0.000018	0.0000169	0.000011	0.0000257	0.0000307	5	0.0000307	0.0000205	0.004	0.11	2.87E-05
Cu-T	mg/L	0.000365	0.000366	0.000327	0.000543	0.000526	5	0.000543	0.000425			0.000536
Fe-T	mg/L	0.0456	0.0411	0.0403	0.0775	0.076	5	0.0775	0.0561	*	1.0	0.0769
Hard-T	mg/L	75.5	72.4	71.4	38.6	31.6	5	75.5	57.9			74.3
Pb-T	mg/L	0.0000133	<0.0000050	<0.0000050	0.0000052	0.0000088	5	0.0000133	0.00000646	0.004	0.0176	1.15E-05
Mg-T	mg/L	3.3	2.92	3.16	1.82	1.7	5	3.3	2.58			3.24
Mn-T	mg/L	0.00973	0.0107	0.00862	0.00631	0.00485	5	0.0107	0.00804	0.737	0.8706	0.01031
P-T	mg/L	0.0035					1	0.0035	0.0035	0.015		0.0035
Mo-T	mg/L	0.000185	0.000181	0.000137	0.000175	0.000146	5	0.000185	0.000165	7.6	46.0	0.000183
Ni-T	mg/L	0.000125	0.000125	0.000112	0.000096	0.000111	5	0.000125	0.000114	0.025		0.000125
K-T	mg/L	0.322	0.29	0.269	0.216	0.186	5	0.322	0.257			0.309
S-T	mg/L	19.4	17.6	16.9	10.6	5.9	5	19.4	14.1			18.7
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	7.98	7.31	7.32	3.78	2.98	5	7.98	5.87			7.72
Sr-T	mg/L	0.179	0.156	0.144	0.0693	0.054	5	0.179	0.1205			0.1698
Zn-T	mg/L	0.00028	0.00054	0.00022	0.00044	0.00048	5	0.00054	0.00039	0.0075	0.033	0.00052
Al-D	mg/L	0.00754	0.00806	0.00745	0.0354	0.0436	5	0.0436	0.02041			0.04032
As-D	mg/L	0.000608	0.000551	0.000517	0.000369	0.000409	5	0.000608	0.000491			0.000585
Ba-D	mg/L	0.00587	0.00577	0.00554	0.00312	0.00321	5	0.00587	0.00470			0.00583
B-D	mg/L	0.06	0.074	0.058	0.033	0.026	5	0.074	0.050			0.068
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	24.4	24.8	23.5	12.1	9.85	5	24.8	18.93			24.64
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.00018	0.00019	5	0.00019	0.000104			0.000186
Co-D	mg/L	0.0000098	0.0000098	0.0000123	0.0000261	0.0000248	5	0.0000261	0.0000166			2.56E-05
Cu-D	mg/L	0.000363	0.000342	0.000346	0.000545	0.000562	5	0.000562	0.000432	*	*	0.000555
DOC	mg/L	3.4	3.6	3.3	4.6	5.1	5	5.1	4.0			4.9
Hard-D	mg/L	73.7	75.5	71.3	38	30.4	5	75.5	57.8			74.8
Fe-D	mg/L	0.021	0.0186	0.0182	0.0476	0.0549	5	0.0549	0.0321			0.052
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	3.1	3.32	3.05	1.9	1.4	5	3.32	2.55			3.23
Mn-D	mg/L	0.00445	0.00339	0.00256	0.00333	0.00352	5	0.00445	0.00345			0.00408
Mo-D	mg/L	0.000194	0.000176	0.00017	0.000127	0.000167	5	0.000194	0.000167			0.000187
Ni-D	mg/L	0.000137	0.000125	0.000095	0.0001	0.000107	5	0.000137	0.000113			0.000132
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.312	0.301	0.309	0.2	0.189	5	0.312	0.262			0.311
S-D	mg/L	20.2	19.3	18.4	7.9	6.4	5	20.2	14.4			19.8
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	7.93	7.84	7.51	3.81	2.75	5	7.93	5.97			7.89
Sr-D	mg/L	0.168	0.165	0.157	0.0622	0.0554	5	0.168	0.1215			0.1668
Zn-D	mg/L	0.00036	0.00045	0.00093	0.00055	0.00051	5	0.00093	0.00056			0.00078
N-NO23	mg/L	<0.20	<0.020	<0.020	0.022	<0.020	5	<0.20	0.0304			0.0688

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 9 M											
StnCode	LLM9											
		7-Oct-25	15-Oct-25	22-Oct-25	29-Oct-25	6-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	85	85	52	62	49	5	85	66.6	128		85
Turb	NTU	1.18	1.5	2.5	5	6.2	5	6.2	3.276			5.7
Alk-T	mg/L	41	37	32	34	27	5	41	34.2			39.4
Al-T	mg/L	0.0165	0.0137	0.0123	0.0403	0.0489	5	0.0489	0.0263	*		0.0455
As-T	mg/L	0.000303	0.000231	0.000217	0.000423	0.000441	5	0.000441	0.000323	0.005		0.000434
B-T	mg/L	0.079	0.075	0.07	0.066	0.047	5	0.079	0.067	1.2		0.077
Ba-T	mg/L	0.00673	0.00604	0.00536	0.00679	0.00529	5	0.00679	0.00604	1.00		0.00677
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	32.8	32.5	32.3	28.9	19.2	5	32.8	29.1			32.7
Cr-T	mg/L	<0.00010	0.00016	0.0001	0.00016	0.00014	5	0.00016	0.000122			0.00016
Co-T	mg/L	0.0000224	0.0000219	0.0000123	0.0000342	0.0000335	5	0.0000342	0.0000249	0.004	0.11	3.39E-05
Cu-T	mg/L	0.000396	0.000364	0.000309	0.000572	0.000461	5	0.000572	0.000420			0.000528
Fe-T	mg/L	0.0392	0.0294	0.0308	0.0866	0.0927	5	0.0927	0.0557	*	1.0	0.0903
Hard-T	mg/L	97.9	96.4	97.1	87.3	59.4	5	97.9	87.6			97.6
Pb-T	mg/L	0.0000052	<0.0000050	<0.0000050	0.0000097	0.0000085	5	0.0000097	0.00000568	0.004	0.0176	9.22E-06
Mg-T	mg/L	3.88	3.67	4.01	3.68	2.79	5	4.01	3.61			3.96
Mn-T	mg/L	0.0271	0.0225	0.0224	0.0172	0.00852	5	0.0271	0.01954	0.737	0.8706	0.02526
P-T	mg/L	0.0036					1	0.0036	0.0036	0.015		0.0036
Mo-T	mg/L	0.00014	0.000124	0.000103	0.000124	0.000128	5	0.00014	0.000124	7.6	46.0	0.000135
Ni-T	mg/L	0.000179	0.00019	0.000164	0.000182	0.000153	5	0.00019	0.000174	0.025		0.000187
K-T	mg/L	0.413	0.387	0.362	0.42	0.303	5	0.42	0.377			0.417
S-T	mg/L	28	25.5	25.5	18.9	14.3	5	28	22.4			27
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	11.1	10.6	11	8.91	5.62	5	11.1	9.45			11.06
Sr-T	mg/L	0.255	0.229	0.242	0.19	0.121	5	0.255	0.207			0.25
Zn-T	mg/L	0.00062	0.00062	0.00032	0.00067	0.00046	5	0.00067	0.00054	0.0075	0.033	0.00065
Al-D	mg/L	0.0112	0.0125	0.0117	0.0223	0.0334	5	0.0334	0.0182			0.029
As-D	mg/L	0.000239	0.000207	0.00021	0.00045	0.000458	5	0.000458	0.000313			0.000455
Ba-D	mg/L	0.00626	0.00605	0.00584	0.00626	0.00565	5	0.00626	0.00601			0.00626
B-D	mg/L	0.077	0.089	0.079	0.074	0.045	5	0.089	0.073			0.085
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	31.9	34.1	33	28.8	19	5	34.1	29.4			33.7
Cr-D	mg/L	<0.00010	0.00016	0.00014	0.00014	0.00016	5	0.00016	0.000130			0.00016
Co-D	mg/L	0.000014	0.0000134	0.0000146	0.0000255	0.0000265	5	0.0000265	0.0000188			2.61E-05
Cu-D	mg/L	0.00038	0.000344	0.000341	0.000407	0.000511	5	0.000511	0.000397	*	*	0.000469
DOC	mg/L	2.8	3.2	2.8	4	5.1	5	5.1	3.6			4.7
Hard-D	mg/L	95.1	102	98.6	87.7	57.3	5	102	88.1			100.6
Fe-D	mg/L	0.0191	0.0174	0.0173	0.0482	0.058	5	0.058	0.0320			0.0541
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	3.77	3.97	3.91	3.85	2.4	5	3.97	3.58			3.95
Mn-D	mg/L	0.022	0.016	0.0128	0.0118	0.00716	5	0.022	0.01395			0.0196
Mo-D	mg/L	0.000132	0.000119	0.000129	0.000125	0.000139	5	0.000139	0.000129			0.000136
Ni-D	mg/L	0.000217	0.000169	0.000171	0.000245	0.000147	5	0.000245	0.000190			0.000234
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.402	0.389	0.405	0.416	0.316	5	0.416	0.386			0.412
S-D	mg/L	27.6	27.9	27	21.1	15.7	5	27.9	23.9			27.8
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	10.9	11.5	11.3	9.41	5.21	5	11.5	9.66			11.42
Sr-D	mg/L	0.248	0.245	0.242	0.178	0.136	5	0.248	0.210			0.247
Zn-D	mg/L	0.00047	0.00049	0.00077	0.0006	0.0006	5	0.00077	0.00059			0.0007
N-NO23	mg/L	0.053	0.045	0.023	0.028	<0.020	5	0.053	0.0318			0.0498

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 1M From B											
StnCode	LLMB											
		7-Oct-25	15-Oct-25	22-Oct-25	29-Oct-25	6-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	84	82	52	75	75	5	84	73.6	128		83.2
Turb	NTU	0.16	0.64	0.52	1.5	0.58	5	1.5	0.68			1.2
Alk-T	mg/L	43	42	33	42	43	5	43	40.6			43
Al-T	mg/L	0.0153	0.0142	0.0108	0.0102	0.0115	5	0.0153	0.0124	*		0.0149
As-T	mg/L	0.000445	0.000402	0.000386	0.000399	0.000321	5	0.000445	0.000391	0.005		0.000428
B-T	mg/L	0.081	0.081	0.072	0.082	0.078	5	0.082	0.079	1.2		0.082
Ba-T	mg/L	0.0144	0.0148	0.0115	0.0116	0.0083	5	0.0148	0.0121	1.00		0.0146
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	34.3	34.3	32.8	34	32.1	5	34.3	33.5			34.3
Cr-T	mg/L	<0.00010	0.00014	<0.00010	0.00014	<0.00010	5	0.00014	0.000086			0.00014
Co-T	mg/L	0.000222	0.000155	0.000192	0.000148	0.0000577	5	0.000222	0.0001549	0.004	0.11	0.00021
Cu-T	mg/L	0.000431	0.000379	0.000336	0.000404	0.000309	5	0.000431	0.000372			0.00042
Fe-T	mg/L	0.181	0.123	0.169	0.143	0.0792	5	0.181	0.1390	*	1.0	0.1762
Hard-T	mg/L	102	102	99	102	96.9	5	102	100.4			102
Pb-T	mg/L	<0.0000050	0.0000061	<0.0000050	<0.0000050	<0.0000050	5	0.0000061	0.00000322	0.004	0.0176	4.66E-06
Mg-T	mg/L	4.06	3.95	4.14	4.07	4.07	5	4.14	4.06			4.11
Mn-T	mg/L	0.998	0.821	1.11	0.925	0.384	5	1.11	0.848	0.737	0.8706	1.065
P-T	mg/L	0.0049					1	0.0049	0.0049	0.015		0.0049
Mo-T	mg/L	0.000244	0.000219	0.000235	0.000161	0.000111	5	0.000244	0.000194	7.6	46.0	0.00024
Ni-T	mg/L	0.000277	0.000228	0.000238	0.000247	0.000226	5	0.000277	0.000243	0.025		0.000265
K-T	mg/L	0.446	0.403	0.38	0.438	0.431	5	0.446	0.420			0.443
S-T	mg/L	29	28.7	26	27.1	26.2	5	29	27.4			28.9
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	11.5	11.1	11.2	12	11.6	5	12	11.5			11.8
Sr-T	mg/L	0.271	0.256	0.255	0.25	0.239	5	0.271	0.254			0.265
Zn-T	mg/L	0.00042	0.00064	0.00031	0.00048	0.00035	5	0.00064	0.00044	0.0075	0.033	0.00058
Al-D	mg/L	0.00748	0.00947	0.00676	0.00751	0.00554	5	0.00947	0.00735			0.00869
As-D	mg/L	0.000289	0.000273	0.000258	0.000251	0.000244	5	0.000289	0.000263			0.000283
Ba-D	mg/L	0.0132	0.0117	0.0117	0.00771	0.00605	5	0.0132	0.01007			0.0126
B-D	mg/L	0.075	0.094	0.077	0.087	0.077	5	0.094	0.082			0.091
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	32.9	34	33.5	34	31.6	5	34	33.2			34
Cr-D	mg/L	<0.00010	0.00015	0.00011	0.00012	0.00011	5	0.00015	0.000108			0.000138
Co-D	mg/L	0.000187	0.000111	0.000106	0.0000386	0.0000144	5	0.000187	0.0000914			0.0001566
Cu-D	mg/L	0.000371	0.000338	0.000354	0.000347	0.000332	5	0.000371	0.000348	*	*	0.000364
DOC	mg/L	2.5	2.7	2.5	2.6	2.9	5	2.9	2.6			2.8
Hard-D	mg/L	97.5	101	99.9	101	94.1	5	101	98.7			101
Fe-D	mg/L	0.0558	0.0424	0.0518	0.0366	0.0199	5	0.0558	0.0413			0.0542
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	3.73	3.96	3.95	4	3.69	5	4	3.87			3.98
Mn-D	mg/L	0.966	0.788	0.949	0.521	0.00273	5	0.966	0.64535			0.9592
Mo-D	mg/L	0.000242	0.000217	0.000229	0.000181	0.000089	5	0.000242	0.000192			0.000237
Ni-D	mg/L	0.000264	0.000246	0.000256	0.00025	0.000223	5	0.000264	0.000248			0.000261
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.418	0.399	0.422	0.415	0.407	5	0.422	0.412			0.42
S-D	mg/L	27.8	27.2	27.8	30.6	27.6	5	30.6	28.2			29.5
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	11	11.5	11.5	11.6	9.91	5	11.6	11.10			11.56
Sr-D	mg/L	0.248	0.253	0.255	0.227	0.27	5	0.27	0.251			0.264
Zn-D	mg/L	0.00046	0.00057	0.00072	0.00045	0.00027	5	0.00072	0.00049			0.00066
N-NO23	mg/L	0.111	0.118	0.023	0.118	0.105	5	0.118	0.095			0.118

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 1M											
StnCode	MQL1									Water Quality Guidelines		
	7-Oct-25	16-Oct-25	21-Oct-25	30-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	20	19	18	14	4.3	5	20	15.1	128		19.6
Turb	NTU	0.31	0.66	0.55	0.72	0.62	5	0.72	0.572			0.7
Alk-T	mg/L	39	33	33	31	22	5	39	31.6			36.6
Al-T	mg/L	0.00825	0.00730	0.00729	0.0214	0.0278	5	0.0278	0.01441	*		0.02524
As-T	mg/L	0.000183	0.000180	0.000167	0.000167	0.000141	5	0.000183	0.000168	0.005		0.000182
B-T	mg/L	0.041	0.038	0.033	0.027	0.013	5	0.041	0.030	1.2		0.04
Ba-T	mg/L	0.0018	0.00178	0.00177	0.00168	0.00141	5	0.0018	0.00169	1.00		0.00179
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	11.1	10.1	10.4	8.77	6.95	5	11.1	9.46			10.82
Cr-T	mg/L	<0.00010	0.00010	<0.00010	<0.00010	0.0002	5	0.0002	0.000090			0.00016
Co-T	mg/L	0.0000119	0.0000122	0.0000132	0.0000172	0.0000177	5	0.0000177	0.0000144	0.004	0.11	1.75E-05
Cu-T	mg/L	0.00052	0.000448	0.000458	0.000507	0.000604	5	0.000604	0.000507			0.00057
Fe-T	mg/L	0.0384	0.0326	0.0396	0.0480	0.0314	5	0.0480	0.0380	*	1.0	0.0446
Hard-T	mg/L	33.4	30.7	31.4	26.6	21	5	33.4	28.6			32.6
Pb-T	mg/L	0.0000232	<0.0000050	<0.0000050	0.0000050	<0.0000050	5	0.0000232	0.00000714	0.004	0.0176	1.59E-05
Mg-T	mg/L	1.39	1.31	1.31	1.15	0.898	5	1.39	1.212			1.358
Mn-T	mg/L	0.0193	0.0237	0.0297	0.0199	0.0052	5	0.0297	0.0196	0.737	0.8706	0.0273
P-T	mg/L	<0.0030					1	<0.0030	0.00150	0.015		0.003
Mo-T	mg/L	0.000198	0.000214	0.000168	0.000169	0.000199	5	0.000214	0.000190	7.6	46.0	0.000208
Ni-T	mg/L	0.000132	0.000057	0.000062	0.000068	0.000067	5	0.000132	0.000077	0.025		0.000106
K-T	mg/L	0.212	0.181	0.169	0.184	0.108	5	0.212	0.171			0.201
S-T	mg/L	7.1	6.8	5.9	4.5	<3.0	5	7.1	5.16			6.98
Se-T	mg/L	0.000063	0.000049	0.000045	0.000051	0.000054	5	0.000063	0.000052	0.002		5.90E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	10.5	9.14	8.50	6.53	2.29	5	10.5	7.39			9.96
Sr-T	mg/L	0.0574	0.0494	0.0480	0.0351	0.0196	5	0.0574	0.0419			0.0542
Zn-T	mg/L	0.0004	0.00037	0.00064	0.00028	0.00081	5	0.00081	0.00050	0.0075	0.033	0.00074
Al-D	mg/L	0.00498	0.00515	0.00448	0.0154	0.018	5	0.018	0.00960			0.01696
As-D	mg/L	0.000174	0.000166	0.000166	0.000169	0.000138	5	0.000174	0.000163			0.000172
Ba-D	mg/L	0.00162	0.00165	0.00167	0.00148	0.00127	5	0.00167	0.00154			0.00166
B-D	mg/L	0.035	0.034	0.035	0.030	0.012	5	0.035	0.029			0.035
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	10.6	10.9	10.1	8.98	7.08	5	10.9	9.53			10.78
Cr-D	mg/L	<0.00010	0.00010	0.00013	0.00011	0.00014	5	0.00014	0.000106			0.000136
Co-D	mg/L	0.0000059	0.0000084	0.0000092	0.0000116	0.0000125	5	0.0000125	0.0000095			1.21E-05
Cu-D	mg/L	0.000461	0.000391	0.000424	0.000521	0.00056	5	0.00056	0.000471	*	*	0.000544
DOC	mg/L	2	2.1	1.9	2.7	2.8	5	2.8	2.3			2.8
Hard-D	mg/L	31.6	32.8	30.5	27.4	21.2	5	32.8	28.7			32.3
Fe-D	mg/L	0.0147	0.0125	0.0141	0.0231	0.0183	5	0.0231	0.0165			0.0212
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	1.27	1.33	1.29	1.21	0.853	5	1.33	1.191			1.314
Mn-D	mg/L	0.000996	0.00715	0.0130	0.00903	0.00255	5	0.0130	0.006545			0.011412
Mo-D	mg/L	0.000184	0.000226	0.000240	0.000233	0.000247	5	0.000247	0.000226			0.000244
Ni-D	mg/L	0.000076	0.000045	0.000059	0.000089	0.00006	5	0.000089	0.000066			8.40E-05
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.196	0.185	0.176	0.175	0.103	5	0.196	0.167			0.192
S-D	mg/L	19	6.5	5.9	5.6	<3.0	5	19	7.70			14
Se-D	mg/L	0.000047	0.000047	0.000049	0.000052	0.000046	5	0.000052	0.000048			5.10E-05
Na-D	mg/L	9.92	9.58	8.78	6.93	2.05	5	9.92	7.45			9.78
Sr-D	mg/L	0.0512	0.0501	0.0482	0.0348	0.0188	5	0.0512	0.0406			0.0508
Zn-D	mg/L	0.00055	0.00258	0.00151	0.00109	0.00225	5	0.00258	0.00160			0.00245
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L	1.4					1	1.4	1.4			1.4
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 4M											
StnCode	MQL4											
		7-Oct-25	16-Oct-25	21-Oct-25	30-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	21	19	18	13	8.1	5	21	15.8	128		20.2
Turb	NTU	0.36	0.86	0.91	0.96	0.58	5	0.96	0.734			0.9
Alk-T	mg/L	35	33	40	28	25	5	40	32.2			38
Al-T	mg/L	0.00828	0.00736	0.00751	0.0219	0.0241	5	0.0241	0.01383	*		0.02322
As-T	mg/L	0.00018	0.000166	0.000160	0.000175	0.000153	5	0.00018	0.000167	0.005		0.000178
B-T	mg/L	0.04	0.037	0.034	0.029	0.018	5	0.04	0.032	1.2		0.039
Ba-T	mg/L	0.00177	0.00172	0.00172	0.00169	0.00152	5	0.00177	0.00168	1.00		0.00175
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	11.2	10.5	10.5	9.02	7.64	5	11.2	9.77			10.92
Cr-T	mg/L	<0.00010	0.00010	0.00011	0.00012	0.00014	5	0.00014	0.000104			0.000132
Co-T	mg/L	0.0000122	0.0000108	0.0000138	0.0000184	0.0000172	5	0.0000184	0.0000145	0.004	0.11	1.79E-05
Cu-T	mg/L	0.000495	0.000433	0.000444	0.000534	0.000563	5	0.000563	0.000494			0.000551
Fe-T	mg/L	0.0364	0.0325	0.0391	0.0465	0.0372	5	0.0465	0.0383	*	1.0	0.0435
Hard-T	mg/L	33.6	31.5	31.8	27.5	23.2	5	33.6	29.5			32.9
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000068	<0.0000050	5	0.0000068	0.00000336	0.004	0.0176	5.08E-06
Mg-T	mg/L	1.38	1.27	1.34	1.20	0.991	5	1.38	1.236			1.364
Mn-T	mg/L	0.0193	0.0219	0.0291	0.0203	0.00921	5	0.0291	0.01996	0.737	0.8706	0.02622
P-T	mg/L	0.0033					1	0.0033	0.0033	0.015		0.0033
Mo-T	mg/L	0.000204	0.000180	0.000190	0.000164	0.000175	5	0.000204	0.000183	7.6	46.0	0.000198
Ni-T	mg/L	0.000105	0.000057	0.000069	0.000077	0.000066	5	0.000105	0.000075	0.025		9.40E-05
K-T	mg/L	0.212	0.182	0.168	0.183	0.126	5	0.212	0.174			0.2
S-T	mg/L	6.6	6.6	6.3	6.4	<3.0	5	6.6	5.48			6.6
Se-T	mg/L	0.00006	0.000045	0.000046	0.000045	0.000051	5	0.00006	0.000049	0.002		5.60E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	10.5	9.41	8.91	6.83	3.69	5	10.5	7.87			10.06
Sr-T	mg/L	0.0567	0.0491	0.0475	0.0357	0.0247	5	0.0567	0.0427			0.0537
Zn-T	mg/L	0.00013	0.00017	0.00023	0.00027	0.00043	5	0.00043	0.00025	0.0075	0.033	0.00037
Al-D	mg/L	0.00464	0.00478	0.00414	0.0170	0.0168	5	0.0170	0.00947			0.01692
As-D	mg/L	0.000182	0.000159	0.000156	0.000167	0.000156	5	0.000182	0.000164			0.000176
Ba-D	mg/L	0.00154	0.00166	0.00163	0.00150	0.00152	5	0.00166	0.00157			0.00165
B-D	mg/L	0.035	0.036	0.035	0.029	0.017	5	0.036	0.030			0.036
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	10.5	10.9	10.3	8.98	7.81	5	10.9	9.70			10.74
Cr-D	mg/L	<0.00010	0.00011	0.00015	0.00013	0.00014	5	0.00015	0.000116			0.000146
Co-D	mg/L	0.0000061	0.0000071	0.0000084	0.0000105	0.0000138	5	0.0000138	0.0000092			1.25E-05
Cu-D	mg/L	0.000414	0.000407	0.000421	0.000483	0.000533	5	0.000533	0.000452	*	*	0.000513
DOC	mg/L	1.9	2.0	1.9	2.7	2.9	5	2.9	2.3			2.8
Hard-D	mg/L	31.5	32.6	31.1	27.4	23.6	5	32.6	29.2			32.2
Fe-D	mg/L	0.0131	0.0123	0.0144	0.0230	0.0207	5	0.0230	0.0167			0.0221
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	1.29	1.31	1.30	1.20	0.993	5	1.31	1.219			1.306
Mn-D	mg/L	0.000467	0.000519	0.0127	0.00889	0.00363	5	0.0127	0.006175			0.011176
Mo-D	mg/L	0.000191	0.000194	0.000196	0.000188	0.000232	5	0.000232	0.000200			0.000218
Ni-D	mg/L	0.00006	0.000044	0.000052	0.000075	0.000067	5	0.000075	0.000060			7.20E-05
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.191	0.187	0.174	0.171	0.124	5	0.191	0.169			0.189
S-D	mg/L	6.8	6.6	5.8	4.0	<3.0	5	6.8	4.94			6.72
Se-D	mg/L	0.000049	0.000044	0.000041	0.000048	0.000044	5	0.000049	0.000045			4.90E-05
Na-D	mg/L	9.88	9.48	8.52	6.81	3.33	5	9.88	7.60			9.72
Sr-D	mg/L	0.0523	0.0504	0.0475	0.0339	0.0247	5	0.0523	0.0418			0.0515
Zn-D	mg/L	0.00056	0.00098	0.00052	0.00035	0.00076	5	0.00098	0.00063			0.00089
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 9M											
StnCode	MQL9											
		7-Oct-25	16-Oct-25	21-Oct-25	30-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	21	19	18	13	8.1	5	21	15.8	128		20.2
Turb	NTU	5.58	3.3	0.37	0.75	0.65	5	5.58	2.13			4.7
Alk-T	mg/L	35	33	40	28	25	5	40	32.2			38
Al-T	mg/L	0.00828	0.00736	0.00751	0.0219	0.0241	5	0.0241	0.01383	*		0.02322
As-T	mg/L	0.00018	0.000166	0.000160	0.000175	0.000153	5	0.00018	0.000167	0.005		0.000178
B-T	mg/L	0.04	0.037	0.034	0.029	0.018	5	0.04	0.032	1.2		0.039
Ba-T	mg/L	0.00177	0.00172	0.00172	0.00169	0.00152	5	0.00177	0.00168	1.00		0.00175
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	11.2	10.5	10.5	9.02	7.64	5	11.2	9.77			10.92
Cr-T	mg/L	<0.00010	0.00010	0.00011	0.00012	0.00014	5	0.00014	0.000104			0.000132
Co-T	mg/L	0.0000122	0.0000108	0.0000138	0.0000184	0.0000172	5	0.0000184	0.0000145	0.004	0.11	1.79E-05
Cu-T	mg/L	0.000495	0.000433	0.000444	0.000534	0.000563	5	0.000563	0.000494			0.000551
Fe-T	mg/L	0.0364	0.0325	0.0391	0.0465	0.0372	5	0.0465	0.0383	*	1.0	0.0435
Hard-T	mg/L	33.6	31.5	31.8	27.5	23.2	5	33.6	29.5			32.9
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000068	<0.0000050	5	0.0000068	0.00000336	0.004	0.0176	5.08E-06
Mg-T	mg/L	1.38	1.27	1.34	1.20	0.991	5	1.38	1.236			1.364
Mn-T	mg/L	0.0193	0.0219	0.0291	0.0203	0.00921	5	0.0291	0.01996	0.737	0.8706	0.02622
P-T	mg/L	0.0033					1	0.0033	0.0033	0.015		0.0033
Mo-T	mg/L	0.000204	0.000180	0.000190	0.000164	0.000175	5	0.000204	0.000183	7.6	46.0	0.000198
Ni-T	mg/L	0.000105	0.000057	0.000069	0.000077	0.000066	5	0.000105	0.000075	0.025		9.40E-05
K-T	mg/L	0.212	0.182	0.168	0.183	0.126	5	0.212	0.174			0.2
S-T	mg/L	6.6	6.6	6.3	6.4	<3.0	5	6.6	5.48			6.6
Se-T	mg/L	0.00006	0.000045	0.000046	0.000045	0.000051	5	0.00006	0.000049	0.002		5.60E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	10.5	9.41	8.91	6.83	3.69	5	10.5	7.87			10.06
Sr-T	mg/L	0.0567	0.0491	0.0475	0.0357	0.0247	5	0.0567	0.0427			0.0537
Zn-T	mg/L	0.00013	0.00017	0.00023	0.00027	0.00043	5	0.00043	0.00025	0.0075	0.033	0.00037
Al-D	mg/L	0.00464	0.00478	0.00414	0.0170	0.0168	5	0.0170	0.00947			0.01692
As-D	mg/L	0.000182	0.000159	0.000156	0.000167	0.000156	5	0.000182	0.000164			0.000176
Ba-D	mg/L	0.00154	0.00166	0.00163	0.00150	0.00152	5	0.00166	0.00157			0.00165
B-D	mg/L	0.035	0.036	0.035	0.029	0.017	5	0.036	0.030			0.036
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	10.5	10.9	10.3	8.98	7.81	5	10.9	9.70			10.74
Cr-D	mg/L	<0.00010	0.00011	0.00015	0.00013	0.00014	5	0.00015	0.000116			0.000146
Co-D	mg/L	0.0000061	0.0000071	0.0000084	0.0000105	0.0000138	5	0.0000138	0.0000092			1.25E-05
Cu-D	mg/L	0.000414	0.000407	0.000421	0.000483	0.000533	5	0.000533	0.000452	*	*	0.000513
DOC	mg/L	1.9	2.0	1.9	2.7	2.9	5	2.9	2.3			2.8
Hard-D	mg/L	31.5	32.6	31.1	27.4	23.6	5	32.6	29.2			32.2
Fe-D	mg/L	0.0131	0.0123	0.0144	0.0230	0.0207	5	0.0230	0.0167			0.0221
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	1.29	1.31	1.30	1.20	0.993	5	1.31	1.219			1.306
Mn-D	mg/L	0.000467	0.000519	0.0127	0.00889	0.00363	5	0.0127	0.006175			0.011176
Mo-D	mg/L	0.000191	0.000194	0.000196	0.000188	0.000232	5	0.000232	0.000200			0.000218
Ni-D	mg/L	0.00006	0.000044	0.000052	0.000075	0.000067	5	0.000075	0.000060			7.20E-05
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.191	0.187	0.174	0.171	0.124	5	0.191	0.169			0.189
S-D	mg/L	6.8	6.6	5.8	4.0	<3.0	5	6.8	4.94			6.72
Se-D	mg/L	0.000049	0.000044	0.000041	0.000048	0.000044	5	0.000049	0.000045			4.90E-05
Na-D	mg/L	9.88	9.48	8.52	6.81	3.33	5	9.88	7.60			9.72
Sr-D	mg/L	0.0523	0.0504	0.0475	0.0339	0.0247	5	0.0523	0.0418			0.0515
Zn-D	mg/L	0.00056	0.00098	0.00052	0.00035	0.00076	5	0.00098	0.00063			0.00089
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 1MB											
StnCode	MQLB											
		7-Oct-25	16-Oct-25	21-Oct-25	30-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	21	19	18	14	12	5	21	16.8	128		20.2
Turb	NTU	<1	0.51	0.43	0.97	1.4	5	1.4	0.8275			1.3
Alk-T	mg/L	36	40	32	28	26	5	40	32.4			38.4
Al-T	mg/L	0.00468	0.00713	0.00768	0.0219	0.0235	5	0.0235	0.01298	*		0.02286
As-T	mg/L	0.000156	0.000211	0.000172	0.000187	0.000162	5	0.000211	0.000178	0.005		0.000201
B-T	mg/L	0.041	0.040	0.034	0.030	0.024	5	0.041	0.034	1.2		0.041
Ba-T	mg/L	0.00269	0.00664	0.00172	0.00179	0.00182	5	0.00664	0.00293	1.00		0.00506
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	13	13.3	10.2	9.25	8.65	5	13.3	10.88			13.18
Cr-T	mg/L	<0.00010	0.00011	0.00011	0.00012	0.00013	5	0.00013	0.000104			0.000126
Co-T	mg/L	0.0000437	0.000384	0.0000137	0.0000181	0.0000188	5	0.000384	0.0000957	0.004	0.11	0.0002479
Cu-T	mg/L	0.00053	0.000418	0.000436	0.000520	0.000554	5	0.000554	0.000492			0.000544
Fe-T	mg/L	0.0432	0.509	0.0518	0.0468	0.0461	5	0.509	0.1394	*	1.0	0.3261
Hard-T	mg/L	39.3	39.7	30.8	28.1	26.3	5	39.7	32.8			39.5
Pb-T	mg/L	<0.0000050	0.0000053	<0.0000050	0.0000057	<0.0000050	5	0.0000057	0.00000370	0.004	0.0176	5.54E-06
Mg-T	mg/L	1.67	1.59	1.31	1.21	1.13	5	1.67	1.38			1.64
Mn-T	mg/L	0.53	1.07	0.0320	0.0204	0.0134	5	1.07	0.3332	0.737	0.8706	0.854
P-T	mg/L	0.0045					1	0.0045	0.0045	0.015		0.0045
Mo-T	mg/L	0.000233	0.000363	0.000177	0.000201	0.000192	5	0.000363	0.000233	7.6	46.0	0.000311
Ni-T	mg/L	0.000109	0.000100	0.000064	0.000073	0.000071	5	0.000109	0.000083	0.025		0.000105
K-T	mg/L	0.181	0.199	0.166	0.186	0.15	5	0.199	0.176			0.194
S-T	mg/L	7.2	6.6	6.0	4.1	3.9	5	7.2	5.6			7
Se-T	mg/L	0.000056	0.000072	0.000045	0.000051	0.000048	5	0.000072	0.000054	0.002		6.60E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	10.4	10.1	8.50	6.83	5.23	5	10.4	8.21			10.28
Sr-T	mg/L	0.0645	0.0629	0.0468	0.0352	0.0314	5	0.0645	0.0482			0.0639
Zn-T	mg/L	0.00027	0.00048	0.00020	0.00029	0.00045	5	0.00048	0.00034	0.0075	0.033	0.00047
Al-D	mg/L	0.00206	0.00294	0.00461	0.0149	0.0155	5	0.0155	0.00800			0.01526
As-D	mg/L	0.000134	0.000184	0.000160	0.000187	0.000149	5	0.000187	0.000163			0.000186
Ba-D	mg/L	0.00216	0.00615	0.00161	0.00157	0.00166	5	0.00615	0.00263			0.00455
B-D	mg/L	0.035	0.037	0.034	0.029	0.022	5	0.037	0.031			0.036
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	12	13.7	9.99	8.76	8.6	5	13.7	10.61			13.02
Cr-D	mg/L	<0.00010	0.00012	<0.00010	0.00016	0.00012	5	0.00016	0.000100			0.000144
Co-D	mg/L	0.0000251	0.000400	0.0000072	0.0000116	0.0000118	5	0.000400	0.0000911			0.00025
Cu-D	mg/L	0.000492	0.000359	0.000411	0.000490	0.0005	5	0.0005	0.000450	*	*	0.000497
DOC	mg/L	2	2.6	1.9	2.4	3	5	3	2.4			2.8
Hard-D	mg/L	36.3	41.0	30.2	26.8	25.9	5	41.0	32.0			39.1
Fe-D	mg/L	0.0079	0.164	0.0221	0.0220	0.0216	5	0.164	0.0475			0.1072
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	1.52	1.63	1.27	1.18	1.09	5	1.63	1.34			1.59
Mn-D	mg/L	0.363	1.17	0.0162	0.00883	0.00422	5	1.17	0.31245			0.8472
Mo-D	mg/L	0.000226	0.000389	0.000186	0.000195	0.000201	5	0.000389	0.000239			0.000324
Ni-D	mg/L	0.00009	0.000124	0.000047	0.000071	0.000065	5	0.000124	0.000079			0.00011
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.169	0.206	0.169	0.170	0.146	5	0.206	0.172			0.192
S-D	mg/L	6.6	6.5	6.1	3.1	3.5	5	6.6	5.2			6.6
Se-D	mg/L	0.000068	0.000062	0.000041	0.000042	0.000049	5	0.000068	0.000052			6.60E-05
Na-D	mg/L	9.76	10.4	8.24	6.82	4.73	5	10.4	7.99			10.14
Sr-D	mg/L	0.0578	0.0642	0.0455	0.0325	0.0301	5	0.0642	0.0460			0.0616
Zn-D	mg/L	0.00029	0.00066	0.00059	0.00033	0.00057	5	0.00066	0.00049			0.00063
N-NO23	mg/L	0.022	<0.020	<0.020	<0.020	<0.020	5	0.022	0.0124			0.0172

Notes: *Calculated guideline. Refer to Exceedance Tables.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	LLE Zone of Dilution 2											
StnName	LLEZ2											
StnCode										Water Quality Guidelines		
	7-Oct-25	16-Oct-25	21-Oct-25	30-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	62	59	54	33	19	5	62	45.4	128		60.8
Turb	NTU	<1	0.46	0.54	0.83	1.1	5	1.1	0.7325			1.019
Alk-T	mg/L	34	32	34	24	17	5	34	28.2			34
Al-T	mg/L	0.00881	0.0148	0.0133	0.0446	0.054	5	0.054	0.02710	*		0.05024
As-T	mg/L	0.000638	0.000585	0.000499	0.000443	0.00038	5	0.000638	0.000509	0.005		0.000617
B-T	mg/L	0.064	0.062	0.055	0.037	0.029	5	0.064	0.049	1.2		0.063
Ba-T	mg/L	0.00635	0.00615	0.005	0.00429	0.00313	5	0.00635	0.00498	1.00		0.00627
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	25.9	24.5	22.1	15	9.75	5	25.9	19.45			25.34
Cr-T	mg/L	<0.00010	0.00013	0.0001	0.00017	0.00018	5	0.00018	0.000126			0.000176
Co-T	mg/L	0.0000101	0.0000195	0.0000149	0.0000294	0.0000313	5	0.0000313	0.0000210	0.004	0.11	3.05E-05
Cu-T	mg/L	0.000378	0.000376	0.000327	0.000569	0.000535	5	0.000569	0.000437			0.000555
Fe-T	mg/L	0.0211	0.045	0.0425	0.0773	0.0755	5	0.0773	0.0523	*	1.0	0.0766
Hard-T	mg/L	78.6	74.1	68.7	46.3	31	5	78.6	59.7			76.8
Pb-T	mg/L	<0.0000050	0.0000073	<0.0000050	<0.0000050	0.0000084	5	0.0000084	0.00000464	0.004	0.0176	7.96E-06
Mg-T	mg/L	3.4	3.15	3.27	2.17	1.62	5	3.4	2.72			3.35
Mn-T	mg/L	0.00513	0.0108	0.00899	0.00762	0.0046	5	0.0108	0.00743	0.737	0.8706	0.01008
P-T	mg/L	0.0035					1	0.0035	0.0035	0.015		0.0035
Mo-T	mg/L	0.000188	0.000162	0.000151	0.000157	0.000146	5	0.000188	0.000161	7.6	46.0	0.000178
Ni-T	mg/L	0.000123	0.000139	0.000114	0.000123	0.000115	5	0.000139	0.000123	0.025		0.000133
K-T	mg/L	0.329	0.304	0.27	0.264	0.181	5	0.329	0.270			0.319
S-T	mg/L	20.7	19.3	17	12	5.6	5	20.7	14.9			20.1
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	8.09	7.78	7.4	4.6	2.99	5	8.09	6.17			7.97
Sr-T	mg/L	0.186	0.167	0.144	0.0865	0.0545	5	0.186	0.1276			0.1784
Zn-T	mg/L	0.00205	0.00093	0.00057	0.00059	0.00072	5	0.00205	0.00097	0.0075	0.033	0.0016
Al-D	mg/L	0.0168	0.00802	0.00777	0.0303	0.0417	5	0.0417	0.02092			0.03714
As-D	mg/L	0.000639	0.000552	0.000521	0.000418	0.000387	5	0.000639	0.000503			0.000604
Ba-D	mg/L	0.00603	0.00589	0.00565	0.004	0.0032	5	0.00603	0.00495			0.00597
B-D	mg/L	0.061	0.071	0.057	0.038	0.027	5	0.071	0.051			0.067
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	24.5	24.9	24	14.3	9.56	5	24.9	19.45			24.74
Cr-D	mg/L	<0.00010	0.00016	0.00011	0.00016	0.00017	5	0.00017	0.000130			0.000166
Co-D	mg/L	0.0000178	0.0000093	0.00001	0.0000227	0.0000274	5	0.0000274	0.0000174			2.55E-05
Cu-D	mg/L	0.000387	0.000408	0.000348	0.000495	0.000586	5	0.000586	0.000445	*	*	0.00055
DOC	mg/L	3.4	3.5	3.2	4.3	5.3	5	5.3	3.9			4.9
Hard-D	mg/L	74	75.5	72.4	44.7	29.4	5	75.5	59.2			74.9
Fe-D	mg/L	0.0483	0.0209	0.0178	0.0426	0.0521	5	0.0521	0.0363			0.0506
Pb-D	mg/L	0.000006	<0.0000050	0.0000787	<0.0000050	<0.0000050	5	0.0000787	0.00001844			4.96E-05
Mg-D	mg/L	3.12	3.24	3.01	2.19	1.34	5	3.24	2.58			3.19
Mn-D	mg/L	0.0102	0.00396	0.00317	0.00396	0.00335	5	0.0102	0.00493			0.0077
Mo-D	mg/L	0.000182	0.00017	0.000183	0.000139	0.000181	5	0.000183	0.000171			0.000183
Ni-D	mg/L	0.000156	0.000109	0.000118	0.000115	0.000103	5	0.000156	0.000120			0.000141
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.309	0.299	0.305	0.25	0.18	5	0.309	0.269			0.307
S-D	mg/L	19.9	18.8	18.5	11.6	5.8	5	19.9	14.9			19.5
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	7.87	7.75	7.5	4.65	2.71	5	7.87	6.10			7.82
Sr-D	mg/L	0.17	0.163	0.154	0.0804	0.053	5	0.17	0.1241			0.1672
Zn-D	mg/L	0.00115	0.00117	0.00179	0.00146	0.00191	5	0.00191	0.00150			0.00186
N-NO23	mg/L	<0.20	<0.020	<0.020	0.022	<0.020	5	<0.20	0.0304			0.0688
Notes: *Calculated guideline. Refer to Exceedance Tables.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E292118	Water Quality Guidelines										
StnName	Lower Quinsam Lake 1M											
StnCode	LQL1											
		8-Oct-25	15-Oct-25	21-Oct-25	29-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	26	25	25	16	8.7	5	26	20.1	128		25.6
Turb-F	NTU	1.5	0.4	0.51	1.5	1.5	5	1.5	1.08			1.5
Alk-T	mg/L	38	36	37	28	23	5	38	32.4			37.6
Al-T	mg/L	0.0274	0.0193	0.017	0.0953	0.0723	5	0.0953	0.0463	*		0.0861
As-T	mg/L	0.000789	0.000827	0.000846	0.000753	0.000503	5	0.000846	0.000744	0.005		0.000838
B-T	mg/L	0.053	0.048	0.046	0.031	0.022	5	0.053	0.040	1.2		0.051
Ba-T	mg/L	0.00450	0.00445	0.00438	0.00431	0.00325	5	0.00450	0.00418	1.00		0.00448
Cd-T	mg/L	0.0000062	0.0000056	<0.0000050	0.0000056	0.0000072	5	0.0000072	0.00000542			6.80E-06
Ca-T	mg/L	13.1	12.7	13	10.7	8.73	5	13.1	11.65			13.06
Cr-T	mg/L	<0.00010	0.00014	0.00013	0.00023	0.00022	5	0.00023	0.000154			0.000226
Co-T	mg/L	0.0000378	0.0000298	0.0000359	0.0000727	0.0000545	5	0.0000727	0.0000461	0.004	0.11	6.54E-05
Cu-T	mg/L	0.000648	0.000603	0.000577	0.000908	0.000821	5	0.000908	0.000711			0.000873
Fe-T	mg/L	0.100	0.111	0.129	0.19	0.108	5	0.19	0.128	*	1.0	0.166
Hard-T	mg/L	39.5	38.2	39.4	32.5	26.3	5	39.5	35.2			39.5
Pb-T	mg/L	0.0000058	0.0000067	<0.0000050	0.0000159	0.0000106	5	0.0000159	0.00000830	0.004	0.0176	1.38E-05
Mg-T	mg/L	1.64	1.57	1.68	1.4	1.08	5	1.68	1.47			1.66
Mn-T	mg/L	0.0184	0.0242	0.037	0.0279	0.00855	5	0.037	0.02321	0.737	0.8706	0.03336
P-T	mg/L	0.0071					1	0.0071	0.0071	0.015		0.0071
Mo-T	mg/L	0.000181	0.000169	0.00017	0.00014	0.000149	5	0.000181	0.000162	7.6	46.0	0.000177
Ni-T	mg/L	0.000118	0.000118	0.00011	0.000168	0.000172	5	0.000172	0.000137	0.025		0.00017
K-T	mg/L	0.293	0.258	0.267	0.266	0.184	5	0.293	0.254			0.283
S-T	mg/L	9.0	8	9.1	5.1	<3.0	5	9.1	6.54			9.06
Se-T	mg/L	0.000077	0.00007	0.00008	0.000091	0.000081	5	0.000091	0.000080	0.002		8.70E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	12.1	10.5	10.9	6.49	3.86	5	12.1	8.77			11.62
Sr-T	mg/L	0.0733	0.069	0.0685	0.0491	0.0343	5	0.0733	0.0588			0.0716
Zn-T	mg/L	0.00052	0.00041	0.00027	0.00066	0.00077	5	0.00077	0.00053	0.0075	0.033	0.00073
Al-D	mg/L	0.0128	0.0123	0.0101	0.0395	0.0399	5	0.0399	0.0229			0.0397
As-D	mg/L	0.000686	0.000711	0.000745	0.000633	0.000438	5	0.000745	0.000643			0.000731
Ba-D	mg/L	0.00421	0.00416	0.00422	0.00367	0.00296	5	0.00422	0.00384			0.00422
B-D	mg/L	0.046	0.054	0.047	0.033	0.02	5	0.054	0.040			0.051
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005	5	0.000005	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	12.7	12.8	12.8	11.1	8.49	5	12.8	11.58			12.8
Cl-D	mg/L	<1.0	<1.0	<1.0			3	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00010	0.00013	0.00012	0.0002	0.00017	5	0.0002	0.00014			0.00019
Co-D	mg/L	0.0000136	0.0000146	0.0000174	0.0000417	0.0000272	5	0.0000417	0.0000229			3.59E-05
Cu-D	mg/L	0.000602	0.000543	0.000531	0.000758	0.000721	5	0.000758	0.000631	*	*	0.000743
DOC	mg/L	3.1	3.3	2.7	4.6	4.9	5	4.9	3.7			4.8
Hard-D	mg/L	38.0	38.4	38.7	33.4	25.5	5	38.7	34.8			38.6
Fe-D	mg/L	0.0406	0.061	0.0735	0.113	0.0562	5	0.113	0.0689			0.0972
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000095	0.0000053	5	0.0000095	0.00000446			7.82E-06
Mg-D	mg/L	1.52	1.55	1.62	1.39	1.05	5	1.62	1.43			1.59
Mn-D	mg/L	0.00250	0.0109	0.0223	0.0178	0.00375	5	0.0223	0.01145			0.0205
Mo-D	mg/L	0.000199	0.000234	0.000208	0.000143	0.00016	5	0.000234	0.000189			0.000224
Ni-D	mg/L	0.000121	0.000106	0.000108	0.000171	0.000142	5	0.000171	0.000130			0.000159
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.270	0.259	0.261	0.249	0.182	5	0.270	0.244			0.266
S-D	mg/L	8.4	9	8.8	4.1	<3.0	5	9	6.36			8.92
Se-D	mg/L	0.000067	0.000075	0.000086	0.000095	0.000077	5	0.000095	0.000080			9.10E-05
Na-D	mg/L	11.9	10.7	10.4	6.27	3.55	5	11.9	8.56			11.42
Sr-D	mg/L	0.0671	0.0669	0.0677	0.0448	0.0328	5	0.0677	0.0559			0.0675
Zn-D	mg/L	0.00153	0.00122	0.00093	0.00106	0.00074	5	0.00153	0.00110			0.00141
N-NO23	mg/L		<0.020	0.054	0.027	<0.020	4	0.054	0.0252			0.0459
Chlr-a	ug/L	2.0					1	2.0	2.0			2

Notes: *Calculated guideline. Refer to Exceedance Tables.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID StnName StnCode	E292118 Lower Quinsam Lake 4M LQL4						Water Quality Guidelines					
	mg/L	8-Oct-25	15-Oct-25	21-Oct-25	29-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
		26	24	24	16	8.6	5	26	19.7	128		25.2
SO4-D	mg/L	26	24	24	16	8.6	5	26	19.7	128		25.2
Turb-F	NTU	2.4	0.84	0.95	1.6	1.43	5	2.4	1.44			2.08
Alk-T	mg/L		35	38	29	24	4	38	31.5			37.1
Al-T	mg/L	0.0277	0.0192	0.0174	0.0915	0.0786	5	0.0915	0.0469	*		0.0863
As-T	mg/L	0.000771	0.00081	0.000838	0.000718	0.000498	5	0.000838	0.000727	0.005		0.000827
B-T	mg/L	0.050	0.046	0.046	0.031	0.021	5	0.050	0.039	1.2		0.048
Ba-T	mg/L	0.00440	0.00441	0.00439	0.00434	0.00318	5	0.00441	0.00414	1.00		0.00441
Cd-T	mg/L	0.0000055	<0.0000050	<0.0000050	0.0000082	0.0000078	5	0.0000082	0.00000530			8.04E-06
Ca-T	mg/L	12.9	12.7	12.7	10.6	8.42	5	12.9	11.46			12.82
Cr-T	mg/L	0.00012	0.00013	0.00015	0.00031	0.00023	5	0.00031	0.00019			0.00028
Co-T	mg/L	0.0000409	0.0000278	0.000036	0.0000696	0.0000576	5	0.0000696	0.0000464	0.004	0.11	6.48E-05
Cu-T	mg/L	0.000655	0.000585	0.000578	0.000836	0.000818	5	0.000836	0.000694			0.000829
Fe-T	mg/L	0.101	0.114	0.135	0.192	0.125	5	0.192	0.133	*	1.0	0.169
Hard-T	mg/L	38.9	38.2	38.5	32	25.6	5	38.9	34.6			38.7
Pb-T	mg/L	0.0000075	0.0000058	0.0000052	0.000145	0.0000103	5	0.000145	0.0000087	0.004	0.0176	1.28E-05
Mg-T	mg/L	1.63	1.56	1.63	1.35	1.11	5	1.63	1.46			1.63
Mn-T	mg/L	0.0178	0.025	0.0371	0.0276	0.00912	5	0.0371	0.02332	0.737	0.8706	0.0333
P-T	mg/L									0.015		
Mo-T	mg/L	0.000156	0.000167	0.000173	0.000119	0.000149	5	0.000173	0.000153	7.6	46.0	0.000171
Ni-T	mg/L	0.000118	0.000131	0.000119	0.000197	0.000151	5	0.000197	0.000143	0.025		0.000179
K-T	mg/L	0.292	0.259	0.26	0.256	0.189	5	0.292	0.251			0.279
S-T	mg/L	8.9	8.1	8.5	5.4	3.1	5	8.9	6.8			8.7
Se-T	mg/L	0.000084	0.000081	0.00008	0.000088	0.000076	5	0.000088	0.000082	0.002		8.60E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06
Na-T	mg/L	12.1	10.3	10.6	6.43	3.84	5	12.1	8.65			11.5
Sr-T	mg/L	0.0729	0.0669	0.0669	0.0494	0.0328	5	0.0729	0.0578			0.0705
Zn-T	mg/L	0.00021	0.00024	0.00028	0.00059	0.00052	5	0.00059	0.00037	0.0075	0.033	0.00056
Al-D	mg/L	0.0137	0.0118	0.0104	0.043	0.0403	5	0.043	0.0238			0.0419
As-D	mg/L	0.000723	0.000718	0.000725	0.000625	0.000439	5	0.000725	0.000646			0.000724
Ba-D	mg/L	0.00408	0.0041	0.00423	0.00375	0.00303	5	0.00423	0.00384			0.00418
B-D	mg/L	0.047	0.054	0.046	0.033	0.02	5	0.054	0.040			0.051
Cd-D	mg/L	0.0000053	<0.0000050	<0.0000050	<0.0000050	0.0000054	5	0.0000054	0.00000364	0.000087	0.00017	5.36E-06
Ca-D	mg/L	13.0	12.7	12.9	10.9	8.42	5	13.0	11.58			12.96
Cl-D	mg/L	<1.0	<1.0	<1.0			3	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.00010	0.00014	0.00015	0.00022	0.00017	5	0.00022	0.000146			0.0002
Co-D	mg/L	0.0000147	0.0000121	0.0000194	0.0000393	0.0000291	5	0.0000393	0.0000229			3.52E-05
Cu-D	mg/L	0.000583	0.000561	0.000539	0.000776	0.000727	5	0.000776	0.000637	*	*	0.000756
DOC	mg/L		3.2	2.7	5	4.7	4	5	3.9			4.9
Hard-D	mg/L	38.6	38	39	33.2	25.4	5	39	34.8			38.8
Fe-D	mg/L	0.0442	0.0614	0.0721	0.111	0.0567	5	0.111	0.0691			0.0954
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000078	<0.0000050	5	0.0000078	0.00000356			5.68E-06
Mg-D	mg/L	1.49	1.56	1.62	1.45	1.05	5	1.62	1.43			1.6
Mn-D	mg/L	0.00189	0.011	0.0223	0.0185	0.00363	5	0.0223	0.01146			0.02078
Mo-D	mg/L	0.000176	0.000189	0.000186	0.000174	0.000158	5	0.000189	0.000177			0.000188
Ni-D	mg/L	0.000103	0.000099	0.000111	0.000163	0.000132	5	0.000163	0.000122			0.000151
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.267	0.261	0.265	0.258	0.181	5	0.267	0.246			0.266
S-D	mg/L	8.5	8.1	9.1	6.7	<3.0	5	9.1	6.78			8.86
Se-D	mg/L	0.000074	0.000078	0.000084	0.000096	0.000085	5	0.000096	0.000083			9.20E-05
Na-D	mg/L	11.4	10.7	10.5	6.54	3.54	5	11.4	8.54			11.12
Sr-D	mg/L	0.0676	0.066	0.0679	0.0466	0.0333	5	0.0679	0.0563			0.0678
Zn-D	mg/L	0.00043	0.00045	0.00045	0.00097	0.00053	5	0.00097	0.00057			0.00079
N-NO23	mg/L	<0.020	<0.020	0.04	0.032	<0.020	5	0.04	0.0204			0.0368

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID	E292118							Water Quality Guidelines				
StnName	Lower Quinsam Lake 9M											
StnCode	LQL9											
	8-Oct-25	15-Oct-25	21-Oct-25	29-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	23	23	23	16	5	23	18.6	128		23	
Turb-F	NTU	2.6	0.90	1.1	1.5	5	2.6	1.51			2.16	
Alk-T	mg/L		35	37	28	4	37	31.0			36.4	
Al-T	mg/L	0.0323	0.0198	0.0195	0.0948	5	0.0948	0.0473	*		0.0848	
As-T	mg/L	0.000832	0.000858	0.000893	0.000682	5	0.000893	0.000747	0.005		0.000879	
B-T	mg/L	0.045	0.046	0.045	0.031	5	0.046	0.038	1.2		0.046	
Ba-T	mg/L	0.00449	0.00455	0.00449	0.00444	5	0.00455	0.00421	1.00		0.00453	
Cd-T	mg/L	0.0000058	0.0000069	<0.0000050	0.0000082	5	0.0000082	0.00000620			7.96E-06	
Ca-T	mg/L	12.7	12.5	12.9	10.8	5	12.9	11.46			12.82	
Cr-T	mg/L	0.00012	0.00013	0.00015	0.00024	5	0.00024	0.00017			0.00024	
Co-T	mg/L	0.0000472	0.000043	0.0000396	0.0000795	5	0.0000795	0.0000526	0.004	0.11	6.93E-05	
Cu-T	mg/L	0.000686	0.000601	0.000541	0.00086	5	0.00086	0.000695			0.000831	
Fe-T	mg/L	0.128	0.158	0.154	0.182	5	0.182	0.146	*	1.0	0.172	
Hard-T	mg/L	38.2	37.7	38.9	32.5	5	38.9	34.5			38.6	
Pb-T	mg/L	0.0000081	0.0000079	0.0000074	0.0000107	5	0.0000107	0.0000086	0.004	0.0176	1.00E-05	
Mg-T	mg/L	1.59	1.55	1.63	1.36	5	1.63	1.44			1.61	
Mn-T	mg/L	0.0213	0.0355	0.0379	0.027	5	0.0379	0.02594	0.737	0.8706	0.03694	
P-T	mg/L								0.015			
Mo-T	mg/L	0.000187	0.000159	0.000183	0.00013	5	0.000187	0.000161	7.6	46.0	0.000185	
Ni-T	mg/L	0.000128	0.00012	0.000116	0.000228	5	0.000228	0.000152	0.025		0.000204	
K-T	mg/L	0.269	0.254	0.245	0.256	5	0.269	0.240			0.264	
S-T	mg/L	7.6	7.6	7.9	3.2	5	7.9	5.56			7.78	
Se-T	mg/L	0.000103	0.000091	0.000083	0.000089	5	0.000103	0.000091	0.002		9.80E-05	
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.00005	0.0001	2.50E-06	
Na-T	mg/L	10.2	10.1	10.1	6.27	5	10.2	8.06			10.16	
Sr-T	mg/L	0.0697	0.0664	0.0677	0.0488	5	0.0697	0.0570			0.0689	
Zn-T	mg/L	0.00017	0.00027	0.00035	0.00048	5	0.00049	0.00035	0.0075	0.033	0.00049	
Al-D	mg/L	0.0153	0.0116	0.0102	0.0411	5	0.0411	0.0233			0.04	
As-D	mg/L	0.000739	0.000762	0.000775	0.000616	5	0.000775	0.000662			0.00077	
Ba-D	mg/L	0.00419	0.00417	0.00425	0.00373	5	0.00425	0.00385			0.00423	
B-D	mg/L	0.044	0.051	0.045	0.032	5	0.051	0.038			0.049	
Cd-D	mg/L	0.0000050	<0.0000050	<0.0000050	<0.0000050	5	0.0000050	0.00000300	0.000087	0.00017	4.00E-06	
Ca-D	mg/L	12.7	12.8	12.8	10.5	5	12.8	11.41			12.8	
Cl-D	mg/L	<1.0	<1.0	<1.0		3	<1.0	0.50	150	600	0.5	
Cr-D	mg/L	<0.00010	0.00011	0.00012	0.00019	5	0.00019	0.000128			0.000182	
Co-D	mg/L	0.0000157	0.0000184	0.0000271	0.0000387	5	0.0000387	0.0000258			3.49E-05	
Cu-D	mg/L	0.000611	0.000546	0.000652	0.000754	5	0.000754	0.000655	*	*	0.000738	
DOC	mg/L		3.1	2.5	5.1	4	5.1	3.8			4.9	
Hard-D	mg/L	38.0	38.2	38.7	32	5	38.7	34.4			38.5	
Fe-D	mg/L	0.0637	0.0809	0.087	0.104	5	0.104	0.0775			0.0972	
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000057	5	0.0000057	0.00000372			5.58E-06	
Mg-D	mg/L	1.49	1.52	1.64	1.4	5	1.64	1.42			1.59	
Mn-D	mg/L	0.00547	0.0201	0.0257	0.0165	5	0.0257	0.01424			0.02346	
Mo-D	mg/L	0.000187	0.000185	0.000182	0.000139	5	0.000187	0.000169			0.000186	
Ni-D	mg/L	0.000123	0.000107	0.000121	0.000176	5	0.000176	0.000132			0.000159	
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06	
K-D	mg/L	0.250	0.253	0.262	0.25	5	0.262	0.238			0.258	
S-D	mg/L	7.5	7.1	8.2	4.4	5	8.2	5.74			7.92	
Se-D	mg/L	0.000081	0.000076	0.000085	0.000096	5	0.000096	0.000083			9.20E-05	
Na-D	mg/L	10.2	10	10	6.27	5	10.2	8.00			10.2	
Sr-D	mg/L	0.0645	0.0649	0.067	0.0457	5	0.067	0.0547			0.0662	
Zn-D	mg/L	0.00024	0.00037	0.00045	0.00057	5	0.00057	0.00042			0.00054	
N-NO23	mg/L		<0.020	0.043	0.032	4	0.043	0.0237			0.0397	

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Lakes Fall 9 Page(s)

EMS ID StnName StnCode	E292118 Lower Quinsam Lake 1MB LQLB						Water Quality Guidelines					
		8-Oct-25	15-Oct-25	21-Oct-25	29-Oct-25	4-Nov-25	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
		mg/L										
SO4-D	mg/L	23	14	12	13	8.1	5	23	14.0	128		19.4
Turb-F	NTU	3.1	7.5	14.4	1.2	1.33	5	14.4	5.51			11.64
Alk-T	mg/L		36	41	26	24	4	41	31.8			39.5
Al-T	mg/L	0.0284	0.019	0.0183	0.104	0.069	5	0.104	0.0477	*		0.09
As-T	mg/L	0.00270	0.00269	0.00381	0.000686	0.000484	5	0.00381	0.002074	0.005		0.003366
B-T	mg/L	0.031	0.036	0.033	0.027	0.022	5	0.036	0.030	1.2		0.035
Ba-T	mg/L	0.00911	0.00906	0.0141	0.00444	0.00306	5	0.0141	0.00795	1.00		0.0121
Cd-T	mg/L	0.0000115	0.0000114	0.0000096	0.0000111	0.0000075	5	0.0000115	0.0000102			1.15E-05
Ca-T	mg/L	11.2	11.6	12.7	10.3	8.52	5	12.7	10.86			12.26
Cr-T	mg/L	0.00013	0.00015	0.00018	0.00029	0.00022	5	0.00029	0.00019			0.00026
Co-T	mg/L	0.000603	0.00063	0.000974	0.0000736	0.0000534	5	0.000974	0.0004668	0.004	0.11	0.0008364
Cu-T	mg/L	0.00068	0.000551	0.000512	0.000908	0.000789	5	0.000908	0.000688			0.00086
Fe-T	mg/L	1.82	1.76	3.00	0.163	0.107	5	3	1.370	*	1.0	2.528
Hard-T	mg/L	33.6	34.7	37.9	31	25.6	5	37.9	32.6			36.6
Pb-T	mg/L	0.000022	0.0000145	0.0000134	0.0000152	0.0000099	5	0.000022	0.0000150	0.004	0.0176	1.93E-05
Mg-T	mg/L	1.35	1.38	1.51	1.27	1.06	5	1.51	1.31			1.46
Mn-T	mg/L	0.587	0.595	0.906	0.0193	0.0083	5	0.9060	0.4231	0.737	0.8706	0.7816
P-T	mg/L	0.0096					1	0.0096	0.0096	0.015		0.0096
Mo-T	mg/L	0.000249	0.000239	0.000347	0.000131	0.000143	5	0.000347	0.000222	7.6	46.0	0.000308
Ni-T	mg/L	0.00030	0.000219	0.000245	0.00019	0.000169	5	0.00030	0.000225	0.025		0.000278
K-T	mg/L	<0.25	0.217	0.238	0.247	0.174	5	0.247	0.200			0.243
S-T	mg/L	5.1	4.8	4.5	4.9	<3.0	5	5.1	4.16			5.02
Se-T	mg/L	0.000082	0.000089	0.000092	0.000104	0.000086	5	0.000104	0.000091	0.002		9.90E-05
Ag-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06
Na-T	mg/L	6.86	7.13	7.46	5.22	3.6	5	7.46	6.05			7.33
Sr-T	mg/L	0.0588	0.0588	0.0632	0.046	0.0329	5	0.0632	0.0519			0.0614
Zn-T	mg/L	0.0010	0.00039	0.00057	0.00058	0.00049	5	0.0010	0.00061	0.0075	0.033	0.00083
Al-D	mg/L	0.0130	0.0113	0.00612	0.0488	0.0381	5	0.0488	0.02346			0.04452
As-D	mg/L	0.00139	0.00144	0.00122	0.000582	0.000436	5	0.00144	0.001014	0.005		0.00142
Ba-D	mg/L	0.00751	0.00843	0.0098	0.00369	0.00285	5	0.0098	0.00646			0.00925
B-D	mg/L	0.031	0.039	0.034	0.028	0.019	5	0.039	0.030			0.037
Cd-D	mg/L	0.0000118	0.0000069	0.0000064	<0.0000050	0.0000051	5	0.0000118	0.00000654	0.000087	0.00017	9.84E-06
Ca-D	mg/L	11.0	11.9	12.2	10.2	8.21	5	12.2	10.70			12.08
Cl-D	mg/L	<1.0	<1.0	<1.0			3	<1.0	0.50	150	600	0.5
Cr-D	mg/L	0.00012	0.00013	0.00014	0.00022	0.00018	5	0.00022	0.00016			0.0002
Co-D	mg/L	0.000494	0.000671	0.000946	0.0000477	0.000027	5	0.000946	0.0004371			0.000836
Cu-D	mg/L	0.000500	0.00041	0.00028	0.000791	0.00071	5	0.000791	0.000538	*	*	0.000759
DOC	mg/L		3.2	3.2	5.1	4.5	4	5.1	4.0			4.9
Hard-D	mg/L	32.7	35.4	36.3	30.9	24.7	5	36.3	32.0			35.9
Fe-D	mg/L	0.904	0.993	0.598	0.0938	0.0553	5	0.993	0.5288			0.9574
Pb-D	mg/L	0.0000110	0.0000067	<0.0000050	<0.0000050	0.0000071	5	0.0000110	0.00000596			9.44E-06
Mg-D	mg/L	1.25	1.37	1.41	1.3	1.02	5	1.41	1.27			1.39
Mn-D	mg/L	0.524	0.642	0.88	0.0128	0.00362	5	0.8800	0.41248			0.7848
Mo-D	mg/L	0.000213	0.000257	0.000319	0.000136	0.000154	5	0.000319	0.000216			0.000294
Ni-D	mg/L	0.000232	0.000187	0.000215	0.000175	0.000121	5	0.000232	0.000186			0.000225
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
K-D	mg/L	0.216	0.221	0.234	0.237	0.173	5	0.237	0.216			0.236
S-D	mg/L	3.9	4.6	4.7	3.9	<3.0	5	4.7	3.72			4.66
Se-D	mg/L	0.000085	0.000072	0.000086	0.000097	0.000072	5	0.000097	0.000082			9.30E-05
Na-D	mg/L	6.87	7.23	6.74	5.26	3.36	5	7.23	5.89			7.09
Sr-D	mg/L	0.0547	0.0584	0.0609	0.0432	0.0316	5	0.0609	0.0498			0.0599
Zn-D	mg/L	0.00036	0.00079	0.00064	0.00051	0.00058	5	0.00079	0.00058			0.00073
N-NO23	mg/L		<0.020	0.028	0.028	<0.020	4	0.028	0.0190			0.028

Notes: *Calculated guideline. Refer to Exceedance Tables.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E217017	Water Quality Guidelines										
StnName	No Name Lake Outlet											
StnCode	NNO											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	6.91	7.2	6.91	7.83	7.46	5	7.83	7.26			7.68
Cond-F	uS/cm	27.9	49.3	48.9	64.2	45.5	5	64.2	47.2			58.2
SO4-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	128		0.5
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
TSS	mg/L	<1.0	1.2	<1.0	1.2	<1.0	5	1.2	0.78			1.2
Alk-T	mg/L	10	10	11	12	12	5	12	11.0			12
Al-T	mg/L	0.0468	0.0402	0.0423	0.0382	0.0353	5	0.0468	0.0406	*		0.045
As-T	mg/L	0.00022	0.00024	0.00023	0.00026	0.00020	5	0.00026	0.00023	0.005		0.00025
Ba-T	mg/L	0.0010	<0.0010	0.0011	0.0011	0.0010	5	0.0011	0.00094	1.00		0.0011
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	12	13	13	15	15	5	15	13.6			15
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	3.39	3.34	3.75	3.40	3.62	5	3.75	3.50			3.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00053	<0.00050	<0.00050	0.00244	<0.00050	5	0.00244	0.000744			0.001676
Hard-T	mg/L	11.5	11.2	12.7	11.9	12.4	5	12.7	11.9			12.6
Fe-T	mg/L	0.057	0.055	0.056	0.051	0.052	5	0.057	0.054	*	1.0	0.057
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.745	0.688	0.812	0.826	0.811	5	0.826	0.776			0.82
Mn-T	mg/L	0.0032	0.0031	0.0036	0.0036	0.0042	5	0.0042	0.0035	0.737	0.8706	0.004
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	<0.050	<0.050	<0.050	0.066	0.051	5	0.066	0.0384			0.06
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.02	0.942	1.06	1.06	1.09	5	1.09	1.034			1.078
Sr-T	mg/L	0.0104	0.0097	0.0114	0.0118	0.0111	5	0.0118	0.0109			0.0116
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0390	0.0365	0.0352	0.0300	0.0281	5	0.0390	0.0338			0.038
As-D	mg/L	0.000225	0.00023	0.000231	0.000238	0.00026	5	0.00026	0.000237			0.000251
Ba-D	mg/L	0.000985	0.0010	0.00101	0.00117	0.0011	5	0.00117	0.001053			0.001142
B-D	mg/L	<0.010	<0.050	<0.010	<0.010	<0.050	5	<0.050	0.0130			0.025
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000350	0.000087	0.00017	5.00E-06
Ca-D	mg/L	3.65	3.45	3.55	3.62	3.69	5	3.69	3.59			3.67
Cr-D	mg/L	0.00014	<0.0010	0.00012	0.00012	<0.0010	5	<0.0010	0.00028			0.0005
Co-D	mg/L	0.0000238	<0.00020	0.0000249	0.0000230	<0.00020	5	<0.00020	0.0000543			0.0001
Cu-D	mg/L	0.000441	0.00045	0.000477	0.000451	0.00043	5	0.000477	0.000450	*	*	0.000467
Hard-D	mg/L	12.1	11.7	12.1	12.2	12.5	5	12.5	12.1			12.4
DOC	mg/L	3.2	3.3	3.2	3.0	3.4	5	3.4	3.2			3.4
Fe-D	mg/L	0.0389	0.0389	0.0373	0.0390	0.0400	5	0.0400	0.0388			0.0396
Pb-D	mg/L	<0.0000050	<0.00020	0.0000076	0.0000060	<0.00020	5	<0.00020	0.00004322			0.0001
Mg-D	mg/L	0.735	0.748	0.774	0.765	0.791	5	0.791	0.763			0.784
Mn-D	mg/L	0.00233	0.0024	0.00266	0.00279	0.0027	5	0.00279	0.00258	0.737	0.8706	0.00275
Mo-D	mg/L	0.000117	<0.0010	0.000229	0.000148	<0.0010	5	<0.0010	0.000299			0.0005
Ni-D	mg/L	0.000048	<0.0010	0.000053	0.000060	<0.0010	5	<0.0010	0.000232			0.0005
K-D	mg/L	<0.050	<0.050	0.052	0.057	0.053	5	0.057	0.0424			0.0554
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.000040	<0.00010	<0.000040	<0.000040	<0.00010	5	<0.00010	0.0000320			5.00E-05
Na-D	mg/L	0.975	1.03	0.994	1.02	1.00	5	1.03	1.004			1.026
Sr-D	mg/L	0.0103	0.0109	0.0112	0.0118	0.0117	5	0.0118	0.0112			0.0118
Zn-D	mg/L	0.00018	0.0121	0.0138	0.00730	<0.0050	5	0.0138	0.00718			0.01312

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E219412	Water Quality Guidelines										
StnName	Long Lake Outlet											
StnCode	LLO											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.61	7.35	7.47	7.49	7.56	5	7.61	7.50			7.59
Cond-F	uS/cm	102.9	135.5	151.4	135.4	136.5	5	151.4	132.3			145.4
SO4-D	mg/L	19	22	32	33	35	5	35	28.2	128		34.2
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
TSS	mg/L	<1.0	2.0	<1.0	1.2	<1.0	5	2.0	0.94			1.68
Alk-T	mg/L	16	16	23	23	24	5	24	20.4			23.6
Al-T	mg/L	0.0432	0.0374	0.0333	0.0335	0.0267	5	0.0432	0.0348	*		0.0409
As-T	mg/L	0.00026	0.00029	0.00028	0.00035	0.00027	5	0.00035	0.00029	0.005		0.00033
Ba-T	mg/L	0.0028	0.0029	0.0034	0.0035	0.0034	5	0.0035	0.0032	1.00		0.0035
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	19	20	28	28	30	5	30	25.0			29.2
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	9.87	10.4	13.9	12.7	14.1	5	14.1	12.19			14.02
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00061	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00061	0.000322			0.000466
Hard-T	mg/L	30.7	32.0	42.7	39.6	43.0	5	43.0	37.6			42.9
Fe-T	mg/L	0.072	0.061	0.053	0.056	0.045	5	0.072	0.057	*	1.0	0.068
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.47	1.45	1.92	1.93	1.91	5	1.93	1.74			1.93
Mn-T	mg/L	0.0062	0.0065	0.0058	0.0078	0.0074	5	0.0078	0.0067	0.737	0.8706	0.0076
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005
K-T	mg/L	0.134	0.128	0.170	0.184	0.171	5	0.184	0.157			0.179
S-T	mg/L	5.4	6.4	10.2	10.2	10.4	5	10.4	8.5			10.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	1.00E-05
Na-T	mg/L	2.79	2.87	4.24	4.34	4.33	5	4.34	3.71			4.34
Sr-T	mg/L	0.0552	0.0592	0.0871	0.0935	0.0885	5	0.0935	0.0767			0.0915
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0332	0.0297	0.0270	0.0232	0.0199	5	0.0332	0.0266			0.0318
As-D	mg/L	0.000261	0.00026	0.000301	0.000320	0.00032	5	0.00032	0.000292			0.00032
Ba-D	mg/L	0.00264	0.0029	0.00357	0.00360	0.0037	5	0.0037	0.00328			0.00366
B-D	mg/L	0.020	<0.050	0.033	0.033	<0.050	5	0.033	0.0272			0.033
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.0000035	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.70	11.0	15.2	14.5	14.6	5	15.2	13			14.96
Cr-D	mg/L	0.00011	<0.0010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000242			0.0005
Co-D	mg/L	0.0000193	<0.00020	0.0000247	0.0000190	<0.00020	5	<0.00020	0.0000526			0.0001
Cu-D	mg/L	0.000401	0.00038	0.000404	0.000400	0.00038	5	0.000404	0.000393	*	*	0.000403
Hard-D	mg/L	29.9	34.0	46.0	44.1	44.8	5	46.0	39.8			45.5
DOC	mg/L	3.3	3.4	3.2	3.0	3.1	5	3.4	3.2			3.4
Fe-D	mg/L	0.0399	0.0366	0.0372	0.0328	0.0264	5	0.0399	0.0346			0.0388
Pb-D	mg/L	0.0000070	<0.00020	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.0000424			0.0001
Mg-D	mg/L	1.38	1.60	1.98	1.90	1.99	5	1.99	1.77			1.99
Mn-D	mg/L	0.00378	0.0035	0.00383	0.00287	0.0026	5	0.00383	0.00332	0.737	0.8706	0.00381
Mo-D	mg/L	0.000153	<0.0010	0.000163	0.000159	<0.0010	5	<0.0010	0.000295			0.0005
Ni-D	mg/L	0.000086	<0.0010	0.000088	0.000135	<0.0010	5	<0.0010	0.000262			0.0005
K-D	mg/L	0.122	0.139	0.179	0.184	0.179	5	0.184	0.161			0.182
S-D	mg/L	5.6	6.8	10.5	9.8	11.2	5	11.2	8.8			10.9
Se-D	mg/L	<0.000040	<0.00010	<0.000040	<0.000040	<0.00010	5	<0.00010	0.000032			5.00E-05
Na-D	mg/L	2.72	3.13	4.36	4.39	4.80	5	4.80	3.88			4.64
Sr-D	mg/L	0.0534	0.0651	0.0953	0.0917	0.0961	5	0.0961	0.0803			0.0958
Zn-D	mg/L	0.00033	0.0136	0.00208	0.00231	<0.0050	5	0.0136	0.00416			0.00916
Notes: *Calculated guideline. See Exceedance Table.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E0126402							Water Quality Guidelines				
StnName	Quinsam River at Argonaut Road											
StnCode	WA											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.38	7.27	5.95	7.63	7.59	5	7.63	7.16			7.61
Cond-F	uS/cm	49.4	68	68.6	74.8	53.9	5	74.8	62.9			72.3
SO4-D	mg/L	<1.0	<1.0	1.1	1.1	<1.0	5	1.1	0.74	128		1.1
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5
TSS	mg/L	1.2	5.2	<1.0	<1.0	<1.0	5	5.2	1.58			3.6
Alk-T	mg/L	20	20	21	21	24	5	24	21.2			22.8
Al-T	mg/L	0.0344	0.0554	0.0232	0.0280	0.0172	5	0.0554	0.0316	*		0.047
As-T	mg/L	<0.00010	0.00010	<0.00010	<0.00010	<0.00010	5	0.00010	0.00006	0.005		8.00E-05
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	1.00		0.0005
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025	1.2		0.025
Bicarb	mg/L	25	25	26	26	29	5	29	26.2			27.8
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005			5.00E-06
Ca-T	mg/L	6.99	6.59	6.79	6.61	6.54	5	6.99	6.7			6.91
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001
Cu-T	mg/L	0.00065	0.00081	0.00070	0.00061	0.00058	5	0.00081	0.00067			0.00077
Hard-T	mg/L	20.7	19.4	20.0	19.5	19.2	5	20.7	19.8			20.4
Fe-T	mg/L	0.021	0.043	0.017	0.018	<0.010	5	0.043	0.0208	*	1.0	0.0342
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.0176	0.0001
Mg-T	mg/L	0.783	0.712	0.747	0.727	0.708	5	0.783	0.735			0.769
Mn-T	mg/L	0.0013	0.0029	0.0014	0.0014	0.0013	5	0.0029	0.0017	0.737	0.8706	0.0023
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005
K-T	mg/L	0.057	0.056	0.055	0.063	0.050	5	0.063	0.056			0.061
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.5			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	1.00E-05
Na-T	mg/L	0.705	0.614	0.685	0.616	0.608	5	0.705	0.646			0.697
Sr-T	mg/L	0.0121	0.0113	0.0117	0.0121	0.0111	5	0.0121	0.0117			0.0121
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0167	0.0174	0.0175	0.0121	0.0160	5	0.0175	0.0159			0.0175
As-D	mg/L	0.000090	<0.00010	0.000104	0.000083	<0.00010	5	0.000104	0.000075			9.80E-05
Ba-D	mg/L	0.000792	<0.0010	0.000826	0.000642	<0.0010	5	0.000826	0.000652			0.000812
B-D	mg/L	<0.010	<0.050	<0.010	<0.010	<0.050	5	<0.050	0.013			0.025
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.0000035	0.000087	0.00017	5.00E-06
Ca-D	mg/L	7.04	7.14	7.49	7.14	7.02	5	7.49	7.17			7.35
Cr-D	mg/L	<0.00010	<0.0010	0.00013	0.00011	<0.0010	5	<0.0010	0.000258			0.0005
Co-D	mg/L	0.0000125	<0.00020	0.0000175	0.0000140	<0.00020	5	<0.00020	0.0000488			0.0001
Cu-D	mg/L	0.000559	0.00070	0.00104	0.000581	0.00062	5	0.00104	0.0007	*	*	0.000904
Hard-D	mg/L	20.6	21.0	22.1	21.0	20.9	5	22.1	21.1			21.7
DOC	mg/L	2.1	2.0	2.1	2.0	1.9	5	2.1	2			2.1
Fe-D	mg/L	0.0072	0.0180	0.0100	0.0063	0.0065	5	0.0180	0.0096			0.0148
Pb-D	mg/L	0.0000068	<0.00020	0.0000219	<0.0000050	<0.00020	5	<0.00020	0.00004624			0.0001
Mg-D	mg/L	0.741	0.773	0.826	0.759	0.817	5	0.826	0.783			0.822
Mn-D	mg/L	0.000497	<0.0010	0.000704	0.000563	0.0011	5	0.0011	0.000673	0.737	0.8706	0.000942
Mo-D	mg/L	0.000167	<0.0010	0.000189	0.000181	<0.0010	5	<0.0010	0.000307			0.0005
Ni-D	mg/L	0.000046	<0.0010	0.000090	0.000038	<0.0010	5	<0.0010	0.000235			0.0005
K-D	mg/L	0.054	0.060	0.197	0.061	0.058	5	0.197	0.086			0.143
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.5			1.5
Se-D	mg/L	0.000055	<0.00010	0.000066	0.000060	<0.00010	5	0.000066	0.000056			6.40E-05
Na-D	mg/L	0.642	0.669	0.772	0.649	0.668	5	0.772	0.68			0.731
Sr-D	mg/L	0.0119	0.0120	0.0122	0.0119	0.0125	5	0.0125	0.0121			0.0124
Zn-D	mg/L	0.0177	<0.0050	0.0213	0.0307	<0.0050	5	0.0307	0.01494			0.02694

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E0900504								Water Quality Guidelines				
StnName	Middle Quinsam Lake Outlet												
StnCode	WB												
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.35	7.69	7.57	7.65	7.6	5	7.69	7.57			7.67	
Cond-F	uS/cm	112.2	134.8	125.5	108.2	90.7	5	134.8	114.3			131.1	
SO4-D	mg/L	21	22	20	16	10	5	22	17.8	128		21.6	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	1.2	5	2.4	1.02			1.92	
Alk-T	mg/L	31	32	32	30	28	5	32	30.6			32	
Al-T	mg/L	0.0237	0.0241	0.0170	0.0168	0.0141	5	0.0241	0.0191	*		0.0239	
As-T	mg/L	0.00011	0.00013	0.00012	0.00012	<0.00010	5	0.00013	0.000106	0.005		0.000126	
Ba-T	mg/L	0.0019	0.0019	0.0017	0.0015	0.0012	5	0.0019	0.0016	1.00		0.0019	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025	1.2		0.025	
Bicarb	mg/L	37	39	39	36	34	5	39	37			39	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005			5.00E-06	
Ca-T	mg/L	10.7	11.2	10.5	9.15	8.80	5	11.2	10.07			11	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001	
Cu-T	mg/L	0.00056	0.00058	0.00060	0.00072	<0.00050	5	0.00072	0.000542			0.000672	
Hard-T	mg/L	32.2	33.5	31.8	27.9	26.3	5	33.5	30.3			33	
Fe-T	mg/L	0.030	0.034	0.027	0.024	0.025	5	0.034	0.028	*	1.0	0.032	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.0176	0.0001	
Mg-T	mg/L	1.36	1.33	1.33	1.24	1.05	5	1.36	1.26			1.35	
Mn-T	mg/L	0.0037	0.0036	0.0038	0.0043	0.0046	5	0.0046	0.0040	0.737	0.8706	0.0045	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005	
K-T	mg/L	0.174	0.170	0.154	0.156	0.107	5	0.174	0.152			0.172	
S-T	mg/L	6.4	7.2	6.6	5.7	3.3	5	7.2	5.8			7	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	1.00E-05	
Na-T	mg/L	8.63	9.14	8.95	7.33	4.52	5	9.14	7.71			9.06	
Sr-T	mg/L	0.0509	0.0519	0.0505	0.0454	0.0302	5	0.0519	0.0458			0.0515	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025	
Al-D	mg/L	0.0177	0.0175	0.0150	0.0139	0.0123	5	0.0177	0.0153			0.0176	
As-D	mg/L	0.000131	0.00013	0.000117	0.000124	0.00011	5	0.000131	0.000122			0.000131	
Ba-D	mg/L	0.00183	0.0019	0.00177	0.00152	0.0013	5	0.0019	0.00166			0.00187	
B-D	mg/L	0.031	<0.050	0.032	0.028	<0.050	5	0.032	0.0282			0.0316	
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.0000035	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	10.7	11.1	11.1	10.1	8.94	5	11.1	10.39			11.1	
Cr-D	mg/L	0.00010	<0.0010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.00024			0.0005	
Co-D	mg/L	0.0000144	<0.00020	0.0000128	0.0000120	<0.00020	5	<0.00020	0.0000478			0.0001	
Cu-D	mg/L	0.000516	0.00059	0.000508	0.000555	0.00054	5	0.00059	0.000542	*	*	0.000576	
Hard-D	mg/L	32.0	33.8	33.4	30.2	26.7	5	33.8	31.2			33.6	
DOC	mg/L	2.4	2.3	2.2	2.1	2.1	5	2.4	2.2			2.4	
Fe-D	mg/L	0.0190	0.0204	0.0186	0.0185	0.0181	5	0.0204	0.0189			0.0198	
Pb-D	mg/L	0.0000069	<0.00020	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00004238			0.0001	
Mg-D	mg/L	1.31	1.47	1.37	1.21	1.07	5	1.47	1.29			1.43	
Mn-D	mg/L	0.00222	0.0020	0.00204	0.00271	0.0033	5	0.0033	0.00245	0.737	0.8706	0.00306	
Mo-D	mg/L	0.000178	<0.0010	0.000177	0.000166	<0.0010	5	<0.0010	0.000304			0.0005	
Ni-D	mg/L	0.000072	<0.0010	0.000063	0.000075	<0.0010	5	<0.0010	0.000242			0.0005	
K-D	mg/L	0.163	0.186	0.165	0.148	0.106	5	0.186	0.154			0.178	
S-D	mg/L	6.5	7.9	7.0	5.4	3.4	5	7.9	6			7.5	
Se-D	mg/L	0.000045	<0.00010	0.000056	0.000042	<0.00010	5	0.000056	0.000049			5.40E-05	
Na-D	mg/L	8.54	9.75	8.91	7.14	4.84	5	9.75	7.84			9.41	
Sr-D	mg/L	0.0497	0.0554	0.0538	0.0440	0.0316	5	0.0554	0.0469			0.0548	
Zn-D	mg/L	0.0109	<0.0050	0.00186	0.00055	<0.0050	5	0.0109	0.00366			0.00754	

Notes: * Calculated guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E286930	Water Quality Guidelines										
StnName	Quinsam River Downstream 1											
StnCode	QRDS1											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.79	8.11	6.1	7.76	7.86	5	8.11	7.52			8.01
Cond-F	uS/cm	131	154.2	147.8	146.4	179.3	5	179.3	151.7			169.3
SO4-D	mg/L	25	27	27	23	37	5	37	27.8	128		33
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	1.2	5	1.2	0.64			0.92
Alk-T	mg/L	35	37	38	37	45	5	45	38.4			42.2
Al-T	mg/L	0.0408	0.0232	0.0191	0.0216	0.0194	5	0.0408	0.0248	*		0.0338
As-T	mg/L	0.00083	0.00091	0.00090	0.00098	0.00089	5	0.00098	0.0009	0.005		0.00095
Ba-T	mg/L	0.0036	0.0036	0.0036	0.0035	0.0038	5	0.0038	0.0036	1.00		0.0037
B-T	mg/L	0.051	<0.050	0.051	<0.050	0.061	5	0.061	0.0426	1.2		0.057
Bicarb	mg/L	43	46	47	45	55	5	55	47.2			51.8
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005			5.00E-06
Ca-T	mg/L	11.7	12.0	11.9	10.2	12.8	5	12.8	11.7			12.5
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001
Cu-T	mg/L	0.00066	0.00055	0.00052	0.00052	0.00054	5	0.00066	0.00056			0.00062
Hard-T	mg/L	36.2	36.5	36.3	31.7	38.9	5	38.9	35.9			37.9
Fe-T	mg/L	0.069	0.054	0.050	0.050	0.171	5	0.171	0.079	*	1.0	0.13
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.0176	0.0001
Mg-T	mg/L	1.69	1.57	1.61	1.49	1.68	5	1.69	1.61			1.69
Mn-T	mg/L	0.0070	0.0065	0.0070	0.0078	0.0213	5	0.0213	0.0099	0.737	0.8706	0.0159
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005
K-T	mg/L	0.248	0.239	0.235	0.235	0.294	5	0.294	0.25			0.276
S-T	mg/L	8.4	8.5	8.8	7.7	10.5	5	10.5	8.8			9.8
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		5.00E-05
Ag-T	mg/L	0.000040	<0.000020	<0.000020	<0.000020	<0.000020	5	0.000040	0.000016	0.00005	0.0001	2.80E-05
Na-T	mg/L	11.3	12.3	12.4	11.3	15.7	5	15.7	12.6			14.4
Sr-T	mg/L	0.0657	0.0670	0.0677	0.0635	0.0804	5	0.0804	0.0689			0.0753
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0180	0.0159	0.0133	0.0119	0.0119	5	0.0180	0.0142			0.0172
As-D	mg/L	0.000740	0.00082	0.000890	0.000912	0.00089	5	0.000912	0.00085			0.000903
Ba-D	mg/L	0.00320	0.0034	0.00366	0.00327	0.0042	5	0.0042	0.00355			0.00398
B-D	mg/L	0.044	<0.050	0.050	0.047	0.066	5	0.066	0.0464			0.0596
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.0000035	0.000087	0.00017	5.00E-06
Ca-D	mg/L	11.4	12.3	12.5	11.3	13.7	5	13.7	12.2			13.2
Cr-D	mg/L	<0.00010	<0.0010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.00023			0.0005
Co-D	mg/L	0.0000153	<0.00020	0.0000152	0.0000180	<0.00020	5	<0.00020	0.0000497			0.0001
Cu-D	mg/L	0.000469	0.00049	0.000497	0.000496	0.00050	5	0.00050	0.00049	*	*	0.000499
Hard-D	mg/L	34.6	37.8	38.0	34.3	41.6	5	41.6	37.3			40.2
DOC	mg/L	2.4	2.5	2.3	2.1	2.1	5	2.5	2.3			2.5
Fe-D	mg/L	0.0266	0.0299	0.0280	0.0294	0.105	5	0.105	0.0438			0.075
Pb-D	mg/L	<0.0000050	<0.00020	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.0000415			0.0001
Mg-D	mg/L	1.52	1.74	1.68	1.46	1.83	5	1.83	1.65			1.79
Mn-D	mg/L	0.00336	0.0041	0.00466	0.00449	0.0222	5	0.0222	0.00776	0.737	0.8706	0.01518
Mo-D	mg/L	0.000167	<0.0010	0.000200	0.000201	<0.0010	5	<0.0010	0.000314			0.0005
Ni-D	mg/L	0.000065	<0.0010	0.000074	0.000055	<0.0010	5	<0.0010	0.000239			0.0005
K-D	mg/L	0.220	0.260	0.253	0.241	0.332	5	0.332	0.261			0.303
S-D	mg/L	7.4	9.3	9.2	7.6	13.0	5	13.0	9.3			11.5
Se-D	mg/L	<0.000040	<0.00010	0.000051	<0.000040	<0.00010	5	0.000051	0.0000382			5.06E-05
Na-D	mg/L	10.5	13.1	12.8	11.3	17.8	5	17.8	13.1			15.9
Sr-D	mg/L	0.0619	0.0726	0.0737	0.0616	0.0893	5	0.0893	0.0718			0.0831
Zn-D	mg/L	0.00189	<0.0050	0.00515	0.00320	<0.0050	5	0.00515	0.00305			0.00437

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E292113								Water Quality Guidelines			
StnName	7 South Quinsam River											
StnCode	75QR											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	28-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.92	7.61		7.58	7.66	4	7.92	7.69			7.84
Cond-F	uS/cm	121.5	140.9		137.6	175.3	4	175.3	143.8			165
SO4-D	mg/L	22	26	26	22	35	5	35	26.2	128		31.4
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5
TSS	mg/L	1.2	<1.0	<1.0	1.2	<1.0	5	1.2	0.78			1.2
Alk-T	mg/L	33	36	37	37	45	5	45	37.6			41.8
Al-T	mg/L	0.0362	0.0288	0.0264	0.0250	0.0255	5	0.0362	0.0284	*		0.0332
As-T	mg/L	0.00070	0.00081	0.00081	0.00086	0.00095	5	0.00095	0.00083	0.005		0.00091
Ba-T	mg/L	0.0033	0.0035	0.0035	0.0033	0.0044	5	0.0044	0.0036	1.00		0.004
B-T	mg/L	0.053	<0.050	0.061	0.051	0.069	5	0.069	0.0518	1.2		0.0658
Bicarb	mg/L	40	44	46	46	54	5	54	46			50.8
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005			5.00E-06
Ca-T	mg/L	10.8	11.5	11.8	9.43	14.2	5	14.2	11.55			13.24
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001
Cu-T	mg/L	0.00056	0.00053	0.00051	0.00053	0.00070	5	0.00070	0.00057			0.00064
Hard-T	mg/L	33.5	35.0	36.3	29.4	43.0	5	43.0	35.4			40.3
Fe-T	mg/L	0.087	0.093	0.086	0.082	0.207	5	0.207	0.111	*	1.0	0.161
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.0176	0.0001
Mg-T	mg/L	1.59	1.52	1.65	1.41	1.83	5	1.83	1.6			1.76
Mn-T	mg/L	0.0069	0.0071	0.0072	0.0072	0.0158	5	0.0158	0.0088	0.737	0.8706	0.0124
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005
K-T	mg/L	0.226	0.226	0.235	0.217	0.330	5	0.330	0.247			0.292
S-T	mg/L	7.2	7.8	8.0	6.9	11.4	5	11.4	8.3			10
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	1.00E-05
Na-T	mg/L	9.69	11.5	12.0	10.3	17.4	5	17.4	12.18			15.24
Sr-T	mg/L	0.0582	0.0620	0.0661	0.0580	0.0895	5	0.0895	0.0668			0.0801
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0208	0.0168	0.0159	0.0117	0.0106	5	0.0208	0.0152			0.0192
As-D	mg/L	0.000661	0.00077	0.000806	0.000808	0.00082	5	0.00082	0.000773			0.000815
Ba-D	mg/L	0.00316	0.0037	0.00362	0.00324	0.0041	5	0.0041	0.00356			0.00394
B-D	mg/L	0.041	<0.050	0.049	0.046	0.065	5	0.065	0.0452			0.0586
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.0000035	0.000087	0.00017	5.00E-06
Ca-D	mg/L	11.5	11.9	11.9	11.3	13.9	5	13.9	12.1			13.1
Cr-D	mg/L	<0.00010	<0.0010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.00023			0.0005
Co-D	mg/L	0.0000248	<0.00020	0.0000235	0.0000240	<0.00020	5	<0.00020	0.0000545			0.0001
Cu-D	mg/L	0.000476	0.00051	0.000503	0.000613	0.00048	5	0.000613	0.000516	*	*	0.000572
Hard-D	mg/L	34.9	36.8	36.4	34.3	42.1	5	42.1	36.9			40
DOC	mg/L	2.6	2.3	2.3	2.1	2.0	5	2.6	2.3			2.5
Fe-D	mg/L	0.0537	0.0556	0.0528	0.0562	0.120	5	0.120	0.0677			0.0945
Pb-D	mg/L	0.0000089	<0.00020	0.0000056	<0.0000050	<0.00020	5	<0.00020	0.0000434			0.0001
Mg-D	mg/L	1.52	1.70	1.65	1.49	1.78	5	1.78	1.63			1.75
Mn-D	mg/L	0.00489	0.0057	0.00593	0.00570	0.0135	5	0.0135	0.00714	0.737	0.8706	0.01047
Mo-D	mg/L	0.000164	<0.0010	0.000197	0.000177	<0.0010	5	<0.0010	0.000308			0.0005
Ni-D	mg/L	0.000077	<0.0010	0.000071	0.000090	<0.0010	5	<0.0010	0.000248			0.0005
K-D	mg/L	0.207	0.249	0.245	0.226	0.312	5	0.312	0.248			0.287
S-D	mg/L	7.0	7.8	8.2	6.4	11.5	5	11.5	8.2			10.2
Se-D	mg/L	0.000042	<0.00010	0.000051	0.000040	<0.00010	5	0.000051	0.000047			5.10E-05
Na-D	mg/L	9.53	12.4	12.2	10.8	16.7	5	16.7	12.33			14.98
Sr-D	mg/L	0.0587	0.0685	0.0694	0.0605	0.0853	5	0.0853	0.0685			0.0789
Zn-D	mg/L	0.00027	0.0243	0.0159	0.00157	0.0229	5	0.0243	0.01299			0.02374

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Spring Rivers 7 Page(s)

EMS ID	E299256	Water Quality Guidelines										
StnName	Iron River & Quinsam River											
StnCode	IRQR											
Date	Unit	2-Apr-25	7-Apr-25	14-Apr-25	22-Apr-25	29-Apr-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	8.2	7.5	7.58	7.47	7.97	5	8.2	7.74			8.11
Cond-F	uS/cm	96.3	99.4	124.4	133.1	131.4	5	133.1	116.9			132.4
SO4-D	mg/L	14	15	17	15	21	5	21	16.4	128		19.4
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5
TSS	mg/L	2.8	<1.0	<1.0	2.0	<1.0	5	2.8	1.26			2.48
Alk-T	mg/L	29	32	33	34	36	5	36	32.8			35.2
Al-T	mg/L	0.0471	0.0451	0.0357	0.0323	0.0392	5	0.0471	0.0399	*		0.0463
As-T	mg/L	0.00072	0.00077	0.00087	0.00092	0.00091	5	0.00092	0.00084	0.005		0.00092
Ba-T	mg/L	0.0035	0.0037	0.0038	0.0034	0.0039	5	0.0039	0.0037	1.00		0.0039
B-T	mg/L	<0.050	<0.050	0.052	<0.050	<0.050	5	0.052	0.0304	1.2		0.0412
Bicarb	mg/L	36	39	40	41	44	5	44	40			42.8
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005			5.00E-06
Ca-T	mg/L	9.63	10.6	11.2	9.78	11.5	5	11.5	10.54			11.38
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001
Cu-T	mg/L	0.00065	0.00069	0.00062	0.00068	0.00077	5	0.00077	0.00068			0.00074
Hard-T	mg/L	29.0	31.0	33.6	29.4	34.1	5	34.1	31.4			33.9
Fe-T	mg/L	0.068	0.068	0.068	0.068	0.142	5	0.142	0.083	*	1.0	0.112
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.0176	0.0001
Mg-T	mg/L	1.20	1.13	1.39	1.20	1.28	5	1.39	1.24			1.35
Mn-T	mg/L	0.0043	0.0044	0.0053	0.0053	0.0095	5	0.0095	0.0058	0.737	0.8706	0.0078
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	7.6	46.0	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025		0.0005
K-T	mg/L	0.182	0.174	0.213	0.191	0.230	5	0.230	0.198			0.223
S-T	mg/L	4.6	4.2	5.7	4.6	6.5	5	6.5	5.1			6.2
Se-T	mg/L	0.00011	0.00010	<0.00010	<0.00010	<0.00010	5	0.00011	0.000072	0.002		0.000106
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.000001	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.97	6.15	8.53	7.39	10.2	5	10.2	7.65			9.53
Sr-T	mg/L	0.0463	0.0465	0.0555	0.0506	0.0636	5	0.0636	0.0525			0.0604
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0341	0.0343	0.0239	0.0203	0.0258	5	0.0343	0.0277			0.0342
As-D	mg/L	0.000692	0.00077	0.000878	0.000840	0.00072	5	0.000878	0.00078			0.000863
Ba-D	mg/L	0.00355	0.0036	0.00376	0.00357	0.0037	5	0.00376	0.00364			0.00374
B-D	mg/L	0.026	<0.050	0.034	0.034	<0.050	5	0.034	0.0288			0.034
Cd-D	mg/L	<0.0000050	<0.000010	0.0000057	<0.0000050	<0.000010	5	0.0000057	0.00000414	0.000087	0.00017	5.42E-06
Ca-D	mg/L	9.94	10.8	11.3	10.7	11.4	5	11.4	10.83			11.36
Cr-D	mg/L	0.00010	<0.0010	0.00012	0.00014	<0.0010	5	<0.0010	0.00027			0.0005
Co-D	mg/L	0.0000224	<0.00020	0.0000214	0.0000260	<0.00020	5	<0.00020	0.000054			0.0001
Cu-D	mg/L	0.000528	0.00059	0.000566	0.000603	0.00062	5	0.00062	0.000581	*	*	0.000613
Hard-D	mg/L	29.7	31.9	33.9	31.9	33.5	5	33.9	32.2			33.7
DOC	mg/L	3.3	3.0	2.8	2.5	2.8	5	3.3	2.9			3.2
Fe-D	mg/L	0.0416	0.0409	0.0411	0.0441	0.0848	5	0.0848	0.0505			0.0685
Pb-D	mg/L	0.0000061	<0.00020	0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00004272			0.0001
Mg-D	mg/L	1.18	1.21	1.36	1.25	1.26	5	1.36	1.25			1.32
Mn-D	mg/L	0.00310	0.0033	0.00393	0.00427	0.0080	5	0.0080	0.00452	0.737	0.8706	0.00651
Mo-D	mg/L	0.000150	<0.0010	0.000176	0.000183	<0.0010	5	<0.0010	0.000302			0.0005
Ni-D	mg/L	0.000100	<0.0010	0.000098	0.000141	<0.0010	5	<0.0010	0.000268			0.0005
K-D	mg/L	0.174	0.201	0.208	0.196	0.227	5	0.227	0.201			0.219
S-D	mg/L	3.8	5.2	6.0	4.8	6.1	5	6.1	5.2			6.1
Se-D	mg/L	0.000093	<0.00010	0.000109	0.000098	<0.00010	5	0.000109	0.000080			0.000105
Na-D	mg/L	6.00	7.11	8.19	7.70	9.08	5	9.08	7.62			8.72
Sr-D	mg/L	0.0474	0.0518	0.0572	0.0515	0.0590	5	0.0590	0.0534			0.0583
Zn-D	mg/L	0.00580	<0.0050	0.0115	0.0255	0.0288	5	0.0288	0.01482			0.02748

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

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EMS ID	E217017									Water Quality Guidelines			
StnName	No Name Lake Outlet												
StnCode	NNO												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.38	7.71	7.46	7.57	7.27	5	7.71	7.48			7.65	
Cond-F	uS/cm	37.5	46.9	45.8	77.3	37.1	5	77.3	48.9			65.1	
SO4-D	mg/L	<1.0	1.0	1.2	1.1	<1.0	5	1.2	0.86	128	128	1.16	
TSS	mg/L	1.2	<1.0	2.0	<1.0	1.2	5	2.0	1.08			1.68	
Alk-T	mg/L	15	15	15	16	16	5	16	15.4			16	
Al-T	mg/L	0.0166	0.0174	0.0137	0.013	0.0234	5	0.0234	0.0168	*		0.021	
As-T	mg/L	0.000335	0.000357	0.000362	0.000369	0.00040	5	0.00040	0.000365	0.005		0.000388	
Ba-T	mg/L	0.000972	0.00100	0.000975	0.00116	0.0014	5	0.0014	0.001101	1.00		0.001304	
B-T	mg/L	0.012	0.011	0.013	0.012	<0.050	5	<0.050	0.0146	1.2		0.0202	
Bicarb	mg/L	18	18	18	19	19	5	19	18.4			19	
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06	
Ca-T	mg/L	4.23	4.76	4.58	4.75	4.96	5	4.96	4.66			4.88	
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	0.0001	<0.0010	5	<0.0010	0.000150			0.00034	
Co-T	mg/L	0.0000210	0.0000197	0.0000195	0.0000195	<0.00020	5	<0.00020	0.0000359	0.004	0.11	6.84E-05	
Cu-T	mg/L	0.000415	0.000387	0.000382	0.000373	<0.00050	5	0.000415	0.000361			0.000404	
Hard-T	mg/L	14.2	16.0	15.0	15.9	16.8	5	16.8	15.6			16.5	
Fe-T	mg/L	0.0679	0.0706	0.0706	0.0825	0.124	5	0.124	0.0831		1.0	0.1074	
Pb-T	mg/L	0.0000060	0.0000110	<0.0000050	0.0000061	<0.00020	5	<0.00020	0.00002512	0.004	0.0176	6.44E-05	
Mg-T	mg/L	0.881	1.00	0.869	0.978	1.06	5	1.06	0.958			1.036	
Mn-T	mg/L	0.00595	0.00639	0.00736	0.00912	0.0330	5	0.0330	0.01236	0.737	0.8706	0.02345	
Mo-T	mg/L	0.000151	0.000142	0.000149		<0.0010	4	<0.0010	0.000236	7.6	46.0	0.000395	
Ni-T	mg/L	0.000062	0.000062	0.000094	0.00006	<0.0010	5	<0.0010	0.000156	0.025		0.000338	
K-T	mg/L	<0.050	<0.050	0.050	0.053	0.052	5	0.053	0.0410			0.0526	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	0.000083	<0.000040	<0.000040	<0.000040	<0.00010	5	0.000083	0.0000386	0.002		6.98E-05	
Ag-T	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000020	5	<0.000020	0.00000400	0.00005	0.0001	7.00E-06	
Na-T	mg/L	1.15	1.24	1.11	1.2	1.23	5	1.24	1.19			1.24	
Sr-T	mg/L	0.0129	0.0138	0.0147	0.0148	0.0152	5	0.0152	0.0143			0.015	
Zn-T	mg/L	0.00017	0.00017	0.00025	0.00034	<0.0050	5	<0.0050	0.00069	0.0075	0.033	0.00164	
Al-D	mg/L	0.0150	0.0140	0.0106	0.00958	0.0093	5	0.0150	0.01170			0.0146	
As-D	mg/L	0.000352	0.000345	0.000354	0.000364	0.00035	5	0.000364	0.000353			0.00036	
Ba-D	mg/L	0.000990	0.00103	0.000994	0.00104	0.0012	5	0.0012	0.001051			0.001136	
B-D	mg/L	0.013	0.017	0.013	0.013	<0.050	5	<0.050	0.0162			0.0218	
Cd-D	mg/L	0.000060	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	0.0000060	0.00000370	0.000087	0.00017	5.60E-06	
Ca-D	mg/L	4.40	4.60	4.54	4.65	5.01	5	5.01	4.64			4.87	
Cr-D	mg/L	0.00011	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000152			0.000344	
Co-D	mg/L	0.0000206	0.0000141	0.0000190	0.0000143	<0.00020	5	<0.00020	0.0000336			6.82E-05	
Cu-D	mg/L	0.000426	0.000440	0.000401	0.000365	0.00034	5	0.000440	0.000394	*	*	0.000434	
Hard-D	mg/L	14.7	15.4	14.9	15.6	16.9	5	16.9	15.5			16.4	
DOC	mg/L	3.4	3.3	3.1	3.1	2.7	5	3.4	3.1			3.4	
Fe-D	mg/L	0.0676	0.0568	0.0535	0.0618	0.0593	5	0.0676	0.0598		0.35	0.0653	
Pb-D	mg/L	0.0000106	0.0000076	0.0000060	0.0000057	<0.00020	5	<0.00020	0.0000260			6.42E-05	
Mg-D	mg/L	0.887	0.939	0.868	0.96	1.07	5	1.07	0.945			1.026	
Mn-D	mg/L	0.00374	0.00375	0.00460	0.00662	0.0061	5	0.00662	0.00496	0.737	0.8706	0.00641	
Mo-D	mg/L	0.000259	0.000242	0.000510	0.000398	<0.0010	5	0.000510	0.000382			0.000506	
Ni-D	mg/L	0.000075	0.000088	0.000057	0.000034	<0.0010	5	<0.0010	0.000151			0.000335	
K-D	mg/L	0.053	0.058	<0.050	<0.050	0.054	5	0.058	0.0430			0.0564	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	0.000138	<0.000040	<0.000040	<0.000040	<0.00010	5	0.000138	0.0000496			0.0001028	
Na-D	mg/L	1.13	1.18	1.12	1.21	1.26	5	1.26	1.18			1.24	
Sr-D	mg/L	0.0132	0.0138	0.0140	0.0142	0.0152	5	0.0152	0.0141			0.0148	
Zn-D	mg/L	0.00248	0.00188	0.00173	0.00294	<0.0050	5	0.00294	0.00231			0.00276	
Notes: *Calculated guideline. See Exceedance Table.													
Bold indicates factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

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EMS ID	E219412	Water Quality Guidelines										
StnName	Long Lake Outlet											
StnCode	LLO											
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.48	7.34	6.86	7.5	7.17	5	7.5	7.27			7.49
Cond-F	uS/cm	172.4	167.2	191	175.7	178.8	5	191	177.0			186.1
SO4-D	mg/L	45	44	45	47	47	5	47	45.6	128	128	47
TSS	mg/L	1.2	1.2	1.2	<1.0	<1.0	5	1.2	0.92			1.2
Alk-T	mg/L	30	30	32	32	32	5	32	31.2			32
Al-T	mg/L	0.0160	0.0171	0.0131	0.0165	0.0102	5	0.0171	0.0146	*		0.0169
As-T	mg/L	0.000499	0.000524	0.000503	0.00053	0.00043	5	0.00053	0.000497	0.005		0.000528
Ba-T	mg/L	0.00447	0.00465	0.00475	0.00485	0.0050	5	0.0050	0.00474	1.00		0.00494
B-T	mg/L	0.048	0.052	0.050	0.042	0.053	5	0.053	0.049	1.2		0.053
Bicarb	mg/L	36	37	39	39	39	5	39	38.0			39
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06
Ca-T	mg/L	18.5	21.8	18.1	19.2	20.6	5	21.8	19.6			21.3
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	0.00027	<0.0010	5	<0.0010	0.000184			0.000408
Co-T	mg/L	0.000230	0.0000218	0.000022	0.000026	<0.00020	5	<0.00020	0.0000386	0.004	0.11	7.04E-05
Cu-T	mg/L	0.000353	0.000346	0.00044	0.00053	<0.00050	5	0.00053	0.000384			0.000494
Hard-T	mg/L	56.8	65.4	54.6	57.8	63.0	5	65.4	59.5			64.4
Fe-T	mg/L	0.0482	0.0523	0.0426	0.136	0.024	5	0.136	0.0606		1.0	0.1025
Pb-T	mg/L	0.0000060	0.0000110	<0.000020	<0.000020	<0.00020	5	<0.00020	0.0000274	0.004	0.0176	6.44E-05
Mg-T	mg/L	2.60	2.65	2.27	2.35	2.78	5	2.78	2.53			2.73
Mn-T	mg/L	0.0108	0.0112	0.00952	0.00833	0.0070	5	0.0112	0.00937	0.737	0.8706	0.01104
Mo-T	mg/L	0.000196	0.000175	0.000185	0.000196	<0.0010	5	<0.0010	0.000250	7.6	46.0	0.000378
Ni-T	mg/L	0.000093	0.000086	0.00015	0.00019	<0.0010	5	<0.0010	0.000204	0.025		0.000376
K-T	mg/L	0.213	0.208	<0.25	<0.25	0.231	5	0.231	0.180			0.224
S-T	mg/L	12.5	14.5	13.0	13.2	15.2	5	15.2	13.7			14.9
Se-T	mg/L	0.000096	<0.000040	<0.000040	<0.000040	<0.00010	5	0.000096	0.0000412	0.002		7.76E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.000020	5	<0.000020	0.00000500	0.00005	0.0001	8.00E-06
Na-T	mg/L	6.19	6.52	5.45	5.74	6.51	5	6.52	6.08			6.52
Sr-T	mg/L	0.118	0.122	0.121	0.117	0.127	5	0.127	0.121			0.125
Zn-T	mg/L	0.00034	0.00026	0.0012	0.0016	<0.0050	5	<0.0050	0.00118	0.0075	0.033	0.00214
Al-D	mg/L	0.0110	0.00784	0.00677	0.0054	0.0043	5	0.0110	0.00706			0.00974
As-D	mg/L	0.000515	0.000482	0.000503	0.000502	0.00046	5	0.000515	0.000492			0.00051
Ba-D	mg/L	0.00461	0.00472	0.00476	0.00518	0.0052	5	0.0052	0.00489			0.00519
B-D	mg/L	0.048	0.058	0.052	0.052	0.055	5	0.058	0.053			0.057
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06
Ca-D	mg/L	20.0	20.0	19.4	20.5	22.3	5	22.3	20.4			21.6
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000140			0.00032
Co-D	mg/L	0.0000126	0.0000090	0.0000097	0.0000128	<0.00020	5	<0.00020	0.0000288			6.51E-05
Cu-D	mg/L	0.000330	0.000339	0.000374	0.000312	0.00029	5	0.000374	0.000329	*	*	0.00036
Hard-D	mg/L	60.0	60.3	58.5	62.1	67.6	5	67.6	61.7			65.4
DOC	mg/L	3.1	3.1	2.8	2.6	2.3	5	3.1	2.8			3.1
Fe-D	mg/L	0.0299	0.0254	0.0250	0.0175	0.0061	5	0.0299	0.0208		0.35	0.0281
Pb-D	mg/L	0.0000070	<0.0000050	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00002290			6.28E-05
Mg-D	mg/L	2.41	2.54	2.43	2.64	2.89	5	2.89	2.58			2.79
Mn-D	mg/L	0.00212	0.00165	0.00181	0.00209	0.0026	5	0.0026	0.00205	0.737	0.8706	0.00241
Mo-D	mg/L	0.000273	0.000228	0.000293	0.000231	<0.0010	5	<0.0010	0.000305			0.000417
Ni-D	mg/L	0.000091	0.000094	0.000106	0.000065	<0.0010	5	<0.0010	0.000171			0.000342
K-D	mg/L	0.224	0.221	0.216	0.239	0.255	5	0.255	0.231			0.249
S-D	mg/L	14.7	14.5	14.0	14.5	16.7	5	16.7	14.9			15.9
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.00010	5	<0.00010	0.0000260			3.80E-05
Na-D	mg/L	6.05	6.32	5.92	6.49	6.90	5	6.90	6.34			6.74
Sr-D	mg/L	0.125	0.124	0.130	0.132	0.131	5	0.132	0.128			0.132
Zn-D	mg/L	0.00251	0.00086	0.00094	0.00098	<0.0050	5	0.00251	0.00156			0.00251

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

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EMS ID	E0126402									Water Quality Guidelines			
StnName	Quinsam River at Argonaut Road												
StnCode	WA												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.52	7.27	7.6	7.87	7.54	5	7.87	7.56			7.76	
Cond-F	uS/cm	50.9	51.6	52.3	47.7	50.2	5	52.3	50.5			52	
SO4-D	mg/L	<1.0	1.2	1.2	1.1	1.2	5	1.2	1.04	128	128	1.2	
TSS	mg/L	1.2	1.2	1.2	<1.0	<1.0	5	1.2	0.92			1.2	
Alk-T	mg/L	24	23	23	23	23	5	24	23.2			23.6	
Al-T	mg/L	0.0253	0.0211	0.0180	0.0164	0.0156	5	0.0253	0.0193	*		0.0236	
As-T	mg/L	0.000097	0.000125	0.000131	0.000121	0.00012	5	0.000131	0.000119	0.005		0.000129	
Ba-T	mg/L	0.000737	0.000716	0.000671	0.000634	<0.0010	5	0.000737	0.000652	1.00		0.000729	
B-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.050	5	<0.050	0.0090	1.2		0.017	
Bicarb	mg/L	29	29	29	28	28	5	29	28.6			29	
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06	
Ca-T	mg/L	6.69	8.20	7.38	7.7	7.31	5	8.20	7.46			8	
Cr-T	mg/L	0.00012	<0.00010	<0.00010	0.00015	<0.0010	5	<0.0010	0.000174			0.00036	
Co-T	mg/L	0.000018	0.0000103	0.0000121	0.0000068	<0.00020	5	<0.00020	0.0000294	0.004	0.11	6.72E-05	
Cu-T	mg/L	0.00058	0.000557	0.000553	0.000515	0.00055	5	0.00058	0.000551			0.000571	
Hard-T	mg/L	19.7	24.1	21.4	22.6	21.5	5	24.1	21.9			23.5	
Fe-T	mg/L	0.0385	0.0171	0.0212	0.0174	0.025	5	0.0385	0.0238		1.0	0.0331	
Pb-T	mg/L	<0.000020	0.0000107	0.0000053	<0.0000050	<0.00020	5	<0.00020	0.00002570	0.004	0.0176	6.43E-05	
Mg-T	mg/L	0.73	0.878	0.733	0.808	0.779	5	0.878	0.786			0.85	
Mn-T	mg/L	0.00319	0.00193	0.00225	0.00206	0.0019	5	0.00319	0.00227	0.737	0.8706	0.00281	
Mo-T	mg/L	0.000154	0.000181	0.000177	<0.0010	<0.0010	4	<0.0010	0.000253	7.6	46.0	0.000404	
Ni-T	mg/L	<0.00010	0.000049	0.000043	0.000039	<0.0010	5	<0.0010	0.000136	0.025		0.00032	
K-T	mg/L	<0.25	<0.050	0.050	<0.050	<0.050	5	<0.25	0.0500			0.095	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	0.000070	0.000058	0.000057	0.00006	<0.00010	5	0.000070	0.000059	0.002		6.60E-05	
Ag-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.000020	5	<0.000020	0.00000450	0.00005	0.0001	8.00E-06	
Na-T	mg/L	0.57	0.687	0.598	0.651	0.644	5	0.687	0.630			0.673	
Sr-T	mg/L	0.0108	0.0125	0.0130	0.0124	0.0118	5	0.0130	0.0121			0.0128	
Zn-T	mg/L	0.0011	0.00032	0.00013	0.00021	<0.0050	5	<0.0050	0.00085	0.0075	0.033	0.00194	
Al-D	mg/L	0.0342	0.0184	0.0136	0.0137	0.0131	5	0.0342	0.0186			0.0279	
As-D	mg/L	0.000134	0.000096	0.000134	0.000114	0.00013	5	0.000134	0.000122			0.000134	
Ba-D	mg/L	0.000918	0.000637	0.000681	0.000633	<0.0010	5	0.000918	0.000674			0.000823	
B-D	mg/L	<0.010	0.010	<0.010	<0.010	<0.050	5	<0.050	0.0100			0.019	
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06	
Ca-D	mg/L	7.52	7.40	7.35	7.62	7.62	5	7.62	7.50			7.62	
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.00015	<0.0010	5	<0.0010	0.000160			0.00036	
Co-D	mg/L	0.0000202	0.0000118	0.0000093	0.0000052	<0.00020	5	<0.00020	0.0000293			6.81E-05	
Cu-D	mg/L	0.000588	0.000580	0.000551	0.000518	0.00052	5	0.000588	0.000551	*	*	0.000585	
Hard-D	mg/L	21.8	21.8	21.3	22.4	22.3	5	22.4	21.9			22.4	
DOC	mg/L	2.0	1.9	1.8	2.1	1.9	5	2.1	1.9			2.1	
Fe-D	mg/L	0.0304	0.0105	0.0124	0.0124	0.0173	5	0.0304	0.0166		0.35	0.0252	
Pb-D	mg/L	0.0000115	<0.0000050	0.0000058	<0.0000050	<0.00020	5	<0.00020	0.00002446			6.46E-05	
Mg-D	mg/L	0.729	0.792	0.723	0.826	0.789	5	0.826	0.772			0.812	
Mn-D	mg/L	0.00252	0.00109	0.00115	0.00119	0.0013	5	0.00252	0.00145	0.737	0.8706	0.00203	
Mo-D	mg/L	0.000176	0.000230	0.000266	0.000221	<0.0010	5	<0.0010	0.000279			0.000406	
Ni-D	mg/L	0.000049	0.000043	0.000061	0.000027	<0.00060	5	<0.00060	0.000096			0.000204	
K-D	mg/L	<0.050	0.052	0.050	<0.050	0.055	5	0.055	0.0414			0.0538	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	0.000062	0.000061	0.000057	0.000053	<0.00010	5	0.000062	0.000057			6.20E-05	
Na-D	mg/L	0.590	0.639	0.588	0.642	0.662	5	0.662	0.624			0.654	
Sr-D	mg/L	0.0121	0.0121	0.0122	0.0127	0.0122	5	0.0127	0.0123			0.0125	
Zn-D	mg/L	0.00086	0.00256	0.00183	0.00056	<0.0030	5	0.00256	0.00146			0.00227	
Notes: * Calculated guideline. See Exceedance Table.													
Bold indicates factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

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EMS ID	E0900504										Water Quality Guidelines			
StnName	Middle Quinsam Lake Outlet													
StnCode	WB													
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile		
pH-F	pH Units	7.68	8.11	7.98	7.98	8.09	5	8.11	7.97			8.1		
Cond-F	uS/cm	159.3	175.2	205	206	219	5	219	192.9			213.8		
SO4-D	mg/L	35	41	46	50	51	5	51	44.6	128	128	50.6		
TSS	mg/L	1.2	<1.0	2.4	<1.0	<1.0	5	2.4	1.02			1.92		
Alk-T	mg/L	35	38	38	40	40	5	40	38.2			40		
Al-T	mg/L	0.0171	0.0129	0.0129	0.0127	0.0127	5	0.0171	0.0137	*		0.0154		
As-T	mg/L	0.000180	0.000178	0.000184	0.00018	0.00018	5	0.000184	0.000180	0.005		0.000182		
Ba-T	mg/L	0.00197	0.00223	0.00231	0.00234	0.0023	5	0.00234	0.00223	1.00		0.00233		
B-T	mg/L	0.042	0.052	0.054	0.055	0.064	5	0.064	0.053	1.2		0.06		
Bicarb	mg/L	43	46	46	48	49	5	49	46.4			48.6		
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06		
Ca-T	mg/L	12.7	15.8	15.2	16.7	16.4	5	16.7	15.4			16.6		
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000140			0.00032		
Co-T	mg/L	0.0000190	0.0000165	0.0000148	0.0000109	<0.00020	5	<0.00020	0.0000322	0.004	0.11	6.76E-05		
Cu-T	mg/L	0.000525	0.000493	0.000485	0.000496	<0.00050	5	0.000525	0.000450			0.000513		
Hard-T	mg/L	38.4	47.5	45.5	50.3	49.8	5	50.3	46.3			50.1		
Fe-T	mg/L	0.0470	0.0399	0.0365	0.0368	0.037	5	0.0470	0.0394		1.0	0.0442		
Pb-T	mg/L	0.0000050	0.0000087	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00002374	0.004	0.0176	6.35E-05		
Mg-T	mg/L	1.61	1.96	1.84	2.11	2.15	5	2.15	1.93			2.13		
Mn-T	mg/L	0.0111	0.0117	0.0106	0.0109	0.0094	5	0.0117	0.0107	0.737	0.8706	0.0115		
Mo-T	mg/L	0.000189	0.000160	0.000187		<0.0010	4	<0.0010	0.000259	7.6	46.0	0.000407		
Ni-T	mg/L	0.000105	0.000095	0.000091	0.000068	<0.0010	5	<0.0010	0.000172	0.025		0.000342		
K-T	mg/L	0.204	0.239	0.267	0.296	0.320	5	0.320	0.265			0.31		
S-T	mg/L	10.8	13.5	14.9	16.5	17.2	5	17.2	14.6			16.9		
Se-T	mg/L	0.000081	0.000058	0.000051	0.000049	<0.00010	5	0.000081	0.000058	0.002		7.20E-05		
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000020	5	<0.000020	0.00000400	0.00005	0.0001	7.00E-06		
Na-T	mg/L	12.5	15.8	15.4	18.3	19.7	5	19.7	16.3			19.1		
Sr-T	mg/L	0.0699	0.0862	0.100	0.105	0.105	5	0.105	0.0932			0.105		
Zn-T	mg/L	0.00024	0.00016	0.00019	0.00042	<0.0050	5	<0.0050	0.00070	0.0075	0.033	0.00167		
Al-D	mg/L	0.0121	0.0117	0.0112	0.011	0.0133	5	0.0133	0.0119			0.0128		
As-D	mg/L	0.000170	0.000156	0.000170	0.000165	0.00019	5	0.00019	0.000170			0.000182		
Ba-D	mg/L	0.00205	0.00231	0.00227	0.00227	0.0023	5	0.00231	0.00224			0.00231		
B-D	mg/L	0.041	0.058	0.055	0.058	0.065	5	0.065	0.055			0.062		
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06		
Ca-D	mg/L	13.4	15.2	15.3	16.5	17.2	5	17.2	15.5			16.9		
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.00011	<0.0010	5	<0.0010	0.000152			0.000344		
Co-D	mg/L	0.0000171	0.0000162	0.0000150	0.0000165	<0.00020	5	<0.00020	0.0000330			6.68E-05		
Cu-D	mg/L	0.000488	0.000529	0.000487	0.000522	0.00046	5	0.000529	0.000497	*	*	0.000526		
Hard-D	mg/L	40.0	46.1	45.8	49.7	52.3	5	52.3	46.8			51.3		
DOC	mg/L	2.4	2.2	2.1	2.3	2.3	5	2.4	2.3			2.4		
Fe-D	mg/L	0.0290	0.0277	0.0246	0.0246	0.0235	5	0.0290	0.0259		0.35	0.0285		
Pb-D	mg/L	0.0000083	<0.0000050	<0.0000050	0.0000083	<0.00020	5	<0.00020	0.00002432			6.33E-05		
Mg-D	mg/L	1.58	1.94	1.82	2.09	2.23	5	2.23	1.93			2.17		
Mn-D	mg/L	0.00803	0.00845	0.00608	0.00503	0.0035	5	0.00845	0.00622	0.737	0.8706	0.00828		
Mo-D	mg/L	0.000189	0.000227	0.000275	0.000245	<0.0010	5	<0.0010	0.000287			0.00041		
Ni-D	mg/L	0.000103	0.000081	0.000070	0.000073	<0.00060	5	<0.00060	0.000125			0.000221		
K-D	mg/L	0.214	0.262	0.263	0.301	0.336	5	0.336	0.275			0.322		
S-D	mg/L	10.9	14.7	15.2	15.9	18.4	5	18.4	15.0			17.4		
Se-D	mg/L	0.000051	0.000050	0.000041	0.000057	<0.00010	5	0.000057	0.000050			5.50E-05		
Na-D	mg/L	12.5	15.8	15.6	18.5	20.2	5	20.2	16.5			19.5		
Sr-D	mg/L	0.0740	0.0866	0.0981	0.105	0.108	5	0.108	0.0943			0.1068		
Zn-D	mg/L	0.00094	0.00086	0.00126	0.00137	<0.0030	5	<0.0030	0.00119			0.00145		
Notes: * Calculated guideline. See Exceedance Table.														
Bold indicates factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

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EMS ID	E286930									Water Quality Guidelines			
StnName	Quinsam River Downstream 1												
StnCode	QRDS1												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.72	7.53	7.77	7.79	7.71	5	7.79	7.70			7.78	
Cond-F	uS/cm	214	236	250	244	251	5	251	239.0			250.6	
SO4-D	mg/L	46	51	56	57	62	5	62	54.4	128	128	60	
TSS	mg/L	2.0	1.6	1.6	<1.0	<1.0	5	2.0	1.24			1.84	
Alk-T	mg/L	45	46	48	48	50	5	50	47.4			49.2	
Al-T	mg/L	0.0185	0.0153	0.0132	0.0149	0.0134	5	0.0185	0.0151	*		0.0172	
As-T	mg/L	0.00114	0.00132	0.00113	0.00105	0.00104	5	0.00132	0.00114	0.005		0.00125	
Ba-T	mg/L	0.00419	0.00469	0.00468	0.00438	0.0040	5	0.00469	0.00439	1.00		0.00469	
B-T	mg/L	0.062	0.082	0.075	0.076	0.083	5	0.083	0.076	1.2		0.083	
Bicarb	mg/L	55	57	58	58	60	5	60	57.6			59.2	
Cd-T	mg/L	<0.0000050	<0.0000050	0.0000062	<0.0000050	<0.000010	5	0.0000062	0.00000374			5.72E-06	
Ca-T	mg/L	14.4	18.1	16.4	18.5	18.1	5	18.5	17.1			18.3	
Cr-T	mg/L	0.00017	<0.00010	0.00025	<0.00010	<0.0010	5	<0.0010	0.000204			0.0004	
Co-T	mg/L	0.000024	0.0000201	0.000028	0.000025	<0.00020	5	<0.00020	0.0000394	0.004	0.11	7.12E-05	
Cu-T	mg/L	0.00055	0.000478	0.00050	0.00047	<0.00050	5	0.00055	0.000450			0.00053	
Hard-T	mg/L	43.7	55.1	49.2	55.9	55.1	5	55.9	51.8			55.6	
Fe-T	mg/L	0.0853	0.0854	0.0728	0.0756	0.063	5	0.0854	0.0764		1.0	0.0854	
Pb-T	mg/L	0.000058	0.0000074	<0.000020	<0.000050	<0.00020	5	<0.00020	0.00003558	0.004	0.0176	8.32E-05	
Mg-T	mg/L	1.89	2.38	2.00	2.35	2.43	5	2.43	2.21			2.41	
Mn-T	mg/L	0.0116	0.0130	0.0148	0.0135	0.0109	5	0.0148	0.0128	0.737	0.8706	0.0143	
Mo-T	mg/L	0.000180	0.000192	0.000198		<0.0010	4	<0.0010	0.000267	7.6	46.0	0.000409	
Ni-T	mg/L	<0.00010	0.000075	0.00020	0.0001	<0.0010	5	<0.0010	0.000185	0.025		0.00038	
K-T	mg/L	0.35	0.364	0.37	0.383	0.417	5	0.417	0.377			0.403	
S-T	mg/L	13.7	18.0	16.5	19	19.4	5	19.4	17.3			19.2	
Se-T	mg/L	0.000055	0.000053	0.000051	0.000047	<0.00010	5	0.000055	0.000051	0.002		5.40E-05	
Ag-T	mg/L	<0.000010	<0.0000050	<0.000010	<0.000050	<0.000020	5	<0.000020	0.00000500	0.00005	0.0001	8.00E-06	
Na-T	mg/L	16.8	22.9	19.2	22.7	24.3	5	24.3	21.2			23.7	
Sr-T	mg/L	0.0934	0.116	0.116	0.127	0.126	5	0.127	0.1157			0.1266	
Zn-T	mg/L	0.0014	0.00014	<0.0010	0.00019	<0.0050	5	<0.0050	0.00095	0.0075	0.033	0.00206	
Al-D	mg/L	0.00932	0.0129	0.00886	0.00881	0.0102	5	0.0129	0.01002			0.01182	
As-D	mg/L	0.00110	0.00116	0.00110	0.000943	0.00099	5	0.00116	0.001059			0.001136	
Ba-D	mg/L	0.00435	0.00468	0.00447	0.00405	0.0041	5	0.00468	0.00433			0.0046	
B-D	mg/L	0.067	0.085	0.078	0.076	0.083	5	0.085	0.078			0.084	
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06	
Ca-D	mg/L	16.0	17.5	17.3	17.9	19.1	5	19.1	17.6			18.6	
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000140			0.00032	
Co-D	mg/L	0.0000168	0.0000183	0.0000172	0.0000148	<0.00020	5	<0.00020	0.0000334			6.73E-05	
Cu-D	mg/L	0.000421	0.000497	0.000446	0.00043	0.00042	5	0.000497	0.000443	*	*	0.000477	
Hard-D	mg/L	48.1	52.9	51.9	54.4	57.8	5	57.8	53.0			56.4	
DOC	mg/L	2.2	2.1	1.9	1.9	2.1	5	2.2	2.0			2.2	
Fe-D	mg/L	0.0572	0.0544	0.0469	0.0426	0.0365	5	0.0572	0.0475		0.35	0.0561	
Pb-D	mg/L	0.0000064	0.0000084	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00002396			6.34E-05	
Mg-D	mg/L	1.94	2.22	2.14	2.34	2.45	5	2.45	2.22			2.41	
Mn-D	mg/L	0.00841	0.00820	0.00790	0.00686	0.0060	5	0.00841	0.00747	0.737	0.8706	0.00833	
Mo-D	mg/L	0.000190	0.000271	0.000256	0.0002	<0.0010	5	<0.0010	0.000283			0.000408	
Ni-D	mg/L	0.000057	0.000072	0.000083	0.000055	<0.00060	5	<0.00060	0.000113			0.000213	
K-D	mg/L	0.332	0.376	0.371	0.386	0.433	5	0.433	0.380			0.414	
S-D	mg/L	15.2	18.1	18.2	18.8	21.8	5	21.8	18.4			20.6	
Se-D	mg/L	0.000055	0.000049	0.000050	0.000053	<0.00010	5	0.000055	0.000051			5.40E-05	
Na-D	mg/L	18.4	21.6	21.2	23.1	25.4	5	25.4	21.9			24.5	
Sr-D	mg/L	0.103	0.118	0.124	0.125	0.125	5	0.125	0.119			0.125	
Zn-D	mg/L	0.00061	0.00226	0.00083	0.00067	<0.0030	5	0.00226	0.00117			0.00196	

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

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EMS ID	E292113										Water Quality Guidelines		
StnName	7 South Quinsam River												
StnCode	7SQR												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.72	7.51	7.62	7.59	7.61	5	7.72	7.61			7.68	
Cond-F	uS/cm	205	235	248	237	229	5	248	230.8			243.6	
SO4-D	mg/L	45	51	54	57	58	5	58	53.0	128	128	57.6	
TSS	mg/L	1.2	1.2	1.2	<1.0	<1.0	5	1.2	0.92			1.2	
Alk-T	mg/L	45	46	48	48	51	5	51	47.6			49.8	
Al-T	mg/L	0.0253	0.0179	0.0261	0.018	0.0171	5	0.0261	0.0209	*		0.0258	
As-T	mg/L	0.00118	0.00110	0.00115	0.000913	0.00100	5	0.00118	0.001069	0.005		0.001168	
Ba-T	mg/L	0.00503	0.00508	0.00508	0.00428	0.0046	5	0.00508	0.00481	1.00		0.00508	
B-T	mg/L	0.063	0.078	0.077	0.076	0.086	5	0.086	0.076	1.2		0.083	
Bicarb	mg/L	55	56	59	58	63	5	63	58.2			61.4	
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06	
Ca-T	mg/L	15.1	16.4	17.4	15.9	18.2	5	18.2	16.6			17.9	
Cr-T	mg/L	<0.00010	0.00019	<0.00010	0.00019	<0.0010	5	<0.0010	0.000196			0.000376	
Co-T	mg/L	0.0000288	0.000022	0.0000281	0.000018	<0.00020	5	<0.00020	0.0000394	0.004	0.11	7.15E-05	
Cu-T	mg/L	0.000536	0.00046	0.000526	0.00045	<0.00050	5	0.000536	0.000444			0.000532	
Hard-T	mg/L	46.1	50.2	52.4	48.7	55.6	5	55.6	50.6			54.3	
Fe-T	mg/L	0.147	0.116	0.133	0.103	0.113	5	0.147	0.122		1.0	0.141	
Pb-T	mg/L	0.0000072	<0.000020	0.0000063	<0.000020	<0.00020	5	<0.00020	0.0000267	0.004	0.0176	6.40E-05	
Mg-T	mg/L	2.03	2.22	2.19	2.17	2.44	5	2.44	2.21			2.35	
Mn-T	mg/L	0.0100	0.00968	0.0101	0.00858	0.0088	5	0.0101	0.00943	0.737	0.8706	0.01006	
Mo-T	mg/L	0.000212	0.000199	0.000212	0.000166	<0.0010	5	<0.0010	0.000258	7.6	46.0	0.000385	
Ni-T	mg/L	0.000086	<0.00010	0.000096	0.0001	<0.0010	5	<0.0010	0.000166	0.025		0.00034	
K-T	mg/L	0.345	0.39	0.387	0.34	0.406	5	0.406	0.374			0.4	
S-T	mg/L	15.4	16.6	18.0	17	19.5	5	19.5	17.3			18.9	
Se-T	mg/L	0.000043	0.000040	0.000053	<0.000040	<0.00010	5	0.000053	0.0000412	0.002		5.18E-05	
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.00020	5	<0.000020	0.00000500	0.00005	0.0001	8.00E-06	
Na-T	mg/L	18.8	20.4	21.8	21.8	24.4	5	24.4	21.4			23.4	
Sr-T	mg/L	0.103	0.113	0.129	0.104	0.124	5	0.129	0.115			0.127	
Zn-T	mg/L	0.00036	<0.0010	0.00021	<0.0010	<0.0050	5	<0.0050	0.00081	0.0075	0.033	0.0017	
Al-D	mg/L	0.00939	0.0130	0.00972	0.00968	0.0090	5	0.0130	0.01016			0.01169	
As-D	mg/L	0.00103	0.00110	0.00106	0.000964	0.00096	5	0.00110	0.001023			0.001084	
Ba-D	mg/L	0.00465	0.00512	0.00494	0.00481	0.0045	5	0.00512	0.00480			0.00505	
B-D	mg/L	0.067	0.087	0.080	0.08	0.087	5	0.087	0.080			0.087	
Cd-D	mg/L	<0.0000050	0.0000054	<0.0000050	<0.0000050	<0.000010	5	0.0000054	0.00000358	0.000087	0.00017	5.24E-06	
Ca-D	mg/L	15.8	17.2	17.2	18.4	18.8	5	18.8	17.5			18.6	
Cr-D	mg/L	<0.00010	0.00011	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000152			0.000344	
Co-D	mg/L	0.0000172	0.0000217	0.0000180	0.0000208	<0.00020	5	<0.00020	0.0000355			6.87E-05	
Cu-D	mg/L	0.000423	0.000632	0.000423	0.00044	0.00041	5	0.000632	0.000466	*	*	0.000555	
Hard-D	mg/L	47.3	52.2	51.7	55.7	57.3	5	57.3	52.8			56.7	
DOC	mg/L	1.9	1.9	1.9	1.9	2.1	5	2.1	1.9			2	
Fe-D	mg/L	0.0773	0.0779	0.0782	0.0716	0.0654	5	0.0782	0.0741		0.35	0.0781	
Pb-D	mg/L	0.0000069	<0.0000050	<0.0000050	<0.0000050	<0.00020	5	<0.00020	0.00002288			6.28E-05	
Mg-D	mg/L	1.93	2.22	2.13	2.37	2.50	5	2.50	2.23			2.45	
Mn-D	mg/L	0.00768	0.00851	0.00788	0.00801	0.0081	5	0.00851	0.00804	0.737	0.8706	0.00835	
Mo-D	mg/L	0.000288	0.000256	0.000282	0.000286	<0.0010	5	<0.0010	0.000322			0.000415	
Ni-D	mg/L	0.000074	0.000142	0.000087	0.00003	<0.00060	5	<0.00060	0.000127			0.000237	
K-D	mg/L	0.323	0.373	0.362	0.39	0.418	5	0.418	0.373			0.407	
S-D	mg/L	14.7	18.1	17.7	19	21.1	5	21.1	18.1			20.3	
Se-D	mg/L	0.000052	0.000047	0.000053	0.000047	<0.00010	5	0.000053	0.000050			5.30E-05	
Na-D	mg/L	18.3	21.3	20.6	23.2	24.6	5	24.6	21.6			24	
Sr-D	mg/L	0.0991	0.111	0.123	0.127	0.124	5	0.127	0.1168			0.1258	
Zn-D	mg/L	0.00204	0.00163	0.00099	0.00125	<0.0030	5	0.00204	0.00148			0.00188	
Notes: *Calculated guideline. See Exceedance Table.													
Bold indicates factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

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EMS ID	E299256									Water Quality Guidelines			
StnName	Iron River & Quinsam River												
StnCode	IRQR												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.6	7.55	7.63	7.58	7.69	5	7.69	7.61			7.67	
Cond-F	uS/cm	190.8	226	242	229	226	5	242	222.8			236.8	
SO4-D	mg/L	41	47	52	55	55	5	55	50.0	128	128	55	
TSS	mg/L	<1.0	<1.0	1.2	<1.0	1.2	5	1.2	0.78			1.2	
Alk-T	mg/L	45	48	48	47	47	5	48	47.0			48	
Al-T	mg/L	0.0160	0.0188	0.0195	0.0186	0.0157	5	0.0195	0.0177	*		0.0192	
As-T	mg/L	0.00112	0.00101	0.00113	0.00102	0.00091	5	0.00113	0.00104	0.005		0.00113	
Ba-T	mg/L	0.00511	0.00487	0.00530	0.00495	0.0045	5	0.00530	0.00495	1.00		0.00522	
B-T	mg/L	0.059	0.069	0.075	0.071	0.079	5	0.079	0.071	1.2		0.077	
Bicarb	mg/L	55	58	58	58	57	5	58	57.2			58	
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300			4.00E-06	
Ca-T	mg/L	14.8	15.7	17.7	18.4	17.3	5	18.4	16.8			18.1	
Cr-T	mg/L	<0.00010	0.00014	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000158			0.000356	
Co-T	mg/L	0.0000240	0.000030	0.0000257	0.0000206	<0.00020	5	<0.00020	0.0000401	0.004	0.11	7.20E-05	
Cu-T	mg/L	0.000507	0.00048	0.000487	0.000495	<0.00050	5	0.000507	0.000444			0.000502	
Hard-T	mg/L	44.7	47.7	52.9	55.8	52.7	5	55.8	50.8			54.6	
Fe-T	mg/L	0.106	0.110	0.117	0.114	0.101	5	0.117	0.110		1.0	0.116	
Pb-T	mg/L	0.0000052	<0.000020	0.0000094	<0.000050	<0.00020	5	<0.00020	0.00002542	0.004	0.0176	6.40E-05	
Mg-T	mg/L	1.87	2.06	2.10	2.38	2.29	5	2.38	2.14			2.34	
Mn-T	mg/L	0.00843	0.00898	0.00967	0.0104	0.0088	5	0.0104	0.00926	0.737	0.8706	0.01011	
Mo-T	mg/L	0.000192	0.000185	0.000207		<0.0010	4	<0.0010	0.000271	7.6	46.0	0.000412	
Ni-T	mg/L	0.000079	<0.00010	0.000074	0.000069	<0.0010	5	<0.0010	0.000154	0.025		0.000332	
K-T	mg/L	0.315	0.36	0.369	0.375	0.375	5	0.375	0.359			0.375	
S-T	mg/L	14.7	15.2	17.4	18.1	17.8	5	18.1	16.6			18	
Se-T	mg/L	0.000054	0.000062	0.000054	0.00005	<0.00010	5	0.000062	0.000054	0.002		5.90E-05	
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.000020	5	<0.000020	0.00000450	0.00005	0.0001	8.00E-06	
Na-T	mg/L	15.9	17.9	20.0	22.4	22.2	5	22.4	19.7			22.3	
Sr-T	mg/L	0.0937	0.100	0.124	0.123	0.113	5	0.124	0.1107			0.1236	
Zn-T	mg/L	0.00029	<0.0010	0.00029	0.00023	<0.0050	5	<0.0050	0.00076	0.0075	0.033	0.0017	
Al-D	mg/L	0.0104	0.0107	0.00972	0.00928	0.0097	5	0.0107	0.00996			0.01058	
As-D	mg/L	0.00106	0.00100	0.00103	0.000952	0.00094	5	0.00106	0.000996			0.001048	
Ba-D	mg/L	0.00498	0.00529	0.00515	0.00487	0.0048	5	0.00529	0.00502			0.00523	
B-D	mg/L	0.062	0.082	0.076	0.078	0.084	5	0.084	0.076			0.083	
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	5	<0.000010	0.00000300	0.000087	0.00017	4.00E-06	
Ca-D	mg/L	15.4	17.1	17.1	18.4	18.9	5	18.9	17.4			18.7	
Cr-D	mg/L	0.00023	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000176			0.000392	
Co-D	mg/L	0.0000261	0.0000250	0.0000191	0.0000186	<0.00020	5	<0.00020	0.0000378			7.04E-05	
Cu-D	mg/L	0.000518	0.000466	0.000450	0.000437	0.00044	5	0.000518	0.000462	*	*	0.000497	
Hard-D	mg/L	46.1	51.9	51.3	55.5	57.2	5	57.2	52.4			56.5	
DOC	mg/L	2.1	2.0	1.9	2	1.9	5	2.1	2.0			2.1	
Fe-D	mg/L	0.0828	0.0792	0.0728	0.0697	0.0695	5	0.0828	0.0748		0.35	0.0814	
Pb-D	mg/L	0.0000307	0.0000076	0.0000071	0.0000054	<0.00020	5	<0.00020	0.0000302			7.23E-05	
Mg-D	mg/L	1.86	2.21	2.11	2.33	2.46	5	2.46	2.19			2.41	
Mn-D	mg/L	0.00722	0.00818	0.00729	0.00818	0.0088	5	0.0088	0.00793	0.737	0.8706	0.00855	
Mo-D	mg/L	0.000244	0.000239	0.000294	0.000354	<0.0010	5	<0.0010	0.000326			0.000442	
Ni-D	mg/L	0.000282	0.000092	0.000081	0.00005	<0.00060	5	<0.00060	0.000161			0.000293	
K-D	mg/L	0.306	0.365	0.365	0.381	0.415	5	0.415	0.366			0.401	
S-D	mg/L	13.0	16.9	17.3	18.4	21.6	5	21.6	17.4			20.3	
Se-D	mg/L	0.000067	0.000053	0.000054	0.00005	<0.00010	5	0.000067	0.000055			6.20E-05	
Na-D	mg/L	16.0	20.0	19.5	22.2	24.2	5	24.2	20.4			23.4	
Sr-D	mg/L	0.0920	0.104	0.119	0.123	0.121	5	0.123	0.1118			0.1222	
Zn-D	mg/L	0.00336	0.00221	0.00162	0.00161	<0.0030	5	0.00336	0.00206			0.0029	

Notes: *Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

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EMS ID	E297231	Water Quality Guidelines										
StnName	Iron River Upstream Site 6											
StnCode	IR6											
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.96	7.88	8.01	8.01	8.09	5	8.09	7.99			8.06
Cond-F	uS/cm	102.8	116.8	135.2	143.1	155.9	5	155.9	130.8			150.8
SO4-D	mg/L	4.5	5.6	6.6	7.9	9.4	5	9.4	6.8	128	128	8.8
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5
Alk-T	mg/L	44	47	56	61	66	5	66	54.8			64
Al-T	mg/L	0.0239	0.0209	0.0191	0.0162	0.0150	5	0.0239	0.0190	*		0.0227
As-T	mg/L	0.00172	0.00240	0.00306	0.00434	0.00535	5	0.00535	0.00337	0.005		0.00495
Ba-T	mg/L	0.00565	0.00699	0.00890	0.0105	0.0111	5	0.0111	0.00863	1.00		0.01086
B-T	mg/L	0.021	0.024	0.030	0.032	<0.050	5	0.032	0.0264	1.2		0.0312
Bicarb	mg/L	54	58	68	74	81	5	81	67.0			78.2
Cd-T	mg/L	0.0000110	0.0000115	0.0000120	0.0000109	<0.000010	5	0.0000120	0.0000101			1.18E-05
Ca-T	mg/L	14.6	18.8	19.8	22.6	24.1	5	24.1	20.0			23.5
Cr-T	mg/L	0.00019	<0.00010	0.00010	<0.00010	<0.0010	5	<0.0010	0.000178			0.000376
Co-T	mg/L	0.000021	0.0000189	0.0000159	0.0000144	<0.00020	5	<0.00020	0.0000340	0.004	0.11	6.84E-05
Cu-T	mg/L	0.00050	0.000448	0.000456	0.000421	<0.00050	5	0.00050	0.000415			0.000482
Hard-T	mg/L	41.0	52.3	54.9	63.3	67.8	5	67.8	55.9			66
Fe-T	mg/L	0.0089	0.0057	0.0049	0.0041	<0.010	5	0.0089	0.0057		1.0	0.0076
Pb-T	mg/L	<0.000020	0.0000085	<0.000050	<0.000050	<0.00020	5	<0.00020	0.00002470	0.004	0.0176	6.40E-05
Mg-T	mg/L	1.09	1.30	1.32	1.66	1.85	5	1.85	1.44			1.77
Mn-T	mg/L	0.00073	0.000619	0.000768	0.000984	<0.0010	5	0.000984	0.000720	0.737	0.8706	0.000898
Mo-T	mg/L	0.000231	0.000296	0.000333	<0.0010	<0.0010	4	<0.0010	0.000340	7.6	46.0	0.00045
Ni-T	mg/L	0.00010	0.000099	0.000105	0.000065	<0.0010	5	<0.0010	0.000174	0.025		0.000342
K-T	mg/L	<0.25	0.163	0.195	0.215	0.239	5	0.239	0.187			0.229
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	0.000224	0.000283	0.000259	0.000234	0.00025	5	0.000283	0.000250	0.002		0.000273
Ag-T	mg/L	<0.000010	<0.0000050	<0.000050	<0.000050	<0.000020	5	<0.000020	0.00000450	0.00005	0.0001	8.00E-06
Na-T	mg/L	1.42	1.76	1.88	2.3	2.59	5	2.59	1.99			2.47
Sr-T	mg/L	0.0500	0.0606	0.0708	0.0786	0.0814	5	0.0814	0.0683			0.0803
Zn-T	mg/L	<0.0010	0.00016	0.00016	0.00018	<0.0050	5	<0.0050	0.00070	0.0075	0.033	0.0017
Al-D	mg/L	0.0210	0.0184	0.0177	0.0156	0.0149	5	0.0210	0.0175			0.02
As-D	mg/L	0.00174	0.00232	0.00293	0.00424	0.00562	5	0.00562	0.00337			0.00507
Ba-D	mg/L	0.00609	0.00715	0.00864	0.0102	0.0114	5	0.0114	0.00870			0.01092
B-D	mg/L	0.020	0.029	0.029	0.034	<0.050	5	0.034	0.0274			0.032
Cd-D	mg/L	0.0000094	0.0000102	0.0000090	0.0000167	0.000013	5	0.0000167	0.0000117	0.000087	0.00017	1.52E-05
Ca-D	mg/L	15.7	17.4	19.3	22.9	25.3	5	25.3	20.1			24.3
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000140			0.00032
Co-D	mg/L	0.0000208	0.0000206	0.0000175	0.0000218	<0.00020	5	<0.00020	0.0000361			6.87E-05
Cu-D	mg/L	0.000504	0.000535	0.000461	0.000432	0.00044	5	0.000535	0.000474	*	*	0.000523
Hard-D	mg/L	43.6	48.7	53.5	63.9	70.9	5	70.9	56.1			68.1
DOC	mg/L	2.2	1.8	1.7	1.5	1.4	5	2.2	1.7			2
Fe-D	mg/L	0.0044	0.0043	0.0030	0.0038	<0.0050	5	0.0044	0.00360		0.35	0.00436
Pb-D	mg/L	0.0000077	<0.0000050	<0.0000050	0.0000069	<0.00020	5	<0.00020	0.00002392			6.31E-05
Mg-D	mg/L	1.08	1.26	1.28	1.63	1.87	5	1.87	1.42			1.77
Mn-D	mg/L	0.000454	0.000519	0.000568	0.000806	<0.0010	5	0.000806	0.000569	0.737	0.8706	0.000711
Mo-D	mg/L	0.000293	0.000301	0.000744	0.000486	<0.0010	5	0.000744	0.000465			0.000646
Ni-D	mg/L	0.000103	0.000102	0.000099	0.000067	<0.00060	5	<0.00060	0.000134			0.000221
K-D	mg/L	0.162	0.173	0.187	0.218	0.244	5	0.244	0.197			0.234
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	3.7	5	3.7	1.94			2.82
Se-D	mg/L	0.000235	0.000267	0.000276	0.000271	0.00023	5	0.000276	0.000256			0.000274
Na-D	mg/L	1.42	1.67	1.81	2.35	2.69	5	2.69	1.99			2.55
Sr-D	mg/L	0.0523	0.0594	0.0690	0.0792	0.0824	5	0.0824	0.0685			0.0811
Zn-D	mg/L	0.00099	0.00169	0.00231	0.00161	<0.0030	5	0.00231	0.00162			0.00206
Notes: * Calculated guideline. See Exceedance Table.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

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EMS ID	E297232									Water Quality Guidelines			
StnName	Iron River Downstream Site 8												
StnCode	IR8												
Date	Unit	3-Jul-25	7-Jul-25	14-Jul-25	21-Jul-25	28-Jul-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	8.03	7.84	8.03	8.03	8.18	5	8.18	8.02			8.12	
Cond-F	uS/cm	105.4	120.4	139.8	134.8	163.1	5	163.1	132.7			153.8	
SO4-D	mg/L	4.5	5.5	6.8	8	9.6	5	9.6	6.9	128	128	9	
TSS	mg/L	<1.0	<1.0	1.2	<1.0	<1.0	5	1.2	0.64			0.92	
Alk-T	mg/L	45	50	56	64	68	5	68	56.6			66.4	
Al-T	mg/L	0.0223	0.0200	0.0229	0.0152	0.0175	5	0.0229	0.0196	*		0.0227	
As-T	mg/L	0.00439	0.00616	0.00799	0.0115	0.0137	5	0.0137	0.00875	0.005		0.01282	
Ba-T	mg/L	0.00736	0.00827	0.0103	0.0115	0.0116	5	0.0116	0.00981	1.00		0.01156	
B-T	mg/L	0.024	0.029	0.036	0.043	0.056	5	0.056	0.038	1.2		0.051	
Bicarb	mg/L	54	60	68	78	83	5	83	68.6			81	
Cd-T	mg/L	0.0000118	0.0000108	0.0000298	0.0000059	<0.000010	5	0.0000298	0.0000127			2.26E-05	
Ca-T	mg/L	14.9	18.8	19.0	23.1	24.0	5	24.0	20.0			23.6	
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000140			0.00032	
Co-T	mg/L	0.0000199	0.0000185	0.0000312	0.0000132	<0.00020	5	<0.00020	0.0000366	0.004	0.11	7.25E-05	
Cu-T	mg/L	0.000544	0.000524	0.000545	0.000525	0.00050	5	0.000545	0.000528			0.000545	
Hard-T	mg/L	41.9	52.6	53.1	65.2	67.8	5	67.8	56.1			66.8	
Fe-T	mg/L	0.0094	0.0082	0.0121	0.0059	0.013	5	0.013	0.0097		1.0	0.0126	
Pb-T	mg/L	<0.0000050	0.0000152	0.0000236	<0.0000050	<0.00020	5	<0.00020	0.00002876	0.004	0.0176	6.94E-05	
Mg-T	mg/L	1.14	1.40	1.40	1.82	1.90	5	1.90	1.53			1.87	
Mn-T	mg/L	0.000672	0.000684	0.00207	0.000749	0.0012	5	0.00207	0.001075	0.737	0.8706	0.001722	
Mo-T	mg/L	0.000277	0.000293	0.000409		<0.0010	4	<0.0010	0.000370	7.6	46.0	0.000473	
Ni-T	mg/L	0.000109	0.000102	0.000111	0.000074	<0.0010	5	<0.0010	0.000179	0.025		0.000344	
K-T	mg/L	0.181	0.178	0.215	0.232	0.330	5	0.330	0.227			0.291	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	0.000204	0.000238	0.000216	0.000215	0.00018	5	0.000238	0.000211	0.002		0.000229	
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000020	5	<0.000020	0.00000400	0.00005	0.0001	7.00E-06	
Na-T	mg/L	1.80	2.29	2.52	3.45	3.93	5	3.93	2.80			3.74	
Sr-T	mg/L	0.0552	0.0614	0.0739	0.0837	0.0826	5	0.0837	0.0714			0.0833	
Zn-T	mg/L	0.00039	0.00053	0.00459	0.00013	<0.0050	5	0.00459	0.00163	0.0075	0.033	0.00375	
Al-D	mg/L	0.0204	0.0181	0.0174	0.0153	0.0172	5	0.0204	0.0177			0.0195	
As-D	mg/L	0.00424	0.00596	0.00789	0.0111	0.0151	5	0.0151	0.00886			0.0135	
Ba-D	mg/L	0.00725	0.00841	0.00999	0.0113	0.0125	5	0.0125	0.00989			0.01202	
B-D	mg/L	0.025	0.033	0.037	0.047	0.060	5	0.060	0.040			0.055	
Cd-D	mg/L	0.0000092	0.0000105	0.0000083	0.000011	0.000012	5	0.000012	0.0000102	0.000087	0.00017	1.16E-05	
Ca-D	mg/L	15.2	17.9	19.8	23.1	25.8	5	25.8	20.4			24.7	
Cr-D	mg/L	0.00012	<0.00010	<0.00010	<0.00010	<0.0010	5	<0.0010	0.000154			0.000348	
Co-D	mg/L	0.0000181	0.0000192	0.0000192	0.0000204	<0.00020	5	<0.00020	0.0000354			6.82E-05	
Cu-D	mg/L	0.000542	0.000535	0.000542	0.000536	0.00050	5	0.000542	0.000531	*	*	0.000542	
Hard-D	mg/L	42.7	50.4	55.1	64.8	72.7	5	72.7	57.1			69.5	
DOC	mg/L	2.0	1.8	1.7	1.6	1.7	5	2.0	1.8			1.9	
Fe-D	mg/L	0.0080	0.0062	0.0061	0.0067	0.0062	5	0.0080	0.0066		0.35	0.0075	
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000188	<0.00020	5	<0.00020	0.00002526			6.75E-05	
Mg-D	mg/L	1.12	1.36	1.39	1.75	2.03	5	2.03	1.53			1.92	
Mn-D	mg/L	0.000574	0.000611	0.000723	0.000692	0.0010	5	0.0010	0.000720	0.737	0.8706	0.000889	
Mo-D	mg/L	0.000281	0.000490	0.000422	0.000489	<0.0010	5	<0.0010	0.000436			0.000496	
Ni-D	mg/L	0.000118	0.000098	0.000109	0.000084	<0.00060	5	<0.00060	0.000142			0.000227	
K-D	mg/L	0.170	0.185	0.207	0.232	0.346	5	0.346	0.228			0.3	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	3.9	5	3.9	1.98			2.94	
Se-D	mg/L	0.000200	0.000242	0.000242	0.000218	0.00021	5	0.000242	0.000222			0.000242	
Na-D	mg/L	1.77	2.18	2.49	3.34	4.34	5	4.34	2.82			3.94	
Sr-D	mg/L	0.0525	0.0603	0.0716	0.0815	0.0875	5	0.0875	0.0707			0.0851	
Zn-D	mg/L	0.00163	0.00187	0.00065	0.00071	<0.0030	5	0.00187	0.00127			0.00177	

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E217017	Water Quality Guidelines										
StnName	No Name Lake Outlet											
StnCode	NNO											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.99	7.8	7.53	7.52	7.26	5	7.99	7.62			7.91
Cond-F	uS/cm	50.3	58.5	70.5	32.2	34.3	5	70.5	49.2			65.7
SO4-D	mg/L	1.6	1.4	<1.0	<1.0	<1.0	5	1.6	0.90	128	128	1.52
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	5	1.6	0.72			1.16
Alk-T	mg/L	14	15	15	12	11	5	15	13.4			15
Al-T	mg/L	0.0177	0.0246	0.0246	0.0609	0.0688	5	0.0688	0.0393	*		0.0656
As-T	mg/L	0.000337	0.000323	0.000288	0.000304	0.000309	5	0.000337	0.000312	0.005		0.000331
Ba-T	mg/L	0.00111	0.00122	0.00105	0.00121	0.00124	5	0.00124	0.00117	1.00		0.00123
B-T	mg/L	0.013	0.014	0.011	0.011	0.011	5	0.014	0.012	1.2		0.014
Bicarb	mg/L	17	18	18	14	14	5	18	16.2			18
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	4.73	4.61	4.39	4.06	3.64	5	4.73	4.29			4.68
Cr-T	mg/L	<0.00010	<0.00010	0.00013	0.00024	0.00022	5	0.00024	0.000138			0.000232
Co-T	mg/L	0.0000154	0.0000181	0.0000135	0.000033	0.0000282	5	0.000033	0.0000216	0.004	0.11	3.11E-05
Cu-T	mg/L	0.000458	0.000527	0.000474	0.00071	0.000652	5	0.00071	0.000564			0.000687
Hard-T	mg/L	15.7	15.6	14.8	13.7	12.7	5	15.7	14.5			15.7
Fe-T	mg/L	0.0437	0.0489	0.0513	0.0854	0.0758	5	0.0854	0.0610	*	1.0	0.0816
Pb-T	mg/L	<0.0000050	0.0000089	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000528	0.004	0.0176	9.56E-06
Mg-T	mg/L	0.944	0.985	0.935	0.87	0.872	5	0.985	0.921			0.969
Mn-T	mg/L	0.00355	0.00341	0.00311	0.0048	0.00361	5	0.0048	0.00370	0.737	0.8706	0.00432
Mo-T	mg/L	0.000135	0.000146	0.000121	0.00012	0.000125	5	0.000146	0.000129	7.6	46.0	0.000142
Ni-T	mg/L	0.000069	0.000132	0.000041	<0.00010	0.000080	5	0.000132	0.000074	0.025		0.000111
K-T	mg/L	0.060	0.067	0.059	<0.25	0.098	5	<0.25	0.082			0.114
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06
Na-T	mg/L	1.27	1.19	1.18	1.16	1.21	5	1.27	1.20			1.25
Sr-T	mg/L	0.0146	0.0148	0.0128	0.0126	0.0112	5	0.0148	0.0132			0.0147
Zn-T	mg/L	<0.00010	0.00011	0.00016	<0.0010	0.00034	5	<0.0010	0.000232	0.0075	0.033	0.000436
Al-D	mg/L	0.0141	0.02	0.0219	0.0496	0.0555	5	0.0555	0.0322			0.0531
As-D	mg/L	0.000307	0.000325	0.000337	0.000285	0.000300	5	0.000337	0.000311			0.000332
Ba-D	mg/L	0.00104	0.00123	0.00124	0.00134	0.00118	5	0.00134	0.00121			0.0013
B-D	mg/L	0.015	0.011	0.014	0.012	0.011	5	0.015	0.013			0.015
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	4.45	4.64	4.56	4.19	3.82	5	4.64	4.33			4.61
Cr-D	mg/L	<0.00010	<0.00010	0.00015	0.00018	0.00018	5	0.00018	0.000122			0.00018
Co-D	mg/L	0.0000117	0.0000147	0.0000142	0.0000223	0.0000260	5	0.0000260	0.0000178			2.45E-05
Cu-D	mg/L	0.000442	0.000505	0.000532	0.000631	0.000653	5	0.000653	0.000553	*	*	0.000644
Hard-D	mg/L	14.8	15.5	15.4	14.2	12.9	5	15.5	14.6			15.5
DOC	mg/L	3.7	4.1	3.7	4.7	4.6	5	4.7	4.2			4.7
Fe-D	mg/L	0.0247	0.0318	0.0342	0.0569	0.0579	5	0.0579	0.0411			0.0575
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	0.893	0.948	0.966	0.907	0.817	5	0.966	0.906			0.959
Mn-D	mg/L	0.00101	0.00141	0.00169	0.00244	0.00220	5	0.00244	0.00175	0.737	0.8706	0.00234
Mo-D	mg/L	0.000210	0.000182	0.000178	0.000173	0.000141	5	0.000210	0.000177			0.000199
Ni-D	mg/L	0.000061	0.000072	0.000053	0.000092	0.000080	5	0.000092	0.000072			8.70E-05
K-D	mg/L	0.061	0.071	0.066	0.111	0.095	5	0.111	0.081			0.105
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	1.18	1.17	1.2	1.17	1.12	5	1.2	1.17			1.19
Sr-D	mg/L	0.0137	0.0144	0.0152	0.0127	0.0110	5	0.0152	0.0134			0.0149
Zn-D	mg/L	0.00206	0.00079	0.00173	0.00104	0.00063	5	0.00206	0.00125			0.00193

Notes: *Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID		E219412								Water Quality Guidelines		
StnName		Long Lake Outlet										
StnCode		LLO										
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.81	7.92	7.48	7.32	7.31	5	7.92	7.57			7.88
Cond-F	uS/cm	208	210	196.5	151.1	73.5	5	210	167.8			209.2
SO4-D	mg/L	63	59	54	44	15	5	63	47.0	128	128	61.4
TSS	mg/L	1.2	2.4	<1.0	<1.0	1.2	5	2.4	1.16			1.92
Alk-T	mg/L	35	33	33	27	15	5	35	28.6			34.2
Al-T	mg/L	0.0175	0.0136	0.0109	0.0302	0.0542	5	0.0542	0.0253	*		0.0446
As-T	mg/L	0.000586	0.000553	0.000514	0.000496	0.000388	5	0.000586	0.000507	0.005		0.000573
Ba-T	mg/L	0.00600	0.00585	0.00509	0.00498	0.00285	5	0.00600	0.00495	1.00		0.00594
B-T	mg/L	0.062	0.063	0.052	0.047	0.023	5	0.063	0.049	1.2		0.063
Bicarb	mg/L	43	41	40	33	18	5	43	35.0			42.2
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	26.3	23.3	23	19.3	8.53	5	26.3	20.9			25.1
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	0.00015	0.00016	5	0.00016	0.000092			0.000156
Co-T	mg/L	0.0000209	0.000015	0.0000109	0.000025	0.0000262	5	0.0000262	0.0000196	0.004	0.11	2.57E-05
Cu-T	mg/L	0.000375	0.00038	0.000312	0.00048	0.000532	5	0.000532	0.000416			0.000511
Hard-T	mg/L	79.1	71.2	71.2	59.3	27.5	5	79.1	61.7			75.9
Fe-T	mg/L	0.0410	0.0396	0.0467	0.0629	0.0710	5	0.0710	0.0522	*	1.0	0.0678
Pb-T	mg/L	0.0000054	<0.000020	<0.0000050	<0.000020	0.0000070	5	<0.000020	0.00000698	0.004	0.0176	1.00E-05
Mg-T	mg/L	3.24	3.14	3.34	2.69	1.50	5	3.34	2.78			3.3
Mn-T	mg/L	0.00718	0.00641	0.00582	0.00772	0.00402	5	0.00772	0.00623	0.737	0.8706	0.0075
Mo-T	mg/L	0.000174	0.000165	0.000144	0.000141	0.000142	5	0.000174	0.000153	7.6	46.0	0.00017
Ni-T	mg/L	0.000168	0.00014	0.000106	0.00013	0.000091	5	0.000168	0.000127	0.025		0.000157
K-T	mg/L	0.305	0.29	0.277	0.28	0.163	5	0.305	0.263			0.299
S-T	mg/L	20.7	19.3	18.1	15.8	4.4	5	20.7	15.7			20.1
Se-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200	0.002		2.00E-05
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.00005	0.0001	5.00E-06
Na-T	mg/L	8.45	7.49	7.45	6	2.60	5	8.45	6.40			8.07
Sr-T	mg/L	0.175	0.161	0.147	0.12	0.0412	5	0.175	0.1288			0.1694
Zn-T	mg/L	0.00022	<0.0010	0.00016	<0.0010	0.00040	5	<0.0010	0.00036	0.0075	0.033	0.0005
Al-D	mg/L	0.00749	0.00802	0.0075	0.0188	0.0425	5	0.0425	0.01686			0.03302
As-D	mg/L	0.000550	0.000542	0.000543	0.000485	0.000390	5	0.000550	0.000502			0.000547
Ba-D	mg/L	0.00573	0.00593	0.00597	0.0053	0.00284	5	0.00597	0.00515			0.00595
B-D	mg/L	0.064	0.056	0.064	0.048	0.024	5	0.064	0.051			0.064
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	25.2	24	24.2	20.2	8.83	5	25.2	20.49			24.8
Cr-D	mg/L	<0.00010	<0.00010	0.00011	0.00018	0.00016	5	0.00018	0.000110			0.000172
Co-D	mg/L	0.0000102	0.0000109	0.0000142	0.0000145	0.0000240	5	0.0000240	0.0000148			2.02E-05
Cu-D	mg/L	0.000326	0.000355	0.000374	0.000389	0.000557	5	0.000557	0.000400	*	*	0.00049
Hard-D	mg/L	75.9	72.8	73.9	61.8	27.7	5	75.9	62.4			75.1
DOC	mg/L	3.4	3.5	3.3	3.9	4.8	5	4.8	3.8			4.4
Fe-D	mg/L	0.0181	0.0196	0.0255	0.0339	0.0557	5	0.0557	0.0306			0.047
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Mg-D	mg/L	3.13	3.12	3.27	2.75	1.38	5	3.27	2.73			3.21
Mn-D	mg/L	0.00363	0.00255	0.00244	0.00338	0.00248	5	0.00363	0.00290	0.737	0.8706	0.00353
Mo-D	mg/L	0.000200	0.000225	0.000252	0.000165	0.000283	5	0.000283	0.000225			0.000271
Ni-D	mg/L	0.000123	0.000111	0.000127	0.000117	0.000104	5	0.000127	0.000116			0.000125
K-D	mg/L	0.298	0.302	0.314	0.282	0.163	5	0.314	0.272			0.309
S-D	mg/L	19.8	18.1	20.9	14.9	4.7	5	20.9	15.7			20.5
Se-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	5	<0.000040	0.0000200			2.00E-05
Na-D	mg/L	7.93	7.41	7.63	6.07	2.50	5	7.93	6.31			7.81
Sr-D	mg/L	0.165	0.164	0.168	0.123	0.0423	5	0.168	0.1325			0.1668
Zn-D	mg/L	0.00126	0.0009	0.00128	0.00067	0.00141	5	0.00141	0.00110			0.00136

Notes: *Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E0126402	Water Quality Guidelines										
StnName	Quinsam River at Argonaut Road											
StnCode	WA											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	8.09	7.76	7.53	7.43	7.38	5	8.09	7.64			7.96
Cond-F	uS/cm	53.3	49.5	46.4	40.1	45.4	5	53.3	46.9			51.8
SO4-D	mg/L	1.3	1.6	<1.0	<1.0	<1.0	5	1.6	0.88	128	128	1.48
TSS	mg/L	<1.0	<1.0	1.2	<1.0	<1.0	5	1.2	0.64			0.92
Alk-T	mg/L	23	22	23	16	21	5	23	21.0			23
Al-T	mg/L	0.0172	0.0162	0.0128	0.0553	0.0287	5	0.0553	0.0260	*		0.0447
As-T	mg/L	0.000142	0.000208	0.00013	0.000157	0.000121	5	0.000208	0.000152	0.005		0.000188
Ba-T	mg/L	0.000985	0.000954	0.000733	0.00199	0.000926	5	0.00199	0.001118	1.00		0.001588
B-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050	1.2		0.005
Bicarb	mg/L	28	27	27	19	26	5	28	25.4			27.6
Cd-T	mg/L	<0.0000050	0.0000546	<0.0000050	<0.0000050	<0.0000050	5	0.0000546	0.00001292			3.38E-05
Ca-T	mg/L	7.35	7.3	6.72	5.51	6.41	5	7.35	6.66			7.33
Cr-T	mg/L	<0.00010	0.00014	0.00015	0.0002	0.00015	5	0.0002	0.000138			0.00018
Co-T	mg/L	0.0000108	0.0000535	0.0000051	0.00003	0.0000171	5	0.0000535	0.0000233	0.004	0.11	4.41E-05
Cu-T	mg/L	0.000586	0.000652	0.000498	0.0008	0.000556	5	0.0008	0.000618			0.000741
Hard-T	mg/L	21.6	21.6	19.9	16.6	19.3	5	21.6	19.8			21.6
Fe-T	mg/L	0.0134	0.0148	0.012	0.0372	0.0166	5	0.0372	0.0188	*	1.0	0.029
Pb-T	mg/L	<0.0000050	0.0000447	<0.0000050	<0.000020	<0.0000050	5	0.0000447	0.00001244	0.004	0.0176	3.08E-05
Mg-T	mg/L	0.801	0.821	0.764	0.7	0.799	5	0.821	0.777			0.813
Mn-T	mg/L	0.00148	0.00146	0.0013	0.0027	0.00193	5	0.0027	0.00177	0.737	0.8706	0.00239
Mo-T	mg/L	0.000195	0.000255	0.000153	0.000217	0.000176	5	0.000255	0.000199	7.6	46.0	0.00024
Ni-T	mg/L	0.000044	0.000241	0.000033	0.00011	0.000040	5	0.000241	0.000094	0.025		0.000189
K-T	mg/L	0.055	0.077	<0.050	<0.25	0.062	5	<0.25	0.0688			0.1058
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	0.000053	0.000058	0.000047	0.000044	0.000048	5	0.000058	0.000050	0.002		5.60E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06
Na-T	mg/L	0.744	0.742	0.643	0.84	0.744	5	0.84	0.743			0.802
Sr-T	mg/L	0.0131	0.0133	0.0108	0.0112	0.0114	5	0.0133	0.0120			0.0132
Zn-T	mg/L	<0.00010	0.00952	0.00025	<0.0010	0.00025	5	0.00952	0.002114	0.0075	0.033	0.005912
Al-D	mg/L	0.0143	0.012	0.0131	0.0413	0.0199	5	0.0413	0.0201			0.0327
As-D	mg/L	0.000140	0.000134	0.000138	0.00019	0.000118	5	0.00019	0.000144			0.00017
Ba-D	mg/L	0.000954	0.000875	0.000895	0.00206	0.000922	5	0.00206	0.001141			0.001618
B-D	mg/L	0.012	<0.010	0.01	<0.010	<0.010	5	0.012	0.0074			0.0112
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	6.98	7.21	7.1	6.38	6.95	5	7.21	6.92			7.17
Cr-D	mg/L	<0.00010	<0.00010	0.00012	0.00018	0.00013	5	0.00018	0.000106			0.00016
Co-D	mg/L	0.0000090	0.000009	0.0000123	0.0000186	0.0000088	5	0.0000186	0.0000115			1.61E-05
Cu-D	mg/L	0.000553	0.000574	0.000797	0.000645	0.000588	5	0.000797	0.000631	*	*	0.000736
Hard-D	mg/L	20.5	21.3	21	19.1	20.5	5	21.3	20.5			21.2
DOC	mg/L	2.1	2.2	2	3.5	2.4	5	3.5	2.4			3.1
Fe-D	mg/L	0.0089	0.0086	0.0095	0.0218	0.0086	5	0.0218	0.0115			0.0169
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000062	<0.0000050	5	0.0000062	0.00000324			4.72E-06
Mg-D	mg/L	0.748	0.791	0.802	0.759	0.763	5	0.802	0.773			0.798
Mn-D	mg/L	0.000688	0.000854	0.000714	0.000878	0.000749	5	0.000878	0.000777	0.737	0.8706	0.000868
Mo-D	mg/L	0.000262	0.000198	0.000263	0.000256	0.000260	5	0.000263	0.000248			0.000263
Ni-D	mg/L	0.000041	0.000052	0.000107	0.000078	0.000037	5	0.000107	0.000063			9.50E-05
K-D	mg/L	0.060	0.06	0.057	0.078	0.062	5	0.078	0.063			0.072
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	0.000067	0.000061	0.000072	0.000044	0.000056	5	0.000072	0.000060			7.00E-05
Na-D	mg/L	0.707	0.692	0.72	0.904	0.672	5	0.904	0.739			0.83
Sr-D	mg/L	0.0122	0.0127	0.0133	0.0126	0.0117	5	0.0133	0.0125			0.0131
Zn-D	mg/L	0.00335	0.00061	0.00125	0.00104	0.00095	5	0.00335	0.00144			0.00251
Notes: *Calculated guideline. See Exceedance Table.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E0900504	Water Quality Guidelines										
StnName	Middle Quinsam Lake Outlet											
StnCode	WB											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.65	7.19	7.35	7.39	7.15	5	7.65	7.35			7.55
Cond-F	uS/cm	127.3	121.7	108.3	103.1	63.7	5	127.3	104.8			125.1
SO4-D	mg/L	27	23	20	22	7.5	5	27	19.9	128	128	25.4
TSS	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	5	1.2	0.64			0.92
Alk-T	mg/L	34	32	33	30	21	5	34	30.0			33.6
Al-T	mg/L	0.00851	0.00999	0.00596	0.0167	0.0352	5	0.0352	0.01527	*		0.0278
As-T	mg/L	0.000201	0.000221	0.000156	0.000213	0.000192	5	0.000221	0.000197	0.005		0.000218
Ba-T	mg/L	0.00220	0.00219	0.00165	0.00227	0.00173	5	0.00227	0.00201	1.00		0.00224
B-T	mg/L	0.040	0.043	0.033	0.032	0.016	5	0.043	0.033	1.2		0.042
Bicarb	mg/L	42	39	41	37	26	5	42	37.0			41.6
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	13.5	12.2	10.6	11.1	7.36	5	13.5	10.95			12.98
Cr-T	mg/L	<0.00010	<0.00010	0.00011	0.0002	0.00012	5	0.0002	0.000106			0.000168
Co-T	mg/L	0.0000112	0.000013	0.0000088	0.000014	0.0000199	5	0.0000199	0.0000134	0.004	0.11	1.75E-05
Cu-T	mg/L	0.000448	0.000461	0.000378	0.00049	0.000542	5	0.000542	0.000464			0.000521
Hard-T	mg/L	40.1	36.7	32	33.7	22.7	5	40.1	33.0			38.7
Fe-T	mg/L	0.0359	0.0322	0.0413	0.0415	0.0467	5	0.0467	0.0395	*	1.0	0.0446
Pb-T	mg/L	<0.0000050	0.0000078	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000506	0.004	0.0176	9.12E-06
Mg-T	mg/L	1.54	1.52	1.32	1.46	1.05	5	1.54	1.38			1.53
Mn-T	mg/L	0.0185	0.0172	0.0252	0.0205	0.00586	5	0.0252	0.01745	0.737	0.8706	0.02332
Mo-T	mg/L	0.000174	0.000169	0.000159	0.000143	0.000170	5	0.000174	0.000163	7.6	46.0	0.000172
Ni-T	mg/L	0.000070	0.000079	0.000053	0.00012	0.000070	5	0.00012	0.000078	0.025		0.000104
K-T	mg/L	0.197	0.199	0.168	<0.25	0.130	5	0.199	0.164			0.198
S-T	mg/L	8.5	7.8	6.3	8.5	<3.0	5	8.5	6.52			8.5
Se-T	mg/L	0.000040	0.00004	<0.000040	0.000042	0.000048	5	0.000048	0.0000380	0.002		4.56E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06
Na-T	mg/L	10.4	10.1	8.84	7.12	2.88	5	10.4	7.87			10.28
Sr-T	mg/L	0.0650	0.0633	0.0456	0.0538	0.0253	5	0.0650	0.0506			0.0643
Zn-T	mg/L	0.00012	<0.00010	0.00018	<0.0010	0.00028	5	<0.0010	0.000226	0.0075	0.033	0.000412
Al-D	mg/L	0.00604	0.00663	0.00448	0.00901	0.0234	5	0.0234	0.00991			0.01764
As-D	mg/L	0.000198	0.000222	0.000172	0.000229	0.000200	5	0.000229	0.000204			0.000226
Ba-D	mg/L	0.00211	0.00214	0.00189	0.00235	0.00170	5	0.00235	0.00204			0.00227
B-D	mg/L	0.041	0.038	0.037	0.034	0.017	5	0.041	0.033			0.04
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	12.1	12.1	10.9	12.2	7.73	5	12.2	11.01			12.16
Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.00012	0.00012	5	0.00012	0.000088			0.00012
Co-D	mg/L	0.0000074	0.0000142	0.0000092	0.0000082	0.0000164	5	0.0000164	0.0000111			1.55E-05
Cu-D	mg/L	0.000433	0.000624	0.000432	0.000426	0.000555	5	0.000624	0.000494	*	*	0.000596
Hard-D	mg/L	36.2	36.3	32.8	36.8	23.4	5	36.8	33.1			36.6
DOC	mg/L	2.2	2.4	2	2.4	3.2	5	3.2	2.4			2.9
Fe-D	mg/L	0.0155	0.0146	0.0156	0.0193	0.0268	5	0.0268	0.0184			0.0238
Pb-D	mg/L	<0.0000050	0.0000255	<0.0000050	<0.0000050	<0.0000050	5	0.0000255	0.00000710			1.63E-05
Mg-D	mg/L	1.44	1.5	1.35	1.54	1.01	5	1.54	1.37			1.52
Mn-D	mg/L	0.00387	0.00487	0.0142	0.00997	0.00326	5	0.0142	0.00723	0.737	0.8706	0.01251
Mo-D	mg/L	0.000228	0.00091	0.000204	0.000226	0.000201	5	0.00091	0.000354			0.000637
Ni-D	mg/L	0.000083	0.000109	0.00007	0.000076	0.000061	5	0.000109	0.000080			9.90E-05
K-D	mg/L	0.197	0.233	0.183	0.192	0.129	5	0.233	0.187			0.219
S-D	mg/L	8.1	8.2	7	6.8	<3.0	5	8.2	6.32			8.16
Se-D	mg/L	0.000047	0.000057	0.000043	0.000045	0.000043	5	0.000057	0.000047			5.30E-05
Na-D	mg/L	9.89	9.79	8.48	7.45	2.73	5	9.89	7.67			9.85
Sr-D	mg/L	0.0611	0.0609	0.0538	0.0584	0.0261	5	0.0611	0.0521			0.061
Zn-D	mg/L	0.00168	0.00283	0.0009	0.0144	0.00136	5	0.0144	0.00423			0.00977
Notes: *Calculated guideline. See Exceedance Table.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E286930	Water Quality Guidelines										
StnName	Quinsam River Downstream 1											
StnCode	QRD51											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.71	7.77	7.62	7.52	7.86	5	7.86	7.70			7.82
Cond-F	uS/cm	259	144.5	129.7	129.5	65.9	5	259	145.7			213.2
SO4-D	mg/L	32	27	25	30	7.5	5	32	24.3	128	128	31.2
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	5	1.6	0.72			1.16
Alk-T	mg/L	37	38	36	29	22	5	38	32.4			37.6
Al-T	mg/L	<0.0030	0.0124	0.00738	0.0231	0.0373	5	0.0373	0.01634	*		0.03162
As-T	mg/L	<0.000020	0.000496	0.000436	0.000481	0.000296	5	0.000496	0.0003438	0.005		0.00049
Ba-T	mg/L	<0.000050	0.00251	0.00223	0.00312	0.00190	5	0.00312	0.0019570	1.00		0.002876
B-T	mg/L	<0.010	0.047	0.043	0.039	0.022	5	0.047	0.0312	1.2		0.0454
Bicarb	mg/L	45	47	44	36	27	5	47	39.8			46.2
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	<0.25	11.7	11.6	13	7.66	5	13	8.817			12.48
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	0.00012	0.00015	5	0.00015	0.000084			0.000138
Co-T	mg/L	<0.000010	0.000018	0.0000099	0.000028	0.0000299	5	0.0000299	0.0000182	0.004	0.11	2.91E-05
Cu-T	mg/L	<0.00010	0.00057	0.000399	0.00052	0.000642	5	0.000642	0.000436			0.000613
Hard-T	mg/L	<0.50	35.4	35.2	39.7	23.3	5	39.7	26.770			37.98
Fe-T	mg/L	<0.0050	0.0402	0.0361	0.0568	0.0569	5	0.0569	0.03850	*	1.0	0.05686
Pb-T	mg/L	<0.000020	<0.000020	<0.0000050	<0.000020	<0.0000050	5	<0.000020	0.00000700	0.004	0.0176	1.00E-05
Mg-T	mg/L	<0.25	1.52	1.49	1.73	1.01	5	1.73	1.175			1.646
Mn-T	mg/L	<0.00010	0.00755	0.00788	0.0126	0.00809	5	0.0126	0.007234	0.737	0.8706	0.010796
Mo-T	mg/L	<0.000050	0.000187	0.000163	0.000141	0.000188	5	0.000188	0.0001408	7.6	46.0	0.0001876
Ni-T	mg/L	<0.00010	0.00012	0.000066	0.00019	0.000083	5	0.00019	0.000102	0.025		0.000162
K-T	mg/L	<0.25	<0.25	0.215	<0.25	0.137	5	0.215	0.145			0.184
S-T	mg/L	<3.0	8.6	7.5	8.6	<3.0	5	8.6	5.54			8.6
Se-T	mg/L	<0.000040	0.000041	0.000043	<0.000040	0.000058	5	0.000058	0.0000364	0.002		5.20E-05
Ag-T	mg/L	<0.000010	<0.000010	<0.0000050	0.000010	<0.0000050	5	<0.000010	0.00000400	0.00005	0.0001	5.00E-06
Na-T	mg/L	<0.25	10.6	10.5	7.2	3.36	5	10.6	6.357			10.56
Sr-T	mg/L	<0.000050	0.0664	0.057	0.0695	0.0277	5	0.0695	0.0441250			0.06826
Zn-T	mg/L	<0.0010	<0.0010	0.00027	<0.0010	0.00027	5	<0.0010	0.00041	0.0075	0.033	0.0005
Al-D	mg/L	0.00424	0.00526	0.00442	0.0158	0.0237	5	0.0237	0.01068			0.02054
As-D	mg/L	0.000451	0.000494	0.00047	0.000459	0.000275	5	0.000494	0.000430			0.000484
Ba-D	mg/L	0.00291	0.00266	0.00252	0.00349	0.00188	5	0.00349	0.00269			0.00326
B-D	mg/L	0.050	0.046	0.048	0.043	0.019	5	0.050	0.041			0.049
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	14.3	12.8	12.6	14.6	7.59	5	14.6	12.38			14.48
Cr-D	mg/L	<0.00010	<0.00010	0.00011	0.00014	0.00016	5	0.00016	0.000102			0.000152
Co-D	mg/L	0.0000081	0.0000109	0.0000116	0.0000166	0.0000221	5	0.0000221	0.0000139			1.99E-05
Cu-D	mg/L	0.000414	0.000432	0.000494	0.000449	0.000585	5	0.000585	0.000475	*	*	0.000549
Hard-D	mg/L	43.1	38.6	37.9	44.6	23.4	5	44.6	37.5			44
DOC	mg/L	2.2	2.4	2.3	2.9	3.0	5	3.0	2.6			3
Fe-D	mg/L	0.0151	0.0149	0.0194	0.0287	0.0262	5	0.0287	0.0209			0.0277
Pb-D	mg/L	<0.0000050	0.0000527	<0.0000050	<0.0000050	0.0000058	5	0.0000527	0.00001320			3.39E-05
Mg-D	mg/L	1.76	1.6	1.59	1.98	1.08	5	1.98	1.60			1.89
Mn-D	mg/L	0.00213	0.00273	0.00331	0.00472	0.00287	5	0.00472	0.00315	0.737	0.8706	0.00416
Mo-D	mg/L	0.000199	0.000213	0.000223	0.00015	0.000241	5	0.000241	0.000205			0.000234
Ni-D	mg/L	0.000073	0.000074	0.000072	0.000094	0.000067	5	0.000094	0.000076			8.60E-05
K-D	mg/L	0.246	0.243	0.231	0.25	0.148	5	0.25	0.224			0.248
S-D	mg/L	10.2	8.8	9	9.3	<3.0	5	10.2	7.76			9.84
Se-D	mg/L	<0.000040	0.000046	0.000054	<0.000040	0.000052	5	0.000054	0.0000384			5.32E-05
Na-D	mg/L	11.3	11.4	10.6	8.03	3.39	5	11.4	8.94			11.36
Sr-D	mg/L	0.0814	0.0715	0.0689	0.0785	0.0277	5	0.0814	0.0656			0.0802
Zn-D	mg/L	0.00156	0.00073	0.00115	0.00028	0.00153	5	0.00156	0.00105			0.00155
Notes: *Calculated guideline. See Exceedance Table.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E292113	Water Quality Guidelines										
StnName	7 South Quinsam River											
StnCode	75QR											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.63	7.24	7.2	7.72	7.25	5	7.72	7.41			7.68
Cond-F	uS/cm	146.2	146.3	138.2	121.3	70.1	5	146.3	124.4			146.3
SO4-D	mg/L	34	27	25	28	7.6	5	34	24.3	128	128	31.6
TSS	mg/L	1.6	<1.0	<1.0	2.4	1.2	5	2.4	1.24			2.08
Alk-T	mg/L	38	37	36	29	22	5	38	32.4			37.6
Al-T	mg/L	0.0159	0.0123	0.0107	0.0764	0.0490	5	0.0764	0.0329	*		0.0654
As-T	mg/L	0.000565	0.000552	0.000456	0.000584	0.000340	5	0.000584	0.000499	0.005		0.000576
Ba-T	mg/L	0.00330	0.00292	0.00248	0.00347	0.00209	5	0.00347	0.00285	1.00		0.0034
B-T	mg/L	0.052	0.055	0.046	0.036	0.020	5	0.055	0.042	1.2		0.054
Bicarb	mg/L	46	46	44	35	27	5	46	39.6			46
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250			2.50E-06
Ca-T	mg/L	15.3	13.3	12	12.2	7.49	5	15.3	12.06			14.5
Cr-T	mg/L	<0.00010	<0.00010	0.00012	0.00024	0.00021	5	0.00024	0.000134			0.000228
Co-T	mg/L	0.0000255	0.0000198	0.0000147	0.000058	0.0000368	5	0.000058	0.0000310	0.004	0.11	4.95E-05
Cu-T	mg/L	0.000492	0.000456	0.000416	0.00076	0.000717	5	0.00076	0.000568			0.000743
Hard-T	mg/L	45.9	40	36.3	37.7	23.0	5	45.9	36.6			43.5
Fe-T	mg/L	0.0860	0.0818	0.0752	0.151	0.0872	5	0.151	0.0962	*	1.0	0.1255
Pb-T	mg/L	0.0000051	0.0000063	<0.0000050	<0.000020	0.0000090	5	<0.000020	0.00000658	0.004	0.0176	9.60E-06
Mg-T	mg/L	1.89	1.67	1.55	1.76	1.05	5	1.89	1.58			1.84
Mn-T	mg/L	0.00955	0.00797	0.00707	0.0124	0.00556	5	0.0124	0.00851	0.737	0.8706	0.01126
Mo-T	mg/L	0.000161	0.00018	0.000148	0.00015	0.000178	5	0.00018	0.000163	7.6	46.0	0.000179
Ni-T	mg/L	0.000086	0.000079	0.000058	0.00019	0.000115	5	0.00019	0.000106	0.025		0.00016
K-T	mg/L	0.251	0.237	0.221	0.25	0.151	5	0.251	0.222			0.251
S-T	mg/L	10.7	9.1	7.6	7.8	<3.0	5	10.7	7.34			10.06
Se-T	mg/L	0.000042	<0.000040	<0.000040	<0.000040	0.000056	5	0.000056	0.0000316	0.002		5.04E-05
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06
Na-T	mg/L	11.4	11.1	10.6	6.59	3.11	5	11.4	8.56			11.28
Sr-T	mg/L	0.0856	0.0715	0.058	0.0663	0.0286	5	0.0856	0.0620			0.08
Zn-T	mg/L	0.00036	0.00024	0.00019	<0.0010	0.00038	5	<0.0010	0.00033	0.0075	0.033	0.00045
Al-D	mg/L	0.00654	0.00535	0.00585	0.0277	0.0250	5	0.0277	0.01409			0.02662
As-D	mg/L	0.000512	0.000518	0.00049	0.000458	0.000296	5	0.000518	0.000455			0.000516
Ba-D	mg/L	0.00317	0.00287	0.00286	0.00346	0.00198	5	0.00346	0.00287			0.00334
B-D	mg/L	0.051	0.048	0.05	0.039	0.019	5	0.051	0.041			0.051
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	14.8	12.9	12.2	13.3	7.70	5	14.8	12.18			14.2
Cr-D	mg/L	<0.00010	<0.00010	0.00012	0.00013	0.00015	5	0.00015	0.000100			0.000142
Co-D	mg/L	0.0000182	0.0000176	0.0000145	0.000023	0.0000202	5	0.000023	0.0000187			2.19E-05
Cu-D	mg/L	0.000445	0.000464	0.000434	0.000546	0.000624	5	0.000624	0.000503	*	*	0.000593
Hard-D	mg/L	44.5	39.1	37.2	41.3	23.5	5	44.5	37.1			43.2
DOC	mg/L	2.3	2.4	2.1	3.7	3.4	5	3.7	2.8			3.6
Fe-D	mg/L	0.0443	0.052	0.0472	0.0563	0.0398	5	0.0563	0.0479			0.0546
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050	5	0.000005	0.00000300			4.00E-06
Mg-D	mg/L	1.82	1.66	1.67	1.95	1.04	5	1.95	1.63			1.9
Mn-D	mg/L	0.00749	0.00689	0.00653	0.00624	0.00282	5	0.00749	0.00599	0.737	0.8706	0.00725
Mo-D	mg/L	0.000193	0.000202	0.000218	0.000208	0.000190	5	0.000218	0.000202			0.000214
Ni-D	mg/L	0.000080	0.000077	0.000052	0.000099	0.000090	5	0.000099	0.000080			9.50E-05
K-D	mg/L	0.259	0.246	0.247	0.246	0.145	5	0.259	0.229			0.254
S-D	mg/L	20.1	8.7	9.1	8.4	<3.0	5	20.1	9.56			15.7
Se-D	mg/L	0.000050	0.000045	0.000042	0.000041	0.000048	5	0.000050	0.000045			4.90E-05
Na-D	mg/L	11.3	11.2	10.7	7.2	3.16	5	11.3	8.71			11.26
Sr-D	mg/L	0.0811	0.0703	0.0681	0.0736	0.0283	5	0.0811	0.0643			0.0781
Zn-D	mg/L	0.00073	0.00105	0.00089	0.00128	0.00074	5	0.00128	0.00094			0.00119

Notes: *Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E299256	Water Quality Guidelines										
StnName	Iron River & Quinsam River											
StnCode	IRQR											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.66	7.27	6.88	8.23	7.48	5	8.23	7.50			8
Cond-F	uS/cm	121.1	128.9	110.4	81.1	62.9	5	128.9	100.9			125.8
SO4-D	mg/L	21	20	16	16	6.3	5	21	15.9	128	128	20.6
TSS	mg/L	1.2	<1.0	<1.0	1.6	1.2	5	1.6	1.00			1.44
Alk-T	mg/L	35	38	35	25	23	5	38	31.2			36.8
Al-T	mg/L	0.0290	0.0177	0.0211	0.103	0.0601	5	0.103	0.0462	*		0.0858
As-T	mg/L	0.000813	0.000795	0.000762	0.000597	0.000445	5	0.000813	0.000682	0.005		0.000806
Ba-T	mg/L	0.00434	0.00381	0.0034	0.00391	0.00275	5	0.00434	0.00364	1.00		0.00417
B-T	mg/L	0.037	0.044	0.031	0.024	0.016	5	0.044	0.030	1.2		0.041
Bicarb	mg/L	43	46	43	30	28	5	46	38.0			44.8
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000069	<0.0000050	5	0.0000069	0.00000338			5.14E-06
Ca-T	mg/L	14.3	12.6	11.7	9.91	7.61	5	14.3	11.22			13.62
Cr-T	mg/L	0.00012	<0.00010	0.00015	0.00021	0.00017	5	0.00021	0.000140			0.000194
Co-T	mg/L	0.0000356	0.000022	0.0000192	0.000074	0.0000390	5	0.000074	0.0000380	0.004	0.11	6.00E-05
Cu-T	mg/L	0.000718	0.00058	0.000566	0.00085	0.000708	5	0.00085	0.000684			0.000797
Hard-T	mg/L	42.0	37.7	34.5	30	23.4	5	42.0	33.5			40.3
Fe-T	mg/L	0.0711	0.0714	0.0584	0.134	0.0710	5	0.134	0.0812	*	1.0	0.109
Pb-T	mg/L	0.0000060	<0.000020	<0.0000050	<0.000020	0.0000085	5	<0.000020	0.00000740	0.004	0.0176	1.00E-05
Mg-T	mg/L	1.53	1.49	1.27	1.28	1.05	5	1.53	1.32			1.51
Mn-T	mg/L	0.00654	0.00624	0.00458	0.00755	0.00433	5	0.00755	0.00585	0.737	0.8706	0.00715
Mo-T	mg/L	0.000167	0.0002	0.000145	0.000111	0.000146	5	0.0002	0.000154	7.6	46.0	0.000187
Ni-T	mg/L	0.000127	0.00011	0.000104	0.00024	0.000135	5	0.00024	0.000143	0.025		0.000198
K-T	mg/L	0.226	<0.25	0.184	<0.25	0.156	5	0.226	0.163			0.209
S-T	mg/L	6.7	6.7	4.4	4.7	<3.0	5	6.7	4.80			6.7
Se-T	mg/L	0.000096	0.000105	0.000114	0.000102	0.000091	5	0.000114	0.000102	0.002		0.00011
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.00005	0.0001	5.00E-06
Na-T	mg/L	7.52	8.33	6.36	4	2.82	5	8.33	5.81			8.01
Sr-T	mg/L	0.0656	0.0639	0.0476	0.0457	0.0290	5	0.0656	0.0504			0.0649
Zn-T	mg/L	<0.00010	<0.0010	0.00026	<0.0010	0.00038	5	<0.0010	0.000338	0.0075	0.033	0.0005
Al-D	mg/L	0.0184	0.0112	0.0175	0.0602	0.0342	5	0.0602	0.0283			0.0498
As-D	mg/L	0.000783	0.000765	0.000814	0.000558	0.000368	5	0.000814	0.000658			0.000802
Ba-D	mg/L	0.00418	0.00377	0.00403	0.00423	0.00244	5	0.00423	0.00373			0.00421
B-D	mg/L	0.039	0.039	0.037	0.026	0.017	5	0.039	0.032			0.039
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	5	<0.0000050	0.00000250	0.000087	0.00017	2.50E-06
Ca-D	mg/L	13.3	12.5	12.6	11.5	7.92	5	13.3	11.56			13.02
Cr-D	mg/L	0.00010	<0.00010	0.00015	0.00021	0.00015	5	0.00021	0.000132			0.000186
Co-D	mg/L	0.0000254	0.000021	0.0000203	0.0000347	0.0000233	5	0.0000347	0.0000249			3.10E-05
Cu-D	mg/L	0.000660	0.000542	0.000628	0.000751	0.000645	5	0.000751	0.000645	*	*	0.000715
Hard-D	mg/L	39.3	37.4	36.9	34.5	23.8	5	39.3	34.4			38.5
DOC	mg/L	3.2	2.7	2.8	4.9	3.6	5	4.9	3.4			4.4
Fe-D	mg/L	0.0411	0.0434	0.0409	0.0535	0.0357	5	0.0535	0.0429			0.0495
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000052	<0.0000050	5	0.0000052	0.00000304			4.12E-06
Mg-D	mg/L	1.49	1.49	1.35	1.44	0.971	5	1.49	1.348			1.49
Mn-D	mg/L	0.00477	0.00519	0.00385	0.0037	0.00210	5	0.00519	0.00392	0.737	0.8706	0.00502
Mo-D	mg/L	0.000176	0.000258	0.000205	0.000156	0.000186	5	0.000258	0.000196			0.000237
Ni-D	mg/L	0.000155	0.000096	0.000124	0.000174	0.000097	5	0.000174	0.000129			0.000166
K-D	mg/L	0.216	0.222	0.205	0.22	0.143	5	0.222	0.201			0.221
S-D	mg/L	6.2	6.5	5.3	4.9	<3.0	5	6.5	4.88			6.38
Se-D	mg/L	0.000112	0.000102	0.000132	0.000104	0.000085	5	0.000132	0.000107			0.000124
Na-D	mg/L	7.13	8.42	6.46	4.31	2.62	5	8.42	5.79			7.9
Sr-D	mg/L	0.0636	0.0614	0.0578	0.0515	0.0283	5	0.0636	0.0525			0.0627
Zn-D	mg/L	0.00102	0.00136	0.00123	0.00111	0.00122	5	0.00136	0.00119			0.00131
Notes: *Calculated guideline. See Exceedance Table.												
Bold indicates factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID	E297231	Water Quality Guidelines										
StnName	Iron River Upstream Site 6											
StnCode	IR6											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.75	7.52	7.47	7.57	7.5	5	7.75	7.56			7.68
Cond-F	uS/cm	70.7	86.8	78.5	53.3	53.9	5	86.8	68.6			83.5
SO4-D	mg/L	4.1	4.6	2.6	<1.0	<1.0	5	4.6	2.46	128	128	4.4
TSS	mg/L	1.2	<1.0	<1.0	1.2	2.0	5	2.0	1.08			1.68
Alk-T	mg/L	31	35	32	22	24	5	35	28.8			33.8
Al-T	mg/L	0.0613	0.0337	0.0441	0.148	0.0982	5	0.148	0.0771	*		0.1281
As-T	mg/L	0.000758	0.000877	0.000697	0.000543	0.000470	5	0.000877	0.000669	0.005		0.000829
Ba-T	mg/L	0.00515	0.00496	0.00383	0.00435	0.00386	5	0.00515	0.00443	1.00		0.00507
B-T	mg/L	0.014	0.013	0.011	<0.010	<0.010	5	0.014	0.0096	1.2		0.0136
Bicarb	mg/L	37	42	39	27	29	5	42	34.8			40.8
Cd-T	mg/L	0.0000112	0.0000087	0.0000081	0.0000087	0.0000133	5	0.0000133	0.0000100			1.25E-05
Ca-T	mg/L	12.4	12	11.3	8.08	8.37	5	12.4	10.43			12.24
Cr-T	mg/L	0.00022	0.00013	0.00021	0.00035	0.00025	5	0.00035	0.00023			0.00031
Co-T	mg/L	0.0000415	0.000026	0.0000281	0.000085	0.0000468	5	0.000085	0.0000455	0.004	0.11	6.97E-05
Cu-T	mg/L	0.000893	0.00065	0.000733	0.00094	0.000669	5	0.00094	0.000777			0.000921
Hard-T	mg/L	34.7	33.6	31.5	23.3	24.0	5	34.7	29.4			34.3
Fe-T	mg/L	0.0447	0.0217	0.0329	0.113	0.0591	5	0.113	0.0543	*	1.0	0.0914
Pb-T	mg/L	0.0000148	<0.000020	<0.0000050	<0.000020	0.0000078	5	0.0000148	0.00000902	0.004	0.0176	1.29E-05
Mg-T	mg/L	0.920	0.91	0.825	0.76	0.738	5	0.920	0.831			0.916
Mn-T	mg/L	0.00144	0.00071	0.000877	0.0028	0.00166	5	0.0028	0.001497	0.737	0.8706	0.002344
Mo-T	mg/L	0.000145	0.000139	0.000129	0.000076	0.000100	5	0.000145	0.000118	7.6	46.0	0.000143
Ni-T	mg/L	0.000233	0.00018	0.000174	0.00025	0.000199	5	0.00025	0.000207	0.025		0.000243
K-T	mg/L	0.175	<0.25	0.129	<0.25	0.146	5	0.175	0.140			0.163
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	0.000229	0.000234	0.00022	0.000167	0.000167	5	0.000234	0.000203	0.002		0.000232
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000350	0.00005	0.0001	5.00E-06
Na-T	mg/L	1.26	1.18	1.07	1.01	0.984	5	1.26	1.101			1.228
Sr-T	mg/L	0.0409	0.0422	0.0352	0.0288	0.0299	5	0.0422	0.0354			0.0417
Zn-T	mg/L	0.00041	<0.0010	0.00022	<0.0010	0.00060	5	0.00060	0.00045	0.0075	0.033	0.00056
Al-D	mg/L	0.0445	0.0335	0.0423	0.105	0.0774	5	0.105	0.0605			0.094
As-D	mg/L	0.000743	0.00096	0.00076	0.000491	0.000482	5	0.00096	0.000687			0.00088
Ba-D	mg/L	0.00492	0.00522	0.00451	0.00458	0.00400	5	0.00522	0.00465			0.0051
B-D	mg/L	0.016	0.015	0.014	<0.010	<0.010	5	0.016	0.0110			0.0156
Cd-D	mg/L	0.0000103	0.0000105	0.0000095	0.0000111	0.0000139	5	0.0000139	0.0000111	0.000087	0.00017	1.28E-05
Ca-D	mg/L	11.5	13.3	12.2	8.73	9.23	5	13.3	10.99			12.86
Cr-D	mg/L	0.00017	0.00014	0.00021	0.00028	0.00027	5	0.00028	0.00021			0.00028
Co-D	mg/L	0.0000423	0.0000275	0.0000327	0.0000454	0.0000376	5	0.0000454	0.0000371			4.42E-05
Cu-D	mg/L	0.000847	0.000689	0.000858	0.00078	0.000714	5	0.000858	0.000778	*	*	0.000854
Hard-D	mg/L	32.3	37.3	34.1	25.2	26.1	5	37.3	31.0			36
DOC	mg/L	4.5	3.6	4.5	6.2	5.0	5	6.2	4.8			5.7
Fe-D	mg/L	0.0322	0.0197	0.0243	0.0478	0.0310	5	0.0478	0.0310			0.0416
Pb-D	mg/L	0.0000053	<0.0000050	<0.0000050	0.0000053	<0.0000050	5	0.0000053	0.00000362			5.30E-06
Mg-D	mg/L	0.885	0.991	0.888	0.832	0.748	5	0.991	0.869			0.95
Mn-D	mg/L	0.000883	0.00058	0.000747	0.000965	0.000819	5	0.000965	0.000799	0.737	0.8706	0.000932
Mo-D	mg/L	0.000170	0.000182	0.000157	0.000102	0.000115	5	0.000182	0.000145			0.000177
Ni-D	mg/L	0.000222	0.000187	0.00021	0.000247	0.000222	5	0.000247	0.000218			0.000237
K-D	mg/L	0.160	0.151	0.148	0.177	0.153	5	0.177	0.158			0.17
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	0.000218	0.000269	0.000238	0.000182	0.000189	5	0.000269	0.000219			0.000257
Na-D	mg/L	1.17	1.29	1.09	1.04	1.01	5	1.29	1.12			1.24
Sr-D	mg/L	0.0394	0.0445	0.0421	0.0311	0.0314	5	0.0445	0.0377			0.0435
Zn-D	mg/L	0.00120	0.00033	0.00118	0.0107	0.00060	5	0.0107	0.00280			0.0069

Notes: *Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 48 Fall Rivers 9 Page(s)

EMS ID		E297232								Water Quality Guidelines			
StnName		Iron River Downstream Site 8											
StnCode		IR8											
Date	Unit	6-Oct-25	14-Oct-25	20-Oct-25	27-Oct-25	3-Nov-25	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.72	7.53	7.46	7.65	7.49	5	7.72	7.57			7.69	
Cond-F	uS/cm	71.4	87.4	79.5	50.7	53.3	5	87.4	68.5			84.2	
SO4-D	mg/L	3.9	4.7	2.6	<1.0	<1.0	5	4.7	2.44	128	128	4.38	
TSS	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	5	1.2	0.64			0.92	
Alk-T	mg/L	31	33	32	22	24	5	33	28.4			32.6	
Al-T	mg/L	0.0581	0.0328	0.0416	0.126	0.0928	5	0.126	0.0703	*		0.1127	
As-T	mg/L	0.00143	0.00209	0.00128	0.000568	0.000635	5	0.00209	0.001201	0.005		0.001826	
Ba-T	mg/L	0.00565	0.00584	0.00434	0.00409	0.00395	5	0.00584	0.00477	1.00		0.00576	
B-T	mg/L	0.014	0.02	0.011	<0.010	<0.010	5	0.02	0.0110	1.2		0.0176	
Bicarb	mg/L	38	40	39	26	29	5	40	34.4			39.6	
Cd-T	mg/L	0.0000112	0.0000094	0.0000057	0.0000107	0.0000122	5	0.0000122	0.0000098			1.18E-05	
Ca-T	mg/L	12.0	12.8	11.6	7.8	8.75	5	12.8	10.59			12.48	
Cr-T	mg/L	0.00019	0.00014	0.00021	0.00031	0.00018	5	0.00031	0.00021			0.00027	
Co-T	mg/L	0.0000446	0.0000276	0.0000266	0.000066	0.0000448	5	0.000066	0.0000419	0.004	0.11	5.75E-05	
Cu-T	mg/L	0.000902	0.000726	0.00074	0.00086	0.000679	5	0.000902	0.000781			0.000885	
Hard-T	mg/L	34.1	36.4	32.5	22.7	25.2	5	36.4	30.2			35.5	
Fe-T	mg/L	0.0438	0.0193	0.0296	0.0977	0.0500	5	0.0977	0.0481	*	1.0	0.0786	
Pb-T	mg/L	0.0000066	<0.0000050	<0.0000050	<0.000020	0.0000073	5	<0.000020	0.00000578	0.004	0.0176	8.92E-06	
Mg-T	mg/L	0.968	1.06	0.872	0.77	0.819	5	1.06	0.898			1.023	
Mn-T	mg/L	0.00145	0.000537	0.00102	0.00258	0.00166	5	0.00258	0.001449	0.737	0.8706	0.002212	
Mo-T	mg/L	0.000149	0.000204	0.000139	0.000097	0.000100	5	0.000204	0.000138	7.6	46.0	0.000182	
Ni-T	mg/L	0.000231	0.000178	0.000165	0.00022	0.000224	5	0.000231	0.000204	0.025		0.000228	
K-T	mg/L	0.168	0.153	0.133	<0.25	0.143	5	0.168	0.144			0.162	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	0.000219	0.00024	0.000209	0.00015	0.000159	5	0.00024	0.000195	0.002		0.000232	
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	5	<0.000010	0.00000300	0.00005	0.0001	4.00E-06	
Na-T	mg/L	1.33	1.46	1.17	1.05	1.12	5	1.46	1.23			1.41	
Sr-T	mg/L	0.0410	0.0462	0.0357	0.0268	0.0292	5	0.0462	0.0358			0.0441	
Zn-T	mg/L	0.00015	0.00078	0.00023	<0.0010	0.00025	5	0.00078	0.00038	0.0075	0.033	0.00067	
Al-D	mg/L	0.0457	0.0345	0.0405	0.0876	0.0692	5	0.0876	0.0555			0.0802	
As-D	mg/L	0.00135	0.00208	0.00141	0.000528	0.000628	5	0.00208	0.001199			0.001812	
Ba-D	mg/L	0.00561	0.00569	0.00506	0.004	0.00394	5	0.00569	0.00486			0.00566	
B-D	mg/L	0.016	0.015	0.015	<0.010	<0.010	5	0.016	0.0112			0.0156	
Cd-D	mg/L	0.0000088	0.0000089	0.0000101	0.0000078	0.0000108	5	0.0000108	0.0000093	0.000087	0.00017	1.05E-05	
Ca-D	mg/L	11.1	12.7	12.1	8.57	8.58	5	12.7	10.61			12.46	
Cr-D	mg/L	0.00019	0.00014	0.00024	0.00029	0.00025	5	0.00029	0.00022			0.00027	
Co-D	mg/L	0.0000366	0.0000301	0.0000334	0.000042	0.0000322	5	0.000042	0.0000349			3.98E-05	
Cu-D	mg/L	0.000893	0.000737	0.000859	0.000768	0.000693	5	0.000893	0.000790	*	*	0.000879	
Hard-D	mg/L	31.5	36	34.2	24.9	24.7	5	36	30.3			35.3	
DOC	mg/L	4.9	3.6	4.2	6.5	4.4	5	6.5	4.7			5.9	
Fe-D	mg/L	0.0320	0.0237	0.0246	0.04	0.0272	5	0.04	0.0295			0.0368	
Pb-D	mg/L	0.0000055	<0.0000050	<0.0000050	0.0000095	<0.0000050	5	0.0000095	0.00000450			7.90E-06	
Mg-D	mg/L	0.922	1.01	0.937	0.85	0.787	5	1.01	0.901			0.981	
Mn-D	mg/L	0.000941	0.000799	0.000768	0.000853	0.000630	5	0.000941	0.000798	0.737	0.8706	0.000906	
Mo-D	mg/L	0.000175	0.000175	0.000164	0.000094	0.000138	5	0.000175	0.000149			0.000175	
Ni-D	mg/L	0.000227	0.000195	0.000197	0.000214	0.000197	5	0.000227	0.000206			0.000222	
K-D	mg/L	0.171	0.15	0.151	0.159	0.141	5	0.171	0.154			0.166	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	0.000229	0.000241	0.000238	0.00015	0.000142	5	0.000241	0.000200			0.00024	
Na-D	mg/L	1.29	1.39	1.17	1.17	1.08	5	1.39	1.22			1.35	
Sr-D	mg/L	0.0393	0.0437	0.0434	0.029	0.0294	5	0.0437	0.0370			0.0436	
Zn-D	mg/L	0.00094	<0.00010	0.0003	0.00106	0.00071	5	0.00106	0.000612			0.001012	
Notes: *Calculated guideline. See Exceedance Table.													
Bold indicates factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.000118	0.000082	0.0328	0.0220	20.9	0.0250	0.0000050	0.00056	0.028	0.0130	0.00196	0.00061	20.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0157	0.0132	12	<0.050	<0.000010	0.00048	0.011	0.0060	<0.0010	<0.0010	14.5
	Maximum	0.00025	0.00017	0.115	0.0934	24	<0.050	<0.000010	0.00096	0.066	0.0395	0.0031	0.0014	23.2
	Geometric Mean	0.000102	0.000071	0.0282	0.0186	20.7	0.0250	0.0000050	0.00055	0.025	0.0114	0.00183	0.00057	20.4
	Count <DL	5	10	0	0	0	15	15	0	0	0	1	13	0
	Standard Deviation	0.000065	0.000049	0.0246	0.0201	3.1	0.0000	0.0000000	0.00012	0.015	0.0084	0.00065	0.00030	2.0
	1st Quartile	5.00E-05	5.00E-05	0.0217	0.0144	21	0.025	5.00E-06	0.0005	0.02	0.0082	0.0017	0.0005	20.2
	Median	0.00011	<0.00010	0.0233	0.0162	22	<0.050	<0.000010	0.00052	0.024	0.0117	0.0019	<0.0010	20.6
	3rd Quartile	0.00015	0.00012	0.0351	0.0181	23	0.025	5.00E-06	0.00054	0.032	0.0132	0.0023	0.0005	21.4
Mid Quinsam Lake Outlet WB E0900504	Average	0.00017	0.000156	0.0174	0.0137	40.0	0.0493	0.0000068	0.00049	0.040	0.0240	0.0087	0.0043	43.2
	Count	20	20	20	20	20	20	20	20	20	20	20	20	20
	Minimum	0.00010	<0.00010	0.0082	0.0058	29	<0.050	<0.000010	0.00032	0.029	0.0178	0.0042	0.0014	34.4
	Maximum	0.00026	0.00027	0.0321	0.0223	50	0.083	0.000041	0.00082	0.065	0.0432	0.0170	0.0096	63.7
	Geometric Mean	0.00016	0.000148	0.0164	0.0129	39.6	0.0451	0.0000056	0.00048	0.039	0.0235	0.0081	0.0040	42.8
	Count <DL	0	1	0	0	0	7	19	0	0	0	0	0	0
	Standard Deviation	0.00005	0.000048	0.0062	0.0043	6.2	0.0194	0.0000080	0.00011	0.010	0.0057	0.0034	0.0018	6.2
	1st Quartile	0.00012	0.00012	0.0142	0.0121	35.8	0.025	5.00E-06	0.00045	0.034	0.0211	0.007	0.0032	41
	Median	0.00016	0.000165	0.0159	0.0137	38.5	0.057	5.00E-06	0.00047	0.036	0.0228	0.0079	0.0039	42.2
	3rd Quartile	0.00021	0.000175	0.0197	0.0165	44.8	0.063	5.00E-06	0.00051	0.043	0.0241	0.0102	0.0054	45
Quinsam River Downstream 1 QRDS1 E286930	Average	0.00059	0.00055	0.0232	0.0151	40.9	0.0607	0.0000050	0.00049	0.054	0.0298	0.0091	0.0041	43.2
	Count	19	19	19	19	18	19	19	19	19	19	19	19	19
	Minimum	0.00022	0.00021	0.0085	0.0051	24	<0.050	<0.000010	0.00032	0.036	0.0173	0.0047	0.0012	34.4
	Maximum	0.00110	0.00100	0.0849	0.0560	52	0.086	<0.000010	0.00072	0.093	0.0537	0.0152	0.0091	50.5
	Geometric Mean	0.00052	0.00048	0.0205	0.0128	40.4	0.0592	0.0000050	0.00048	0.052	0.0280	0.0086	0.0033	43.0
	Count <DL	0	0	0	0	0	2	19	0	0	0	0	0	0
	Standard Deviation	0.00029	0.00028	0.0159	0.0110	6.3	0.0123	0.0000000	0.00010	0.013	0.0112	0.0033	0.0028	3.9
	1st Quartile	0.00038	0.00032	0.0176	0.0111	37.5	0.056	5.00E-06	0.00042	0.046	0.0197	0.0062	0.002	41.3
	Median	0.00048	0.00042	0.0204	0.012	42	0.061	<0.000010	0.00044	0.051	0.0308	0.0095	0.0029	43.1
	3rd Quartile	0.00078	0.00079	0.022	0.0168	44.5	0.068	5.00E-06	0.00054	0.059	0.0358	0.0112	0.0058	45.1
7 South Quinsam River 7SQR E292113	Average	0.00062	0.00055	0.0316	0.0143	41.5	0.0618	0.0000050	0.00047	0.106	0.0562	0.0089	0.0064	43.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00031	0.00030	0.0150	0.0065	25	<0.050	<0.000010	0.00039	0.084	0.0418	0.0065	0.0052	36.5
	Maximum	0.00098	0.00090	0.127	0.0507	51	0.089	<0.000010	0.00076	0.188	0.0773	0.0110	0.0080	50.4
	Geometric Mean	0.00058	0.00051	0.0270	0.0122	40.9	0.0586	0.0000050	0.00046	0.104	0.0554	0.0088	0.0064	43.5
	Count <DL	0	0	0	0	0	2	15	0	0	0	0	0	0
	Standard Deviation	0.00024	0.00023	0.0269	0.0111	6.5	0.0174	0.0000000	0.00010	0.025	0.0096	0.0014	0.0009	3.8
	1st Quartile	0.00045	0.00036	0.0223	0.0096	38	0.0585	5.00E-06	0.00041	0.092	0.0476	0.0084	0.0059	41.6
	Median	0.00055	0.00049	0.026	0.0113	43	0.066	<0.000010	0.00045	0.104	0.0562	0.009	0.0064	43.2
	3rd Quartile	0.00086	0.00078	0.0278	0.0123	45	0.07	5.00E-06	0.00047	0.109	0.0606	0.0098	0.007	45.9
Iron River & Quinsam River IRQR E299256	Average	0.00071	0.00063	0.0495	0.0257	38.7	0.0481	0.0000065	0.00055	0.101	0.0500	0.0072	0.0052	39.4
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00053	0.00035	0.0198	0.0094	21	<0.050	<0.000010	0.00040	0.069	0.0406	0.0042	0.0029	28.6
	Maximum	0.00104	0.00097	0.261	0.0868	51	<0.25	0.000022	0.00091	0.348	0.0812	0.0117	0.0101	50.8
	Geometric Mean	0.00070	0.00061	0.0364	0.0207	38.0	0.0400	0.0000058	0.00054	0.091	0.0491	0.0068	0.0049	39.0
	Count <DL	0	0	0	0	0	10	13	0	0	0	0	0	0
	Standard Deviation	0.00015	0.00017	0.0604	0.0204	7.2	0.0321	0.0000045	0.00013	0.069	0.0105	0.0026	0.0021	5.6
	1st Quartile	0.00062	0.00053	0.0232	0.0132	35	0.025	5.00E-06	0.00046	0.076	0.0442	0.0052	0.0036	36.3
	Median	0.0007	0.00062	0.026	0.0171	38	<0.050	<0.000010	0.00056	0.084	0.0471	0.0064	0.0045	38.9
	3rd Quartile	0.00076	0.00069	0.046	0.0309	43.5	0.071	5.00E-06	0.00059	0.094	0.0514	0.0094	0.0065	43.1

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.733	0.00086	0.00050	7.35	0.000100	0.000100	1.50	2.11	0.000050	0.00250	0.00250	0.00252	0.0100	0.0213
	Count	15	15	15	15	15	15	15	14	15	15	15	10	10	10
	Minimum	0.642	<0.0010	<0.0010	6.73	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	1.07	0.0059	<0.0010	8.21	<0.00020	<0.00020	<3.0	8.8	<0.00010	<0.0050	<0.0050	0.0071	<0.020	0.092
	Geometric Mean	0.725	0.00059	0.00050	7.34	0.000100	0.000100	1.50	1.66	0.000050	0.00250	0.00250	0.00202	0.0100	0.0119
	Count <DL	0	14	15	0	15	15	15	2	15	15	15	8	10	8
	Standard Deviation	0.121	0.00139	0.00000	0.39	0.000000	0.000000	0.00	2.00	0.000000	0.00000	0.00000	0.00216	0.0000	0.0300
	1st Quartile	0.659	0.0005	0.0005	7.12	0.0001	0.0001	1.5	1.45	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	0.678	<0.0010	<0.0010	7.36	<0.00020	<0.00020	<3.0	1.75	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	3rd Quartile	0.764	0.0005	0.0005	7.5	0.0001	0.0001	1.5	1.9	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
Mid Quinsam Lake Outlet WB E0900504	Average	17.04	0.00062	0.00050	7.58	0.000100	0.000100	13.6	45.4	0.000050	0.00270	0.00250	0.00150	0.0111	0.0249
	Count	20	20	20	20	20	20	20	20	20	20	20	11	12	11
	Minimum	8.73	<0.0010	<0.0010	6.9	<0.00020	<0.00020	8.2	29	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	29.7	0.0028	<0.0010	8.18	<0.00020	<0.00020	19.3	60	<0.00010	0.0065	<0.0050	<0.0030	0.023	0.14
	Geometric Mean	16.35	0.00054	0.00050	7.57	0.000100	0.000100	13.3	44.4	0.000050	0.00262	0.00250	0.00150	0.0107	0.0131
	Count <DL	0	19	20	0	20	20	0	0	20	19	20	11	11	8
	Standard Deviation	5.01	0.00051	0.00000	0.32	0.000000	0.000000	3.1	9.6	0.000000	0.00089	0.00000	0.00000	0.0038	0.0400
	1st Quartile	13.68	0.0005	0.0005	7.4	0.0001	0.0001	12.1	39.8	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	16.35	0.0005	0.0005	7.6	0.0001	0.0001	13.8	45	5.00E-05	0.0025	0.0025	<0.0030	0.01	<0.015
	3rd Quartile	20.2	0.0005	0.0005	7.78	0.0001	0.0001	15.4	54	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0213
Quinsam River Downstream 1 QRDS1 E286930	Average	18.52	0.00053	0.00050	7.58	0.000105	0.000100	13.9	44.7	0.000050	0.00263	0.00250	0.00150	0.0114	0.0230
	Count	19	19	19	20	19	19	19	18	19	19	19	10	11	10
	Minimum	7.73	<0.0010	<0.0010	7.09	<0.00020	<0.00020	9.1	29	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	30.7	<0.0020	<0.0010	8.28	<0.00040	<0.00020	19.4	60	<0.00010	<0.010	<0.0050	<0.0030	0.025	0.10
	Geometric Mean	17.87	0.00052	0.00050	7.57	0.000104	0.000100	13.7	43.7	0.000050	0.00259	0.00250	0.00150	0.0109	0.0132
	Count <DL	0	19	19	0	19	19	0	0	19	19	19	10	10	7
	Standard Deviation	4.86	0.00011	0.00000	0.28	0.000023	0.000000	2.6	9.7	0.000000	0.00057	0.00000	0.00000	0.0045	0.0311
	1st Quartile	15.6	0.0005	0.0005	7.4	0.0001	0.0001	12	36.2	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	17.8	<0.0010	<0.0010	7.57	<0.00020	<0.00020	14.1	45.5	<0.00010	<0.0050	<0.0050	0.0015	<0.020	0.0075
	3rd Quartile	21.35	0.0005	0.0005	7.67	0.0001	0.0001	15.4	53.8	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0184
7 South Quinsam River 75QR E292113	Average	19.09	0.00130	0.00050	7.35	0.000100	0.000100	14.2	47.6	0.000050	0.00271	0.00250	0.00168	0.0218	0.0340
	Count	15	15	15	15	15	15	15	15	15	15	15	10	10	10
	Minimum	7.62	<0.0010	<0.0010	6.67	<0.00020	<0.00020	9.0	34	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	30.8	0.0099	<0.0010	8.15	<0.00020	<0.00020	20.0	62	<0.00010	0.0057	<0.0050	0.0033	0.128	0.17
	Geometric Mean	18.24	0.00069	0.00050	7.34	0.000100	0.000100	14.0	47.0	0.000050	0.00264	0.00250	0.00162	0.0129	0.0134
	Count <DL	0	13	15	0	15	15	0	0	15	14	15	9	9	8
	Standard Deviation	5.53	0.00247	0.00000	0.38	0.000000	0.000000	2.9	7.6	0.000000	0.00083	0.00000	0.00057	0.0373	0.0576
	1st Quartile	15.05	0.0005	0.0005	7.2	0.0001	0.0001	12.2	42.5	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	19.8	<0.0010	<0.0010	7.26	<0.00020	<0.00020	14.4	46	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	3rd Quartile	22.15	0.0005	0.0005	7.36	0.0001	0.0001	16	52	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
Iron River & Quinsam River IRQR E299256	Average	14.45	0.00149	0.00050	7.39	0.000127	0.000100	10.5	36.5	0.000070	0.00355	0.00250	0.00214	0.0169	0.0390
	Count	15	15	15	15	15	15	15	15	15	15	15	10	10	10
	Minimum	3.78	<0.0010	<0.0010	6.81	<0.00020	<0.00020	3.3	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	29.6	0.0070	<0.0010	8.06	<0.0010	<0.00020	19.6	63	0.00012	<0.025	<0.0050	0.0049	0.040	0.19
	Geometric Mean	12.72	0.00079	0.00050	7.38	0.000111	0.000100	9.6	33.6	0.000065	0.00301	0.00250	0.00188	0.0141	0.0139
	Count <DL	0	13	15	0	15	15	0	0	10	14	15	8	7	8
	Standard Deviation	7.39	0.00226	0.00000	0.38	0.000103	0.000000	4.6	15.5	0.000030	0.00289	0.00000	0.00135	0.0122	0.0674
	1st Quartile	9.62	0.0005	0.0005	7.22	0.0001	0.0001	8.2	25.5	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	11.6	<0.0010	<0.0010	7.28	<0.00020	<0.00020	8.9	29	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	3rd Quartile	21.55	0.0005	0.0005	7.43	0.0001	0.0001	14.9	49.5	0.000105	0.0025	0.0025	0.0015	0.0183	0.0075

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake Outlet NNO E217017	Average	0.00030	0.00028	0.0293	0.0222	14.8	0.0250	0.0000050	0.00041	0.086	0.0531	0.0273	0.0241	15.5
	Count	13	13	13	13	13	13	13	13	13	13	13	13	13
	Minimum	0.00020	0.00018	0.0124	0.0072	10	<0.050	<0.000010	0.00032	0.045	0.0272	0.0033	0.0020	11.9
	Maximum	0.00048	0.00040	0.0703	0.0570	26	<0.050	<0.000010	0.00067	0.158	0.0890	0.158	0.143	24.8
	Geometric Mean	0.00029	0.00027	0.0248	0.0183	14.2	0.0250	0.0000050	0.00040	0.079	0.0496	0.0094	0.0063	15.1
	Count <DL	0	0	0	0	0	13	13	0	0	0	0	0	0
	Standard Deviation	0.00010	0.00007	0.0185	0.0148	4.8	0.0000	0.0000000	0.00011	0.038	0.0205	0.0485	0.0443	4.1
	1st Quartile	0.00022	0.00023	0.015	0.0101	12	<0.050	<0.000010	0.00033	0.055	0.0392	0.0045	0.0025	12.8
	Median	0.00028	0.00028	0.0259	0.0201	12	<0.050	<0.000010	0.00038	0.065	0.0462	0.0047	0.0032	13.7
	3rd Quartile	0.00034	0.0003	0.0324	0.0262	15	<0.050	<0.000010	0.00044	0.1	0.0746	0.0075	0.0051	16.1
Long Lake Outlet LLO E219412	Average	0.00038	0.00033	0.0224	0.01219	33.5	0.0487	0.0000050	0.00034	0.055	0.02297	0.0179	0.0087	72.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00028	0.00022	0.0066	<0.0030	21	<0.050	<0.000010	0.00023	0.016	<0.0050	0.0029	0.0013	44.0
	Maximum	0.00051	0.00050	0.0673	0.0431	46	0.076	<0.000010	0.00069	0.154	0.0650	0.0658	0.0294	102
	Geometric Mean	0.00037	0.00033	0.0168	0.00806	32.7	0.0439	0.0000050	0.00033	0.043	0.01360	0.0131	0.0062	69.9
	Count <DL	0	0	0	1	0	6	15	0	0	3	0	0	0
	Standard Deviation	0.00008	0.00007	0.0183	0.01145	7.5	0.0211	0.0000000	0.00013	0.039	0.02031	0.0166	0.0074	18.5
	1st Quartile	0.0003	0.00028	0.0086	0.004	26.5	0.025	5.00E-06	0.00026	0.021	0.0065	0.0096	0.0046	55.6
	Median	0.00035	0.00032	0.0197	0.0048	35	0.057	<0.000010	0.00029	0.056	0.0095	0.0106	0.0067	75.8
	3rd Quartile	0.00046	0.00037	0.0264	0.01805	37	0.0635	5.00E-06	0.00036	0.069	0.0378	0.0197	0.0112	81.4
Iron River Site 6 IR6 E297231	Average	0.00435	0.00435	0.0643	0.0380	46.9	0.0315	0.0000111	0.00061	0.0577	0.01588	0.00221	0.00063	49.9
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00060	0.00035	0.0153	0.0138	17	<0.050	<0.000010	0.00043	<0.010	<0.0050	<0.0010	<0.0010	20.7
	Maximum	0.0117	0.0119	0.348	0.125	75	0.062	0.000016	0.00091	0.429	0.0536	0.0113	0.0018	80.1
	Geometric Mean	0.00237	0.00222	0.0351	0.0283	41.9	0.0295	0.0000104	0.00058	0.0158	0.00815	0.00135	0.00057	44.4
	Count <DL	0	0	0	0	0	8	2	0	5	5	2	9	0
	Standard Deviation	0.00411	0.00420	0.1018	0.0348	21.9	0.0139	0.0000037	0.00017	0.1312	0.01728	0.00325	0.00041	23.9
	1st Quartile	0.00076	0.00068	0.016	0.0144	32	0.025	1.00E-05	0.00046	0.005	0.0025	0.00103	0.0005	29.2
	Median	0.00348	0.00355	0.0284	0.0256	42	0.025	1.25E-05	0.00056	0.0115	0.00945	0.00115	0.0005	47.2
	3rd Quartile	0.007	0.00703	0.0595	0.0497	66.2	0.025	1.30E-05	0.00072	0.0342	0.02555	0.00138	0.0005	70
Iron River Site 8 IR8 E297232	Average	0.00839	0.00831	0.0544	0.0358	48.5	0.0455	0.0000166	0.00071	0.0440	0.0196	0.00208	0.00091	51.7
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00063	0.00039	0.0131	0.0132	16	<0.050	<0.000010	0.00051	<0.010	0.0083	<0.0010	<0.0010	20.7
	Maximum	0.0200	0.0200	0.264	0.112	80	0.091	0.000066	0.00096	0.256	0.0509	0.0088	0.0022	84.8
	Geometric Mean	0.00418	0.00392	0.0329	0.0276	42.7	0.0402	0.0000129	0.00069	0.0228	0.0165	0.00149	0.00077	45.7
	Count <DL	0	0	0	0	0	5	1	0	1	0	1	6	0
	Standard Deviation	0.00782	0.00786	0.0760	0.0307	23.9	0.0240	0.0000175	0.00015	0.0753	0.0133	0.00244	0.00060	25.5
	1st Quartile	0.00122	0.00119	0.0158	0.0144	29.8	0.025	1.05E-05	0.00058	0.013	0.0099	0.00113	0.0005	29.6
	Median	0.00706	0.00693	0.0288	0.0263	44.5	0.0385	1.20E-05	0.00068	0.0195	0.0163	0.00125	0.0005	48.7
	3rd Quartile	0.01483	0.01455	0.0543	0.0472	68.5	0.059	1.28E-05	0.00082	0.032	0.024	0.00138	0.00125	71.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake Outlet NNO E217017	Average	1.22	0.00050	0.00050	7.28	0.000100	0.000100	1.50	2.6	0.000050	0.00250	0.00250	0.00290	0.0386	0.0084
	Count	13	13	13	13	13	13	13	13	13	13	13	8	8	8
	Minimum	1.01	<0.0010	<0.0010	6.51	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	1.76	<0.0010	<0.0010	8.31	<0.00020	<0.00020	<3.0	3.5	<0.00010	<0.0050	<0.0050	0.0069	0.130	0.015
	Geometric Mean	1.21	0.00050	0.00050	7.27	0.000100	0.000100	1.50	2.5	0.000050	0.00250	0.00250	0.00235	0.0234	0.0082
	Count <DL	0	13	13	0	13	13	0	13	13	13	13	5	4	7
	Standard Deviation	0.22	0.00000	0.00000	0.49	0.000000	0.000000	0.00	0.7	0.000000	0.00000	0.00000	0.00218	0.0440	0.0027
	1st Quartile	1.05	<0.0010	<0.0010	6.94	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	Median	1.2	<0.0010	<0.0010	7.21	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	0.0015	0.0175	0.0075
	3rd Quartile	1.25	<0.0010	<0.0010	7.49	<0.00020	<0.00020	<3.0	3.3	<0.00010	<0.0050	<0.0050	0.0038	0.0455	0.0075
Long Lake Outlet LLO E219412	Average	7.56	0.00056	0.00053	7.28	0.000100	0.000100	18.8	60.6	0.000050	0.00250	0.00250	0.00165	0.1182	0.0368
	Count	15	15	15	15	15	15	15	15	15	15	15	10	10	10
	Minimum	4.23	<0.0010	<0.0010	6.68	<0.00020	<0.00020	10.8	36	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	10.5	0.0014	0.0010	8.03	<0.00020	<0.00020	27.4	87	<0.00010	<0.0050	<0.0050	0.0030	0.329	0.18
	Geometric Mean	7.32	0.00054	0.00052	7.27	0.000100	0.000100	18.0	58.6	0.000050	0.00250	0.00250	0.00161	0.0458	0.0159
	Count <DL	0	14	14	0	15	15	0	0	15	15	15	9	5	7
	Standard Deviation	1.92	0.00023	0.00013	0.42	0.000000	0.000000	5.5	15.8	0.000000	0.00000	0.00000	0.00047	0.1294	0.0564
	1st Quartile	5.94	0.0005	0.0005	7.04	0.0001	0.0001	14	47	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	7.9	<0.0010	<0.0010	7.15	<0.00020	<0.00020	18.7	65	<0.00010	<0.0050	<0.0050	0.0015	0.0595	0.0075
	3rd Quartile	8.56	0.0005	0.0005	7.56	0.0001	0.0001	21.7	70	5.00E-05	0.0025	0.0025	0.0015	0.218	0.0439
Iron River Site 6 IR6 E297231	Average	2.124	0.00050	0.00050	7.24	0.000100	0.000100	2.21	8.6	0.00020	0.00250	0.00250	0.00188	0.047	0.0665
	Count	10	10	10	10	10	10	10	10	10	10	10	5	5	5
	Minimum	0.855	<0.0010	<0.0010	6.77	<0.00020	<0.00020	<3.0	1.5	0.00013	<0.0050	<0.0050	<0.0030	0.026	<0.015
	Maximum	3.78	<0.0010	<0.0010	7.46	<0.00020	<0.00020	4.0	16	0.00027	<0.0050	<0.0050	0.0034	0.061	0.16
	Geometric Mean	1.839	0.00050	0.00050	7.24	0.000100	0.000100	1.99	7.2	0.00019	0.00250	0.00250	0.00177	0.044	0.0252
	Count <DL	0	10	10	0	10	10	7	0	0	10	10	4	0	3
	Standard Deviation	1.138	0.00000	0.00000	0.22	0.000000	0.000000	1.15	4.6	0.00005	0.00000	0.00000	0.00085	0.017	0.0809
	1st Quartile	1.135	0.0005	0.0005	7.22	0.0001	0.0001	1.5	5.7	0.00016	0.0025	0.0025	<0.0030	0.03	<0.015
	Median	1.945	0.0005	0.0005	7.3	0.0001	0.0001	1.5	7.8	0.00018	0.0025	0.0025	<0.0030	0.057	<0.015
	3rd Quartile	3.065	0.0005	0.0005	7.38	0.0001	0.0001	3.15	12	0.00022	0.0025	0.0025	<0.0030	0.06	0.15
Iron River Site 8 IR8 E297232	Average	2.980	0.00050	0.00050	7.38	0.000100	0.000100	2.17	8.4	0.00017	0.00250	0.00250	0.00150	0.0314	0.0429
	Count	10	10	10	10	10	10	10	10	10	10	10	5	5	5
	Minimum	0.953	<0.0010	<0.0010	7.04	<0.00020	<0.00020	<3.0	1.0	0.00012	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	6.37	<0.0010	<0.0010	7.65	<0.00020	<0.00020	4.1	16	0.00023	<0.0050	<0.0050	<0.0030	0.057	0.11
	Geometric Mean	2.350	0.00050	0.00050	7.38	0.000100	0.000100	1.97	6.8	0.00016	0.00250	0.00250	0.00150	0.0243	0.0207
	Count <DL	0	10	10	0	10	10	7	0	0	10	10	5	2	3
	Standard Deviation	2.013	0.00000	0.00000	0.19	0.000000	0.000000	1.11	4.6	0.00005	0.00000	0.00000	0.00000	0.0219	0.0495
	1st Quartile	1.235	0.0005	0.0005	7.27	0.0001	0.0001	1.5	5.2	0.00013	0.0025	0.0025	<0.0030	<0.020	<0.015
	Median	2.57	0.0005	0.0005	7.42	0.0001	0.0001	1.5	7.8	0.00016	0.0025	0.0025	<0.0030	0.03	<0.015
	3rd Quartile	4.325	0.0005	0.0005	7.51	0.0001	0.0001	2.7	11.8	0.00021	0.0025	0.0025	<0.0030	0.05	0.082

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Middle Quinsam Lake 1M MQL1 E206618	Average	0.00015	0.000128	0.0143	0.0121	41.3	0.0562	0.0000090	0.00044	0.039	0.0235	0.0075	0.00219	40.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00010	<0.00010	0.0091	0.0069	28	<0.050	<0.000010	0.00036	0.027	0.0190	0.0045	<0.0010	34.9
	Maximum	0.00024	0.00020	0.0216	0.0176	51	0.073	0.000065	0.00053	0.054	0.0304	0.0114	0.0049	44.5
	Geometric Mean	0.00015	0.000114	0.0139	0.0117	40.8	0.0528	0.0000059	0.00044	0.039	0.0232	0.0072	0.00177	40.6
	Count <DL	0	4	0	0	0	3	14	0	0	0	0	2	0
	Standard Deviation	0.00004	0.000055	0.0033	0.0032	6.6	0.0173	0.0000155	0.00005	0.008	0.0036	0.0022	0.00142	2.9
	1st Quartile	0.00012	8.00E-05	0.0136	0.0109	37	0.056	5.00E-06	0.00041	0.03	0.0202	0.0061	0.00125	39.1
	Median	0.00016	0.00014	0.0143	0.0125	43	0.058	<0.000010	0.00046	0.04	0.0237	0.0073	0.0016	41.1
	3rd Quartile	0.00018	0.00017	0.0154	0.0134	45.5	0.0695	5.00E-06	0.00047	0.044	0.025	0.0085	0.0027	43.3
Middle Quinsam Lake 4M MQL4 E206618	Average	0.000147	0.000126	0.0141	0.0114	41.5	0.0559	0.0000050	0.00044	0.060	0.0240	0.0077	0.00239	40.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0089	0.0065	28	<0.050	<0.000010	0.00035	0.025	0.0164	0.0041	<0.0010	34.1
	Maximum	0.00023	0.00020	0.0213	0.0160	50	0.074	<0.000010	0.00050	0.322	0.0415	0.0126	0.0103	45.7
	Geometric Mean	0.000139	0.000113	0.0138	0.0111	40.9	0.0525	0.0000050	0.00043	0.046	0.0232	0.0073	0.00159	40.4
	Count <DL	1	4	0	0	0	3	15	0	0	0	0	4	0
	Standard Deviation	0.000046	0.000053	0.0033	0.0027	6.8	0.0171	0.0000000	0.00004	0.073	0.0066	0.0024	0.00254	3.2
	1st Quartile	0.000115	8.00E-05	0.0132	0.0107	37	0.055	5.00E-06	0.00042	0.034	0.0195	0.0061	0.0008	38.7
	Median	0.00015	0.00014	0.0141	0.012	42	0.06	<0.000010	0.00044	0.043	0.0223	0.0076	0.0016	41.2
	3rd Quartile	0.00017	0.000165	0.0154	0.0128	47	0.067	5.00E-06	0.00046	0.048	0.0272	0.0086	0.00265	42.8
Middle Quinsam Lake 9M MQL9 E206618	Average	0.000138	0.000112	0.0132	0.0104	38.4	0.0465	0.0000050	0.00044	0.035	0.0186	0.0067	0.00111	38.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0084	0.0066	28	<0.050	<0.000010	0.00037	0.018	0.0094	0.0023	<0.0010	32.8
	Maximum	0.00021	0.00017	0.0218	0.0163	50	0.066	<0.000010	0.00048	0.058	0.0308	0.0103	0.0026	43.5
	Geometric Mean	0.000131	0.000100	0.0128	0.0102	37.8	0.0426	0.0000050	0.00044	0.033	0.0174	0.0062	0.00094	38.5
	Count <DL	1	5	0	0	0	6	15	0	0	0	0	6	0
	Standard Deviation	0.000042	0.000050	0.0037	0.0026	6.9	0.0183	0.0000000	0.00004	0.012	0.0069	0.0026	0.00070	3.3
	1st Quartile	0.000115	5.00E-05	0.0106	0.0094	32	0.025	5.00E-06	0.00042	0.028	0.0137	0.0048	0.0005	36
	Median	0.00014	0.00012	0.0121	0.0108	38	0.058	<0.000010	0.00044	0.034	0.0169	0.0076	0.0011	38.6
	3rd Quartile	0.00016	0.00016	0.0146	0.0117	44	0.0605	5.00E-06	0.00047	0.041	0.0226	0.0084	0.00135	41.4
Middle Quinsam Lake 1MB MQLB E206618	Average	0.000111	0.000095	0.0115	0.0085	36.7	0.0366	0.0000050	0.00043	0.032	0.0170	0.0069	0.00255	37.3
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0054	0.0044	28	<0.050	<0.000010	0.00035	0.019	0.0097	0.0025	<0.0010	33.7
	Maximum	0.00015	0.00017	0.0224	0.0159	47	0.063	<0.000010	0.00048	0.055	0.0309	0.0098	0.0057	39.7
	Geometric Mean	0.000104	0.000084	0.0106	0.0079	36.3	0.0334	0.0000050	0.00043	0.030	0.0155	0.0063	0.00181	37.3
	Count <DL	3	7	0	0	0	10	15	0	0	0	0	4	0
	Standard Deviation	0.000037	0.000048	0.0051	0.0033	5.7	0.0170	0.0000000	0.00003	0.012	0.0080	0.0026	0.00190	2.1
	1st Quartile	0.0001	5.00E-05	0.0074	0.0062	32.5	0.025	5.00E-06	0.0004	0.024	0.0108	0.0047	0.00085	35.3
	Median	0.00011	0.0001	0.0091	0.0072	37	<0.050	<0.000010	0.00043	0.029	0.0132	0.0076	0.0017	37.7
	3rd Quartile	0.000145	0.000125	0.0145	0.0108	39	0.0575	5.00E-06	0.00046	0.04	0.0248	0.009	0.0042	39.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Middle Quinsam Lake 1M MQL1 E206618	Average	18.15	0.00050	0.00050	7.56	0.000100	0.000100	13.3	43.6	0.000050	0.00250	0.00250	0.00197	0.0283	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	9.47	<0.0010	<0.0010	6.99	<0.00020	<0.00020	8.2	28	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	22.2	<0.0010	<0.0010	8.12	<0.00020	<0.00020	15.9	52	<0.00010	<0.0050	<0.0050	0.0086	0.155	
	Geometric Mean	17.66	0.00050	0.00050	7.55	0.000100	0.000100	13.1	42.8	0.000050	0.00250	0.00250	0.00169	0.0171	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	14	10	
	Standard Deviation	3.91	0.00000	0.00000	0.40	0.000000	0.000000	2.3	8.2	0.000000	0.00000	0.00000	0.00183	0.0395	
	1st Quartile	17.15	0.0005	0.0005	7.26	0.0001	0.0001	12.7	39	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	18	<0.0010	<0.0010	7.39	<0.00020	<0.00020	13.6	47	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	21.35	0.0005	0.0005	7.96	0.0001	0.0001	14.8	49.5	5.00E-05	0.0025	0.0025	0.0015	0.027	
Middle Quinsam Lake 4M MQL4 E206618	Average	17.91	0.00050	0.00050	7.55	0.000100	0.000100	13.3	43.1	0.000050	0.00250	0.00250	0.00165	0.0139	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	9.62	<0.0010	<0.0010	7.02	<0.00020	<0.00020	8.5	27	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	22.0	<0.0010	<0.0010	8.15	<0.00020	<0.00020	16.0	53	<0.00010	<0.0050	<0.0050	0.0037	0.027	
	Geometric Mean	17.42	0.00050	0.00050	7.54	0.000100	0.000100	13.1	42.3	0.000050	0.00250	0.00250	0.00159	0.0127	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	14	11	
	Standard Deviation	3.92	0.00000	0.00000	0.40	0.000000	0.000000	2.2	8.0	0.000000	0.00000	0.00000	0.00057	0.0067	
	1st Quartile	16.75	0.0005	0.0005	7.26	0.0001	0.0001	12.6	40.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	18.3	<0.0010	<0.0010	7.38	<0.00020	<0.00020	13.5	47	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	21	0.0005	0.0005	7.91	0.0001	0.0001	15	48	5.00E-05	0.0025	0.0025	0.0015	0.016	
Middle Quinsam Lake 9M MQL9 E206618	Average	15.53	0.00050	0.00050	7.49	0.000100	0.000100	11.9	38.9	0.000050	0.00250	0.00250	0.00224	0.0142	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	9.48	<0.0010	<0.0010	6.97	<0.00020	<0.00020	8.9	28	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	21.0	<0.0010	<0.0010	8.12	<0.00020	<0.00020	14.7	50	<0.00010	<0.0050	<0.0050	0.0085	0.054	
	Geometric Mean	14.98	0.00050	0.00050	7.48	0.000100	0.000100	11.7	38.0	0.000050	0.00250	0.00250	0.00184	0.0120	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	13	13	
	Standard Deviation	4.07	0.00000	0.00000	0.38	0.000000	0.000000	2.1	8.7	0.000000	0.00000	0.00000	0.00203	0.0120	
	1st Quartile	10.75	0.0005	0.0005	7.22	0.0001	0.0001	9.6	28	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	17.5	<0.0010	<0.0010	7.37	<0.00020	<0.00020	12.9	42	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	18.65	0.0005	0.0005	7.87	0.0001	0.0001	13.4	46.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 1MB MQLB E206618	Average	13.14	0.00050	0.00050	7.21	0.000100	0.000100	10.2	33.3	0.000050	0.00250	0.00250	0.00177	0.0125	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	9.23	<0.0010	<0.0010	6.89	<0.00020	<0.00020	8.5	26	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	20.1	<0.0010	<0.0010	8.26	<0.00020	<0.00020	13.9	46	<0.00010	<0.0050	<0.0050	0.0039	0.033	
	Geometric Mean	12.66	0.00050	0.00050	7.21	0.000100	0.000100	10.0	32.6	0.000050	0.00250	0.00250	0.00168	0.0115	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	13	13	
	Standard Deviation	3.86	0.00000	0.00000	0.33	0.000000	0.000000	2.1	7.3	0.000000	0.00000	0.00000	0.00072	0.0069	
	1st Quartile	10.2	0.0005	0.0005	7.02	0.0001	0.0001	8.6	28	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	11.6	<0.0010	<0.0010	7.08	<0.00020	<0.00020	9	29	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	17.15	0.0005	0.0005	7.33	0.0001	0.0001	12.6	41.5	5.00E-05	0.0025	0.0025	0.0015	0.01	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake 1M NNL1 E217018	Average	0.00022	0.00020	0.0306	0.0249	11.4	0.0250	0.0000050	0.00034	0.061	0.0413	0.0039	0.0031	12.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00020	0.00017	0.0257	0.0219	10	<0.050	<0.000010	0.00030	0.050	0.0361	0.0033	0.0022	12.1
	Maximum	0.00023	0.00023	0.0370	0.0291	12	<0.050	<0.000010	0.00037	0.072	0.0505	0.0044	0.0040	13.4
	Geometric Mean	0.00022	0.00020	0.0303	0.0248	11.4	0.0250	0.0000050	0.00034	0.060	0.0410	0.0039	0.0030	12.8
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00001	0.00002	0.0052	0.0028	0.9	0.0000	0.0000000	0.00003	0.008	0.0058	0.0004	0.0008	0.6
	1st Quartile	0.00021	0.0002	0.0273	0.023	11	<0.050	<0.000010	0.00034	0.057	0.0376	0.0037	0.0026	12.2
	Median	0.00022	0.0002	0.0276	0.025	12	<0.050	<0.000010	0.00035	0.062	0.0388	0.0039	0.0027	13.2
	3rd Quartile	0.00022	0.00021	0.0355	0.0254	12	<0.050	<0.000010	0.00036	0.063	0.0434	0.0043	0.004	13.2
No Name Lake 4M NNL4 E217018	Average	0.00021	0.00019	0.0315	0.0256	10.8	0.0250	0.0000050	0.00035	0.061	0.0367	0.0033	0.0021	12.6
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00020	0.00015	0.0263	0.0224	9.2	<0.050	<0.000010	0.00029	0.049	0.0308	0.0025	0.0016	11.8
	Maximum	0.00022	0.00022	0.0371	0.0301	13	<0.050	<0.000010	0.00040	0.076	0.0414	0.0041	0.0027	13.0
	Geometric Mean	0.00021	0.00018	0.0313	0.0254	10.8	0.0250	0.0000050	0.00035	0.060	0.0365	0.0032	0.0021	12.6
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00001	0.00003	0.0041	0.0032	1.4	0.0000	0.0000000	0.00004	0.011	0.0043	0.0006	0.0004	0.5
	1st Quartile	0.00021	0.00018	0.0297	0.0228	10	<0.050	<0.000010	0.00034	0.054	0.0339	0.0029	0.0019	12.7
	Median	0.00021	0.00018	0.0306	0.0255	11	<0.050	<0.000010	0.00034	0.057	0.0381	0.0031	0.002	12.7
	3rd Quartile	0.00022	0.0002	0.0339	0.0272	11	<0.050	<0.000010	0.00037	0.069	0.0394	0.0037	0.0024	12.8
No Name Lake 9M NNL9 E217018	Average	0.00021	0.00019	0.0356	0.0283	11.2	0.0250	0.0000050	0.00044	0.084	0.0443	0.0052	0.0025	13.2
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00019	0.00015	0.0294	0.0238	10	<0.050	<0.000010	0.00029	0.073	0.0374	0.0043	0.0018	12.6
	Maximum	0.00022	0.00021	0.0413	0.0323	13	<0.050	<0.000010	0.00088	0.092	0.0485	0.0060	0.0031	13.8
	Geometric Mean	0.00021	0.00018	0.0353	0.0281	11.2	0.0250	0.0000050	0.00040	0.084	0.0442	0.0051	0.0024	13.2
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00001	0.00003	0.0044	0.0033	1.1	0.0000	0.0000000	0.00025	0.007	0.0042	0.0007	0.0005	0.4
	1st Quartile	0.00021	0.00017	0.0342	0.0272	11	<0.050	<0.000010	0.00034	0.082	0.0439	0.0047	0.0023	13.1
	Median	0.00021	0.0002	0.035	0.0276	11	<0.050	<0.000010	0.00034	0.087	0.0457	0.0054	0.0025	13.2
	3rd Quartile	0.00021	0.0002	0.0379	0.0305	11	<0.050	<0.000010	0.00035	0.088	0.0461	0.0054	0.0027	13.4
No Name Lake Bottom NNLB E217018	Average	0.00023	0.00018	0.0383	0.0292	9.9	0.0250	0.0000050	0.00034	0.114	0.0530	0.0066	0.0031	13.7
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00021	0.00016	0.0348	0.0253	9.1	<0.050	<0.000010	0.00028	0.091	0.0450	0.0052	0.0021	13.3
	Maximum	0.00028	0.00021	0.0413	0.0317	11	<0.050	<0.000010	0.00037	0.182	0.0783	0.0092	0.0045	14.4
	Geometric Mean	0.00023	0.00018	0.0383	0.0291	9.9	0.0250	0.0000050	0.00034	0.110	0.0518	0.0065	0.0030	13.7
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00002	0.0023	0.0026	0.7	0.0000	0.0000000	0.00003	0.038	0.0142	0.0016	0.0009	0.5
	1st Quartile	0.00021	0.00017	0.0382	0.0283	9.4	<0.050	<0.000010	0.00034	0.094	0.0463	0.0058	0.0025	13.3
	Median	0.00021	0.00018	0.0384	0.0291	10	<0.050	<0.000010	0.00035	0.096	0.0465	0.0061	0.0031	13.5
	3rd Quartile	0.00023	0.0002	0.0389	0.0316	10	<0.050	<0.000010	0.00035	0.107	0.049	0.0069	0.0032	13.9

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake 1M NNL1 E217018	Average	1.05	0.00050	0.00050	7.02	0.000100	0.000100	1.50	1.9	0.000050	0.00250	0.00250	0.00284	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	1.01	<0.0010	<0.0010	6.5	<0.00020	<0.00020	<3.0	1.6	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.11	<0.0010	<0.0010	7.5	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	0.0049	<0.020	
	Geometric Mean	1.05	0.00050	0.00050	7.01	0.000100	0.000100	1.50	1.9	0.000050	0.00250	0.00250	0.00240	0.0100	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	3	5	
	Standard Deviation	0.04	0.00000	0.00000	0.43	0.000000	0.000000	0.00	0.4	0.000000	0.00000	0.00000	0.00184	0.0000	
	1st Quartile	1.02	<0.0010	<0.0010	6.7	<0.00020	<0.00020	<3.0	1.6	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	1.06	<0.0010	<0.0010	7	<0.00020	<0.00020	<3.0	1.8	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	1.07	<0.0010	<0.0010	7.38	<0.00020	<0.00020	<3.0	2	<0.00010	<0.0050	<0.0050	0.0048	<0.020	
No Name Lake 4M NNL4 E217018	Average	1.06	0.00050	0.00050	6.87	0.000100	0.000100	1.50	2.4	0.000050	0.00250	0.00250	0.00300	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	1.02	<0.0010	<0.0010	6.3	<0.00020	<0.00020	<3.0	1.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.08	<0.0010	<0.0010	7.32	<0.00020	<0.00020	<3.0	5.0	<0.00010	<0.0050	<0.0050	0.0045	<0.020	
	Geometric Mean	1.06	0.00050	0.00050	6.86	0.000100	0.000100	1.50	2.2	0.000050	0.00250	0.00250	0.00269	0.0100	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	2	5	
	Standard Deviation	0.02	0.00000	0.00000	0.45	0.000000	0.000000	0.00	1.5	0.000000	0.00000	0.00000	0.00141	0.0000	
	1st Quartile	1.06	<0.0010	<0.0010	6.55	<0.00020	<0.00020	<3.0	1.7	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	1.06	<0.0010	<0.0010	6.9	<0.00020	<0.00020	<3.0	1.8	<0.00010	<0.0050	<0.0050	0.0036	<0.020	
	3rd Quartile	1.06	<0.0010	<0.0010	7.3	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050	0.0039	<0.020	
No Name Lake 9M NNL9 E217018	Average	1.044	0.00050	0.00050	6.66	0.000100	0.000100	1.50	2.8	0.000050	0.00318	0.00250	0.00258	0.0204	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.989	<0.0010	<0.0010	6.1	<0.00020	<0.00020	<3.0	2.1	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.16	<0.0010	<0.0010	7.1	<0.00020	<0.00020	<3.0	3.6	<0.00010	0.0059	<0.0050	0.0047	0.026	
	Geometric Mean	1.042	0.00050	0.00050	6.65	0.000100	0.000100	1.50	2.7	0.000050	0.00297	0.00250	0.00226	0.0194	
	Count <DL	0	5	5	0	5	5	5	0	5	4	5	3	1	
	Standard Deviation	0.067	0.00000	0.00000	0.44	0.000000	0.000000	0.00	0.5	0.000000	0.00152	0.00000	0.00152	0.0061	
	1st Quartile	1.02	<0.0010	<0.0010	6.34	<0.00020	<0.00020	<3.0	2.6	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
	Median	1.02	<0.0010	<0.0010	6.7	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	<0.0030	0.022	
	3rd Quartile	1.03	<0.0010	<0.0010	7.07	<0.00020	<0.00020	<3.0	2.8	<0.00010	<0.0050	<0.0050	0.0037	0.023	
No Name Lake Bottom NNLB E217018	Average	1.033	0.00050	0.00050	6.58	0.000100	0.000100	1.50	3.3	0.000050	0.00250	0.00250	0.00230	0.029	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.987	<0.0010	<0.0010	6.1	<0.00020	<0.00020	<3.0	2.6	<0.00010	<0.0050	<0.0050	<0.0030	0.025	
	Maximum	1.08	<0.0010	<0.0010	7.0	<0.00020	<0.00020	<3.0	3.8	<0.00010	<0.0050	<0.0050	0.0040	0.034	
	Geometric Mean	1.033	0.00050	0.00050	6.57	0.000100	0.000100	1.50	3.2	0.000050	0.00250	0.00250	0.00210	0.029	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	3	0	
	Standard Deviation	0.033	0.00000	0.00000	0.40	0.000000	0.000000	0.00	0.5	0.000000	0.00000	0.00000	0.00115	0.004	
	1st Quartile	1.03	<0.0010	<0.0010	6.26	<0.00020	<0.00020	<3.0	2.9	<0.00010	<0.0050	<0.0050	<0.0030	0.026	
	Median	1.03	<0.0010	<0.0010	6.63	<0.00020	<0.00020	<3.0	3.4	<0.00010	<0.0050	<0.0050	<0.0030	0.027	
	3rd Quartile	1.04	<0.0010	<0.0010	6.93	<0.00020	<0.00020	<3.0	3.6	<0.00010	<0.0050	<0.0050	0.003	0.033	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Long Lake Middle 1 M LLM1 E206619	Average	0.00043	0.00040	0.0205	0.0163	32.1	0.0491	0.0000050	0.00034	0.045	0.0285	0.0098	0.00467	69.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00029	0.00024	0.0060	0.0044	14	<0.050	<0.000010	0.00022	0.019	0.0090	0.0063	<0.0010	24.5
	Maximum	0.00064	0.00055	0.0617	0.0458	43	0.080	<0.000010	0.00058	0.096	0.0674	0.0142	0.0110	102
	Geometric Mean	0.00042	0.00039	0.0149	0.0124	30.8	0.0433	0.0000050	0.00033	0.037	0.0225	0.0094	0.00299	65.1
	Count <DL	0	0	0	0	0	7	15	0	0	0	0	3	0
	Standard Deviation	0.00012	0.00011	0.0181	0.0132	8.9	0.0239	0.0000000	0.00011	0.028	0.0198	0.0027	0.00369	22.5
	1st Quartile	0.00032	0.00028	0.0078	0.0073	26.5	0.025	5.00E-06	0.00027	0.022	0.0121	0.0075	0.0017	54
	Median	0.00046	0.00045	0.0091	0.0157	35	0.063	<0.000010	0.00029	0.025	0.0171	0.01	0.0033	76.2
	3rd Quartile	0.00054	0.0005	0.026	0.0194	39.5	0.0685	5.00E-06	0.00038	0.066	0.0412	0.0118	0.0075	86.8
Long Lake Middle 4 M LLM4 E206619	Average	0.00042	0.00040	0.0207	0.0158	33.4	0.0547	0.0000050	0.00032	0.047	0.0288	0.0107	0.00514	72.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00028	0.00026	0.0058	0.0050	13	<0.050	<0.000010	0.00021	0.018	0.0093	0.0065	<0.0010	23.0
	Maximum	0.00058	0.00055	0.0620	0.0473	46	0.080	<0.000010	0.00061	0.097	0.0667	0.0182	0.0134	105
	Geometric Mean	0.00041	0.00039	0.0149	0.0118	32.0	0.0503	0.0000050	0.00030	0.039	0.0230	0.0102	0.00328	68.1
	Count <DL	0	0	0	0	0	4	15	0	0	0	0	2	0
	Standard Deviation	0.00011	0.00011	0.0186	0.0137	9.0	0.0205	0.0000000	0.00012	0.029	0.0198	0.0036	0.00430	21.6
	1st Quartile	0.0003	0.00029	0.0081	0.0066	29.5	0.038	5.00E-06	0.00026	0.024	0.0131	0.0076	0.0016	61.8
	Median	0.00038	0.0004	0.009	0.0089	36	0.064	<0.000010	0.00028	0.026	0.0169	0.0098	0.0043	77.5
	3rd Quartile	0.00052	0.00048	0.0268	0.0195	39.5	0.0695	5.00E-06	0.00032	0.07	0.0418	0.0133	0.0086	86.3
Long Lake Middle 9 M LLM9 E206619	Average	0.00029	0.00026	0.0217	0.0150	41.9	0.0817	0.0000050	0.00033	0.049	0.0275	0.0619	0.0510	101.2
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00017	0.00015	0.0070	0.0053	21	<0.050	<0.000010	0.00021	0.015	0.0128	0.0117	0.0043	49.0
	Maximum	0.00047	0.00048	0.0681	0.0427	54	0.096	<0.000010	0.00057	0.108	0.0660	0.104	0.0805	114
	Geometric Mean	0.00028	0.00025	0.0164	0.0125	41.0	0.0786	0.0000050	0.00032	0.039	0.0233	0.0526	0.0413	99.2
	Count <DL	0	0	0	0	0	1	15	0	0	0	0	0	0
	Standard Deviation	0.00009	0.00009	0.0196	0.0109	8.2	0.0178	0.0000000	0.00009	0.033	0.0176	0.0287	0.0237	17.5
	1st Quartile	0.00022	0.00022	0.0104	0.009	40	0.083	5.00E-06	0.00027	0.021	0.0143	0.0519	0.0446	103
	Median	0.00028	0.00024	0.0115	0.0101	42	0.087	<0.000010	0.0003	0.026	0.0193	0.0647	0.0575	106
	3rd Quartile	0.00032	0.00026	0.0245	0.0161	47	0.09	5.00E-06	0.00033	0.074	0.0342	0.084	0.0663	110.5
Long Lake Middle 1M From B LLMB E206619	Average	0.00028	0.00022	0.0143	0.0094	46.7	0.092	0.0000050	0.00030	0.056	0.0173	0.640	0.5345	109.9
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00023	0.00017	0.0063	0.0037	41	0.069	<0.000010	0.00023	0.020	0.0058	0.123	0.0740	76.0
	Maximum	0.00034	0.00026	0.0341	0.0243	55	0.100	<0.000010	0.00041	0.080	0.0362	1.97	1.70	118
	Geometric Mean	0.00028	0.00022	0.0126	0.0082	46.5	0.091	0.0000050	0.00029	0.053	0.0149	0.430	0.3082	109.4
	Count <DL	0	0	0	0	0	0	15	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0078	0.0053	4.2	0.007	0.0000000	0.00004	0.019	0.0092	0.590	0.5602	9.9
	1st Quartile	0.00025	0.0002	0.0084	0.0055	43.5	0.09	5.00E-06	0.00028	0.042	0.0102	0.17	0.0964	109
	Median	0.00028	0.00022	0.0111	0.0081	46	0.092	<0.000010	0.00029	0.066	0.0144	0.487	0.292	112
	3rd Quartile	0.0003	0.00024	0.0194	0.0121	49	0.095	5.00E-06	0.0003	0.072	0.0253	0.77	0.7385	114

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Long Lake Middle 1 M LLM1 E206619	Average	7.33	0.00234	0.00050	7.30	0.000100	0.000100	18.0	57.8	0.000050	0.00250	0.00250	0.00387	0.0138	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	2.44	<0.0010	<0.0010	6.51	<0.00020	<0.00020	4.3	15	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.0	0.0281	<0.0010	7.69	<0.00020	<0.00020	28.0	94	<0.00010	<0.0050	<0.0050	0.022	0.067	
	Geometric Mean	6.88	0.00065	0.00050	7.29	0.000100	0.000100	16.4	53.3	0.000050	0.00250	0.00250	0.00250	0.0114	
	Count <DL	0	14	15	0	15	15	0	0	15	15	15	10	14	
	Standard Deviation	2.41	0.00713	0.00000	0.34	0.000000	0.000000	6.7	21.4	0.000000	0.00000	0.00000	0.00530	0.0147	
	1st Quartile	5.8	0.0005	0.0005	7.1	0.0001	0.0001	13.6	42	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	8.05	<0.0010	<0.0010	7.38	<0.00020	<0.00020	20.5	59	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	8.8	0.0005	0.0005	7.58	0.0001	0.0001	21.8	70	5.00E-05	0.0025	0.0025	0.0049	0.01	
Long Lake Middle 4 M LLM4 E206619	Average	7.64	0.00133	0.00050	7.12	0.000100	0.000100	19.1	62.5	0.000050	0.00250	0.00250	0.00197	0.0110	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	2.19	<0.0010	<0.0010	6.46	<0.00020	<0.00020	3.7	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.0	0.0129	<0.0010	7.60	<0.00020	<0.00020	28.1	94	<0.00010	<0.0050	<0.0050	0.0045	0.025	
	Geometric Mean	7.19	0.00062	0.00050	7.11	0.000100	0.000100	17.4	57.5	0.000050	0.00250	0.00250	0.00181	0.0106	
	Count <DL	0	14	15	0	15	15	0	0	15	15	15	12	14	
	Standard Deviation	2.28	0.00320	0.00000	0.34	0.000000	0.000000	6.5	21.1	0.000000	0.00000	0.00000	0.00100	0.0039	
	1st Quartile	6.99	0.0005	0.0005	6.9	0.0001	0.0001	16.9	52	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	7.96	<0.0010	<0.0010	7.16	<0.00020	<0.00020	19.7	67	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	9	0.0005	0.0005	7.37	0.0001	0.0001	23.6	75.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
Long Lake Middle 9 M LLM9 E206619	Average	11.76	0.00091	0.00050	6.78	0.000100	0.000100	28.9	93.6	0.000050	0.00250	0.00250	0.00191	0.0330	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	4.43	<0.0010	<0.0010	6.58	<0.00020	<0.00020	11.2	33	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	13.5	0.0067	<0.0010	7.24	<0.00020	<0.00020	33.0	110	<0.00010	<0.0050	<0.0050	0.0045	0.051	
	Geometric Mean	11.35	0.00059	0.00050	6.78	0.000100	0.000100	28.0	90.5	0.000050	0.00250	0.00250	0.00178	0.0286	
	Count <DL	0	14	15	0	15	15	0	0	15	15	15	12	3	
	Standard Deviation	2.63	0.00160	0.00000	0.21	0.000000	0.000000	5.8	19.8	0.000000	0.00000	0.00000	0.00091	0.0152	
	1st Quartile	12	0.0005	0.0005	6.64	0.0001	0.0001	28.7	93.5	5.00E-05	0.0025	0.0025	0.0015	0.0235	
	Median	12.9	<0.0010	<0.0010	6.75	<0.00020	<0.00020	30.7	98	<0.00010	<0.0050	<0.0050	<0.0030	0.033	
	3rd Quartile	13.2	0.0005	0.0005	6.82	0.0001	0.0001	32.2	105	5.00E-05	0.0025	0.0025	0.0015	0.046	
Long Lake Middle 1M From B LLM8 E206619	Average	13.32	0.00071	0.00050	6.68	0.000100	0.000100	32.2	103.1	0.000050	0.00250	0.00250	0.00192	0.084	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	8.84	<0.0010	<0.0010	6.45	<0.00020	<0.00020	21.3	73	<0.00010	<0.0050	<0.0050	<0.0030	0.047	
	Maximum	14.1	0.0037	<0.0010	7.28	<0.00020	<0.00020	34.5	120	<0.00010	<0.0050	<0.0050	0.0049	0.193	
	Geometric Mean	13.24	0.00057	0.00050	6.68	0.000100	0.000100	32.0	102.5	0.000050	0.00250	0.00250	0.00174	0.079	
	Count <DL	0	14	15	0	15	15	0	0	15	15	15	13	0	
	Standard Deviation	1.28	0.00083	0.00000	0.24	0.000000	0.000000	3.1	10.7	0.000000	0.00000	0.00000	0.00111	0.036	
	1st Quartile	13.45	0.0005	0.0005	6.54	0.0001	0.0001	32.3	100	5.00E-05	0.0025	0.0025	0.0015	0.061	
	Median	13.5	<0.0010	<0.0010	6.64	<0.00020	<0.00020	32.7	100	<0.00010	<0.0050	<0.0050	<0.0030	0.08	
	3rd Quartile	13.9	0.0005	0.0005	6.72	0.0001	0.0001	33.4	110	5.00E-05	0.0025	0.0025	0.0015	0.097	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	0.00077	0.00071	0.0310	0.0219	31.8	0.0250	0.0000050	0.00048	0.078	0.0509	0.0050	0.0022	34.6
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00074	0.00066	0.0256	0.0171	29	<0.050	<0.000010	0.00041	0.068	0.0458	0.0043	0.0016	33.7
	Maximum	0.00082	0.00074	0.0340	0.0247	33	<0.050	<0.000010	0.00054	0.090	0.0583	0.0058	0.0029	35.3
	Geometric Mean	0.00077	0.00071	0.0308	0.0217	31.8	0.0250	0.0000050	0.00048	0.077	0.0507	0.0049	0.0022	34.6
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0032	0.0033	1.6	0.0000	0.0000000	0.00005	0.010	0.0049	0.0008	0.0005	0.6
	1st Quartile	0.00076	0.00071	0.031	0.0198	32	<0.050	<0.000010	0.00046	0.071	0.0474	0.0044	0.0022	34.2
	Median	0.00076	0.00073	0.032	0.0235	32	<0.050	<0.000010	0.00046	0.072	0.0501	0.0045	0.0022	34.9
	3rd Quartile	0.00078	0.00073	0.0323	0.0244	33	<0.050	<0.000010	0.00053	0.087	0.0529	0.0058	0.0023	34.9
Lower Quinsam Lake 4M LQL4 E292118	Average	0.00078	0.00070	0.0330	0.0230	32.0	0.0250	0.0000050	0.00049	0.079	0.0479	0.0049	0.0019	34.2
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00070	0.00066	0.0255	0.0177	29	<0.050	<0.000010	0.00043	0.068	0.0430	0.0041	0.0013	33.1
	Maximum	0.00081	0.00074	0.0406	0.0270	34	<0.050	<0.000010	0.00055	0.091	0.0557	0.0059	0.0029	35.5
	Geometric Mean	0.00078	0.00070	0.0326	0.0227	31.9	0.0250	0.0000050	0.00048	0.078	0.0477	0.0049	0.0018	34.2
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00003	0.0055	0.0037	2.0	0.0000	0.0000000	0.00005	0.009	0.0056	0.0007	0.0007	1.0
	1st Quartile	0.00078	0.00068	0.0307	0.0207	31	<0.050	<0.000010	0.00046	0.071	0.0433	0.0045	0.0014	33.8
	Median	0.0008	0.00071	0.0334	0.0244	33	<0.050	<0.000010	0.00047	0.079	0.0459	0.0047	0.0014	33.8
	3rd Quartile	0.0008	0.00071	0.0349	0.025	33	<0.050	<0.000010	0.00052	0.084	0.0518	0.0053	0.0024	34.9
Lower Quinsam Lake 9M LQL9 E292118	Average	0.00078	0.00071	0.0282	0.0204	29.2	0.0250	0.0000050	0.00046	0.081	0.0492	0.0053	0.00136	33.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00074	0.00067	0.0257	0.0182	24	<0.050	<0.000010	0.00042	0.069	0.0440	0.0043	<0.0010	32.7
	Maximum	0.00081	0.00075	0.0319	0.0221	32	<0.050	<0.000010	0.00053	0.092	0.0578	0.0062	0.0029	35.9
	Geometric Mean	0.00078	0.00071	0.0282	0.0204	29.0	0.0250	0.0000050	0.00046	0.080	0.0490	0.0052	0.00107	33.8
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	2	0
	Standard Deviation	0.00003	0.00003	0.0024	0.0014	3.3	0.0000	0.0000000	0.00004	0.010	0.0057	0.0008	0.00103	1.3
	1st Quartile	0.00076	0.0007	0.0266	0.0201	28	<0.050	<0.000010	0.00044	0.072	0.0449	0.0046	<0.0010	33
	Median	0.00078	0.00072	0.028	0.0208	31	<0.050	<0.000010	0.00046	0.081	0.0477	0.0054	0.001	33
	3rd Quartile	0.0008	0.00073	0.029	0.0209	31	<0.050	<0.000010	0.00047	0.09	0.0517	0.0058	0.0019	34.3
Lower Quinsam Lake 1MB LQLB E292118	Average	0.00085	0.00071	0.0273	0.0186	33.4	0.0250	0.0000050	0.00047	0.110	0.0617	0.0108	0.0061	34.4
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00083	0.00067	0.0237	0.0133	29	<0.050	<0.000010	0.00039	0.090	0.0515	0.0079	0.0029	32.2
	Maximum	0.00090	0.00074	0.0313	0.0238	39	<0.050	<0.000010	0.00052	0.136	0.0740	0.0203	0.0139	36.7
	Geometric Mean	0.00085	0.00071	0.0271	0.0182	33.3	0.0250	0.0000050	0.00046	0.109	0.0612	0.0100	0.0052	34.4
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0036	0.0038	3.6	0.0000	0.0000000	0.00005	0.017	0.0091	0.0053	0.0045	1.7
	1st Quartile	0.00083	0.0007	0.0246	0.0173	33	<0.050	<0.000010	0.00045	0.104	0.0548	0.0082	0.0035	33.5
	Median	0.00083	0.00072	0.0259	0.0186	33	<0.050	<0.000010	0.00048	0.107	0.0612	0.0087	0.0046	34.3
	3rd Quartile	0.00085	0.00072	0.0311	0.0198	33	<0.050	<0.000010	0.00049	0.112	0.0671	0.0089	0.0057	35.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	8.87	0.00050	0.00050	7.23	0.000100	0.000100	7.3	22.8	0.000062	0.00250	0.00250	0.00150	0.0142	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	8.28	<0.0010	<0.0010	7.01	<0.00020	<0.00020	6.8	21	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	10.1	<0.0010	<0.0010	7.42	<0.00020	<0.00020	8.0	25	0.00011	<0.0050	<0.0050	<0.0030	0.031	
	Geometric Mean	8.85	0.00050	0.00050	7.22	0.000100	0.000100	7.3	22.8	0.000059	0.00250	0.00250	0.00150	0.0125	
	Count <DL	0	5	5	0	5	5	0	0	4	5	5	5	4	
	Standard Deviation	0.76	0.00000	0.00000	0.18	0.000000	0.000000	0.6	1.5	0.000027	0.00000	0.00000	0.00000	0.0094	
	1st Quartile	8.32	<0.0010	<0.0010	7.05	<0.00020	<0.00020	6.9	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	8.56	<0.0010	<0.0010	7.3	<0.00020	<0.00020	6.9	23	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	9.11	<0.0010	<0.0010	7.35	<0.00020	<0.00020	7.9	23	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
Lower Quinsam Lake 4M LQL4 E292118	Average	8.84	0.00050	0.00050	7.19	0.000100	0.000100	7.2	22.8	0.000060	0.00250	0.00250	0.00182	0.0236	
	Count	5	5	5	6	5	5	5	5	5	5	5	5	5	
	Minimum	8.17	<0.0010	<0.0010	6.95	<0.00020	<0.00020	6.1	21	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	9.69	<0.0010	<0.0010	7.39	<0.00020	<0.00020	8.4	25	0.00010	<0.0050	<0.0050	0.0031	0.067	
	Geometric Mean	8.81	0.00050	0.00050	7.19	0.000100	0.000100	7.2	22.8	0.000057	0.00250	0.00250	0.00173	0.0170	
	Count <DL	0	5	5	0	5	5	0	0	4	5	5	4	3	
	Standard Deviation	0.70	0.00000	0.00000	0.17	0.000000	0.000000	0.9	1.6	0.000022	0.00000	0.00000	0.00072	0.0247	
	1st Quartile	8.22	<0.0010	<0.0010	7.07	<0.00020	<0.00020	6.9	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	8.67	<0.0010	<0.0010	7.24	<0.00020	<0.00020	7.1	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	9.43	<0.0010	<0.0010	7.31	<0.00020	<0.00020	7.7	24	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
Lower Quinsam Lake 9M LQL9 E292118	Average	8.41	0.00050	0.00050	7.11	0.000100	0.000100	6.9	23.8	0.000050	0.00250	0.00250	0.03158	0.0152	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	8.01	<0.0010	<0.0010	6.90	<0.00020	<0.00020	6.6	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.72	<0.0010	<0.0010	7.26	<0.00020	<0.00020	7.4	30	<0.00010	<0.0050	<0.0050	0.15	0.023	
	Geometric Mean	8.41	0.00050	0.00050	7.11	0.000100	0.000100	6.9	23.6	0.000050	0.00250	0.00250	0.00444	0.0140	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	3	3	
	Standard Deviation	0.29	0.00000	0.00000	0.13	0.000000	0.000000	0.3	3.5	0.000000	0.00000	0.00000	0.06620	0.0071	
	1st Quartile	8.24	<0.0010	<0.0010	7.08	<0.00020	<0.00020	6.8	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	8.46	<0.0010	<0.0010	7.14	<0.00020	<0.00020	6.9	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	8.64	<0.0010	<0.0010	7.16	<0.00020	<0.00020	7	23	<0.00010	<0.0050	<0.0050	0.0034	0.023	
Lower Quinsam Lake 1MB LQLB E292118	Average	8.77	0.00050	0.00050	7.10	0.000100	0.000100	7.1	23.2	0.000050	0.00250	0.00250	0.00150	0.0228	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	8.23	<0.0010	<0.0010	6.90	<0.00020	<0.00020	6.7	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	9.18	<0.0010	<0.0010	7.26	<0.00020	<0.00020	8.2	24	<0.00010	<0.0050	<0.0050	<0.0030	0.029	
	Geometric Mean	8.76	0.00050	0.00050	7.10	0.000100	0.000100	7.1	23.2	0.000050	0.00250	0.00250	0.00150	0.0214	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	5	1	
	Standard Deviation	0.40	0.00000	0.00000	0.16	0.000000	0.000000	0.6	0.8	0.000000	0.00000	0.00000	0.00000	0.0076	
	1st Quartile	8.55	<0.0010	<0.0010	6.98	<0.00020	<0.00020	6.7	23	<0.00010	<0.0050	<0.0050	<0.0030	0.022	
	Median	8.74	<0.0010	<0.0010	7.13	<0.00020	<0.00020	7	23	<0.00010	<0.0050	<0.0050	<0.0030	0.026	
	3rd Quartile	9.15	<0.0010	<0.0010	7.23	<0.00020	<0.00020	7	24	<0.00010	<0.0050	<0.0050	<0.0030	0.027	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Settling Pond #4 WD E207409	Average	0.00153	0.00082	0.00577	0.00402	466	1.037	0.0000082	0.000301	1.471	0.0119	0.395	0.350	539
	Count	18	22	18	22	23	18	22	22	18	22	18	22	18
	Minimum	0.00089	0.00036	<0.0060	<0.0030	390	0.786	<0.000010	<0.00020	0.187	<0.010	0.110	0.105	375
	Maximum	0.00193	0.00144	0.0271	0.0180	510	1.22	0.000020	0.00095	2.13	0.0322	0.595	0.591	647
	Geometric Mean	0.00150	0.00077	0.00445	0.00308	465	1.031	0.0000075	0.000242	1.254	0.0106	0.353	0.304	532
	Count <DL	0	0	10	16	0	0	21	13	0	4	0	0	0
	Standard Deviation	0.00031	0.00028	0.00602	0.00406	31	0.109	0.0000036	0.000230	0.623	0.0062	0.163	0.169	84
	1st Quartile	0.00129	0.00059	0.003	0.00188	440	1.015	5.00E-06	0.0002	0.986	0.0082	0.239	0.205	510
	Median	0.0016	0.00079	0.003	0.003	470	1.04	1.00E-05	0.0002	1.665	0.011	0.454	0.338	564
	3rd Quartile	0.00174	0.00098	0.00602	0.00353	490	1.088	1.00E-05	0.000322	1.95	0.0148	0.52	0.509	592
North Pit Culvert WC E207411	Average	0.00040	0.00036	0.00679	0.00584	400.0	0.916	0.0000069	0.000276	0.100	0.0098	0.0236	0.0222	412
	Count	8	8	8	8	1	8	8	8	8	8	8	8	8
	Minimum	0.00029	0.00027	<0.0060	<0.0060	400	0.710	<0.000010	<0.00020	0.058	<0.010	0.0088	0.0084	285
	Maximum	0.00054	0.00044	0.0157	0.0117	400	1.22	<0.000020	0.00059	0.143	0.0153	0.0375	0.0379	520
	Geometric Mean	0.00039	0.00036	0.00554	0.00508	400.0	0.900	0.0000065	0.000245	0.095	0.0092	0.0210	0.0196	402
	Count <DL	0	0	3	3	0	0	8	4	0	2	0	0	0
	Standard Deviation	0.00009	0.00006	0.00476	0.00335	0.0	0.187	0.0000026	0.000151	0.036	0.0036	0.0111	0.0109	92
	1st Quartile	0.00034	0.00033	0.003	0.003	400	0.787	5.00E-06	0.0002	0.066	0.0074	0.0167	0.0155	342
	Median	0.00038	0.00036	0.0052	0.00445	400	0.835	5.00E-06	0.000225	0.101	0.0104	0.0221	0.0196	405
	3rd Quartile	0.00044	0.00038	0.00855	0.00853	400	1.068	1.00E-05	0.000312	0.134	0.0118	0.0347	0.0316	494
Settling Pond # 1 SPD E218582	Average	0.00106	0.00093	0.01976	0.01304	90.8	0.1802	0.0000061	0.000265	0.398	0.2313	0.0730	0.0606	324.1
	Count	9	14	9	14	13	9	14	14	9	14	9	14	9
	Minimum	0.00017	0.00020	<0.0030	<0.0030	26	<0.050	<0.000010	<0.00020	0.106	0.0241	0.0209	0.0050	23.0
	Maximum	0.00175	0.00172	0.0526	0.0421	110	0.307	0.000020	0.00054	1.44	1.19	0.332	0.386	490
	Geometric Mean	0.00092	0.00081	0.01041	0.00573	85.0	0.1454	0.0000055	0.000242	0.253	0.1486	0.0452	0.0309	248.8
	Count <DL	0	0	2	6	0	1	13	2	0	0	0	0	0
	Standard Deviation	0.00042	0.00047	0.01845	0.01511	27.5	0.1007	0.0000040	0.000113	0.452	0.2948	0.1002	0.0977	168.9
	1st Quartile	0.00102	0.00066	0.0031	0.0015	82	0.108	5.00E-06	0.00022	0.135	0.0895	0.0258	0.0149	213
	Median	0.00108	0.00092	0.0165	0.00415	110	0.18	5.00E-06	0.000245	0.156	0.1255	0.0308	0.0244	392
	3rd Quartile	0.00115	0.00102	0.0334	0.02682	110	0.272	5.00E-06	0.000302	0.517	0.2045	0.0662	0.0693	463
Culvert into Long Lake LLE E292130	Average	0.00080	0.00069	0.0545	0.02639	71	0.1752	0.0000144	0.000298	0.501	0.2735	0.0778	0.0756	264.2
	Count	13	13	13	13	12	13	13	13	13	13	13	13	13
	Minimum	0.00054	0.00045	0.0046	<0.0030	26	<0.050	<0.000010	<0.00020	0.099	0.0141	0.0066	0.0065	57.1
	Maximum	0.00122	0.00101	0.131	0.0627	150	0.480	0.000127	0.00061	1.24	0.855	0.338	0.335	712
	Geometric Mean	0.00078	0.00067	0.0365	0.01357	57	0.1050	0.0000064	0.000257	0.389	0.1841	0.0475	0.0457	185.0
	Count <DL	0	0	0	3	0	3	12	3	0	0	0	0	0
	Standard Deviation	0.00020	0.00016	0.0406	0.02316	48	0.1700	0.0000338	0.000154	0.363	0.2376	0.0875	0.0870	230.0
	1st Quartile	0.00067	0.00059	0.023	0.0074	35	0.051	<0.000010	0.00021	0.243	0.117	0.0263	0.0253	81.8
	Median	0.00073	0.00067	0.0466	0.0189	49	0.083	<0.000010	0.0003	0.317	0.219	0.0616	0.063	145
	3rd Quartile	0.00093	0.00079	0.0833	0.0466	122	0.312	<0.000010	0.00038	0.657	0.271	0.087	0.0779	467

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Settling Pond #4 WD E207409	Average	355	0.00457	0.00132	7.64	0.000172	0.000150	282	703	0.000075	0.01393	0.00935			0.14
	Count	22	18	22	53	18	22	22	53	22	18	22			1
	Minimum	255	<0.0020	<0.0010	7.12	<0.00020	<0.00020	151	340	<0.00010	<0.0050	<0.0050			0.14
	Maximum	431	0.0587	0.0035	8.34	<0.00040	<0.00040	344	1000	<0.00020	0.066	0.033			0.14
	Geometric Mean	351	0.00155	0.00114	7.63	0.000165	0.000141	274	677	0.000071	0.00826	0.00628			0.14
	Count <DL	0	11	13	0	18	22	0	0	22	10	14			0
	Standard Deviation	49	0.01353	0.00082	0.24	0.000046	0.000051	61	194	0.000026	0.01704	0.00931			0.00
	1st Quartile	315	0.001	0.001	7.46	0.000125	0.0001	234	560	5.00E-05	0.005	0.0025			0.14
	Median	374	0.001	0.001	7.6	0.0002	0.00015	313	630	7.50E-05	0.005	0.005			0.14
	3rd Quartile	391	0.00138	0.0012	7.8	0.0002	0.0002	325	910	0.0001	0.016	0.01185			0.14
North Pit Culvert WC E207411	Average	307	0.00452	0.00110	8.19	0.000150	0.000138	239	693	0.000069	0.00375	0.00344			
	Count	8	8	8	12	8	8	8	12	8	8	8			
	Minimum	230	<0.0010	<0.0010	7.96	<0.00020	<0.00020	138	330	<0.00010	<0.0050	<0.0050			
	Maximum	396	0.0273	0.0031	8.46	<0.00040	<0.00040	337	1000	<0.00020	<0.010	<0.010			
	Geometric Mean	300	0.00164	0.00091	8.19	0.000141	0.000130	228	650	0.000065	0.00354	0.00324			
	Count <DL	0	4	6	0	8	8	0	0	8	8	8			
	Standard Deviation	68	0.00924	0.00086	0.17	0.000053	0.000052	75	238	0.000026	0.00134	0.00129			
	1st Quartile	245	0.001	0.0005	8.05	0.0001	0.0001	175	547	5.00E-05	0.0025	0.0025			
	Median	294	0.00105	0.001	8.19	0.00015	0.0001	242	700	5.00E-05	0.00375	0.0025			
	3rd Quartile	372	0.00163	0.00105	8.3	0.0002	0.0002	292	892	0.0001	0.005	0.005			
Settling Pond #1 SPD E218582	Average	22.80	0.00058	0.00050	7.45	0.000100	0.000100	103.6	272.2	0.000066	0.00866	0.01012		0.0100	0.0075
	Count	14	9	14	54	9	14	14	46	14	9	14		1	1
	Minimum	1.80	<0.0010	<0.0010	6.45	<0.00020	<0.00020	4.1	26	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	37.1	0.0012	<0.0010	8.88	<0.00020	<0.00020	153	490	0.00020	0.0204	0.0633		<0.020	<0.015
	Geometric Mean	18.09	0.00055	0.00050	7.43	0.000100	0.000100	77.3	219.9	0.000059	0.00616	0.00565		0.0100	0.0075
	Count <DL	0	8	14	0	9	14	0	0	12	4	7		1	1
	Standard Deviation	11.04	0.00023	0.00000	0.55	0.000000	0.000000	50.8	145.8	0.000043	0.00707	0.01589		0.0000	0.0000
	1st Quartile	16.32	<0.0010	0.0005	6.94	<0.00020	0.0001	77.2	132.5	5.00E-05	<0.0050	0.0025		<0.020	<0.015
	Median	23.9	<0.0010	0.0005	7.56	<0.00020	0.0001	123.5	280	5.00E-05	0.0084	0.0047		<0.020	<0.015
	3rd Quartile	31.2	<0.0010	0.0005	7.81	<0.00020	0.0001	142.5	407.5	5.00E-05	0.011	0.0112		<0.020	<0.015
Culvert into Long Lake LLE E292130	Average	24.68	0.00050	0.00050	7.31	0.000100	0.000100	86.1	207	0.000056	0.00250	0.00303	0.00283	0.0240	0.0991
	Count	13	13	13	46	13	13	13	45	13	13	13	12	12	12
	Minimum	5.01	<0.0010	<0.0010	6.5	<0.00020	<0.00020	15.0	43	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	74.2	<0.0010	<0.0010	8.05	<0.00020	<0.00020	249	660	0.00013	<0.0050	0.0094	0.0056	0.093	0.56
	Geometric Mean	15.91	0.00050	0.00050	7.30	0.000100	0.000100	56.4	153	0.000054	0.00250	0.00277	0.00248	0.0168	0.0243
	Count <DL	0	13	13	0	13	13	0	0	12	13	12	6	8	7
	Standard Deviation	23.94	0.00000	0.00000	0.39	0.000000	0.000000	80.5	179	0.000022	0.00000	0.00191	0.00149	0.0254	0.1732
	1st Quartile	6.79	<0.0010	<0.0010	7.11	<0.00020	<0.00020	22.6	86	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	Median	11.6	<0.0010	<0.0010	7.28	<0.00020	<0.00020	42	140	<0.00010	<0.0050	<0.0050	0.0025	0.01	0.0075
	3rd Quartile	44.3	<0.0010	<0.0010	7.58	<0.00020	<0.00020	155	240	<0.00010	<0.0050	<0.0050	0.00395	0.032	0.0965

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seep into Long Lake LLS E292131	Average	0.00358	0.00324	0.00536	0.00190	229	0.564	0.0000058	0.000117	1.71	1.59	0.409	0.404	632
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00217	0.00204	<0.0030	<0.0030	78	0.466	<0.000010	<0.00020	1.20	1.01	0.272	0.266	573
	Maximum	0.00461	0.00436	0.0210	0.0033	260	0.63	<0.000020	<0.00040	2.23	2.09	0.469	0.463	700
	Geometric Mean	0.00347	0.00315	0.00355	0.00180	220	0.562	0.0000056	0.000112	1.69	1.55	0.404	0.399	631
	Count <DL	0	0	6	11	0	0	12	12	0	0	0	0	0
	Standard Deviation	0.00085	0.00079	0.00574	0.00073	50	0.051	0.0000019	0.000039	0.29	0.34	0.062	0.060	39
	1st Quartile	0.00283	0.00259	0.0015	0.0015	230	0.525	5.00E-06	0.0001	1.52	1.45	0.387	0.383	596
	Median	0.0038	0.00343	0.00345	0.0015	240	0.567	5.00E-06	0.0001	1.74	1.62	0.419	0.422	639
	3rd Quartile	0.00415	0.00386	0.00632	0.00188	260	0.611	5.00E-06	0.0001	1.85	1.74	0.46	0.447	659
Long Lake Middle Seep LLSM E292131	Average	0.00090	0.00083	0.02482	0.00909	200	0.443	0.0000062	0.000413	0.529	0.4769	0.2029	0.2045	503
	Count	11	11	11	11	11	11	11	11	11	11	11	11	11
	Minimum	0.00024	0.00022	<0.0030	<0.0030	150	0.350	<0.000010	<0.00020	0.097	0.0509	0.0312	0.0297	445
	Maximum	0.00176	0.00166	0.154	0.0353	250	0.496	0.000018	0.00148	0.952	0.869	0.362	0.369	548
	Geometric Mean	0.00077	0.00072	0.00816	0.00482	197	0.441	0.0000056	0.000291	0.417	0.3596	0.1505	0.1499	502
	Count <DL	0	0	3	4	0	0	10	3	0	0	0	0	0
	Standard Deviation	0.00048	0.00043	0.04582	0.01104	33	0.048	0.0000039	0.000400	0.306	0.2740	0.1291	0.1315	34
	1st Quartile	0.00051	0.00056	0.00265	0.0015	170	0.406	5.00E-06	0.000155	0.224	0.2675	0.0716	0.0683	481
	Median	0.0009	0.00083	0.0084	0.0041	200	0.456	<0.000010	0.00032	0.617	0.562	0.224	0.223	503
	3rd Quartile	0.00114	0.00102	0.01385	0.0128	225	0.482	5.00E-06	0.000495	0.754	0.685	0.3185	0.318	529
75 Surface Decant 7SSD E292069	Average	0.00377	0.00349	0.0111	0.00440	117	0.0250	0.0000050	0.00045	0.116	0.0669	0.0655	0.0470	127.1
	Count	4	4	4	4	4	4	4	4	4	4	4	4	4
	Minimum	0.00011	0.00022	0.0047	<0.0030	28	<0.050	<0.000010	0.00023	0.036	0.0079	0.0179	0.0061	51.4
	Maximum	0.00907	0.00834	0.0182	0.0060	200	<0.050	<0.000010	0.00057	0.309	0.220	0.115	0.0950	235
	Geometric Mean	0.00163	0.00183	0.0097	0.00388	94	0.0250	0.0000050	0.00043	0.078	0.0287	0.0466	0.0289	110.4
	Count <DL	0	0	0	1	0	4	4	0	0	0	0	0	0
	Standard Deviation	0.00392	0.00355	0.0061	0.00205	70	0.0000	0.0000000	0.00016	0.130	0.1022	0.0532	0.0423	77.3
	1st Quartile	0.00129	0.00127	0.0067	0.00368	89	0.025	5.00E-06	0.0004	0.041	0.0154	0.0204	0.0145	92.4
	Median	0.00296	0.0027	0.0106	0.00505	120	0.025	5.00E-06	0.0005	0.06	0.0198	0.0646	0.0434	111
	3rd Quartile	0.00544	0.00493	0.015	0.00578	147	0.025	5.00E-06	0.00056	0.134	0.0713	0.1098	0.0759	145.8
Stream 1 75 75 E292109	Average	0.000069	0.000061	0.0516	0.0211	18.2	0.0250	0.0000050	0.000235	0.0293	0.00386	0.00121	0.00050	18.3
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	<0.00010	<0.00010	0.0148	0.0134	11	<0.050	<0.000010	<0.00020	<0.010	<0.0050	<0.0010	<0.0010	13.2
	Maximum	0.00015	0.00014	0.174	0.0288	30	<0.050	<0.000010	0.00040	0.133	0.0075	0.0051	<0.0010	26.2
	Geometric Mean	0.000063	0.000057	0.0387	0.0201	16.9	0.0250	0.0000050	0.000213	0.0147	0.00348	0.00077	0.00050	17.7
	Count <DL	6	7	0	0	0	8	8	2	3	5	6	8	0
	Standard Deviation	0.000037	0.000032	0.0513	0.0069	7.7	0.0000	0.0000000	0.000100	0.0435	0.00199	0.00162	0.00000	5.2
	1st Quartile	5.00E-05	5.00E-05	0.0294	0.0144	11.8	0.025	5.00E-06	0.000175	0.005	0.0025	0.0005	0.0005	13.5
	Median	5.00E-05	5.00E-05	0.036	0.0211	15.5	0.025	5.00E-06	0.00026	0.0125	0.0025	0.0005	0.0005	17.4
	3rd Quartile	6.20E-05	5.00E-05	0.0464	0.028	24.2	0.025	5.00E-06	0.000275	0.0258	0.00528	0.00078	0.0005	21.9

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seep into Long Lake LLS E292131	Average	92.0	0.0024	0.0023	7.01	0.000108	0.000117	206.2	615	0.000063	0.00271	0.00292	0.00150	0.0165	0.037
	Count	12	12	12	12	12	12	12	12	12	12	12	2	2	2
	Minimum	78.5	0.0016	0.0017	6.69	<0.00020	<0.00020	175	530	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	0.032
	Maximum	102	0.0038	0.0038	7.33	<0.00040	<0.00040	238	660	0.00011	<0.010	<0.010	<0.0030	0.023	0.042
	Geometric Mean	91.9	0.0023	0.0022	7.01	0.000106	0.000112	205.3	613	0.000060	0.00265	0.00281	0.00150	0.0152	0.037
	Count <DL	0	0	0	0	12	12	0	0	11	12	12	2	1	0
	Standard Deviation	6.2	0.0007	0.0006	0.18	0.000029	0.000039	20.3	45	0.000024	0.00072	0.00097	0.00000	0.0092	0.007
	1st Quartile	90.1	0.0019	0.0018	6.9	0.0001	0.0001	190.8	595	5.00E-05	0.0025	0.0025	0.0015	0.0132	0.034
	Median	92.4	0.0022	0.0022	7.02	0.0001	0.0001	208	635	5.00E-05	0.0025	0.0025	0.0015	0.0165	0.037
	3rd Quartile	94.4	0.0025	0.0024	7.15	0.0001	0.0001	222.2	650	6.20E-05	0.0025	0.0025	0.0015	0.0198	0.04
Long Lake Middle Seep LLSM E292131	Average	71.7	0.0024	0.0023	7.53	0.000100	0.000100	162.8	451	0.000073	0.00280	0.00279	0.00150	0.030	0.0075
	Count	11	11	11	11	11	11	11	11	11	11	11	2	2	2
	Minimum	56.0	0.0012	0.0012	7.12	<0.00020	<0.00020	149	370	<0.00010	<0.0050	<0.0050	<0.0030	0.025	<0.015
	Maximum	84.8	0.0068	0.0067	8.19	<0.00020	<0.00020	183	540	0.00013	0.0058	0.0057	<0.0030	0.035	<0.015
	Geometric Mean	71.2	0.0021	0.0021	7.52	0.000100	0.000100	162.4	449	0.000067	0.00270	0.00269	0.00150	0.030	0.0075
	Count <DL	0	0	0	0	11	11	0	0	7	10	10	2	0	2
	Standard Deviation	8.9	0.0015	0.0015	0.33	0.000000	0.000000	11.6	49	0.000032	0.00099	0.00096	0.00000	0.007	0.0000
	1st Quartile	66.3	0.0018	0.0018	7.24	0.0001	0.0001	152.5	430	5.00E-05	0.0025	0.0025	0.0015	0.028	0.0075
	Median	72.2	0.0021	0.002	7.63	<0.00020	<0.00020	163	450	<0.00010	<0.0050	<0.0050	0.0015	0.03	0.0075
	3rd Quartile	77.8	0.0022	0.002	7.7	0.0001	0.0001	171	480	0.000105	0.0025	0.0025	0.0015	0.032	0.0075
7S Surface Decant 7SSD E292069	Average	4.50	0.00050	0.00050	7.48	0.000100	0.000100	6.93	20.7	0.000062	0.00250	0.00320			
	Count	4	4	4	4	4	4	4	4	4	4	4			
	Minimum	1.43	<0.0010	<0.0010	6.85	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050			
	Maximum	7.50	<0.0010	<0.0010	8.04	<0.00020	<0.00020	16.8	50	0.00010	<0.0050	0.0053			
	Geometric Mean	3.79	0.00050	0.00050	7.47	0.000100	0.000100	4.16	12.1	0.000059	0.00250	0.00302			
	Count <DL	0	4	4	0	4	4	2	0	3	4	3			
	Standard Deviation	2.63	0.00000	0.00000	0.52	0.000000	0.000000	7.24	21.4	0.000025	0.00000	0.00140			
	1st Quartile	2.93	0.0005	0.0005	7.19	0.0001	0.0001	1.5	5.9	5.00E-05	0.0025	0.0025			
	Median	4.53	0.0005	0.0005	7.52	0.0001	0.0001	4.7	15	5.00E-05	0.0025	0.0025			
	3rd Quartile	6.09	0.0005	0.0005	7.82	0.0001	0.0001	10.12	29.8	6.20E-05	0.0025	0.0032			
Stream 1 7S 7S E292109	Average	1.72	0.00289	0.00050	7.09	0.000100	0.000100	1.50	4.0	0.000050	0.00250	0.00250		0.0100	
	Count	8	8	8	8	8	8	8	8	8	8	8		1	
	Minimum	1.37	<0.0010	<0.0010	6.6	<0.00020	<0.00020	<3.0	3.3	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	2.56	0.0196	<0.0010	7.83	<0.00020	<0.00020	<3.0	5.8	<0.00010	<0.0050	<0.0050		<0.020	
	Geometric Mean	1.69	0.00079	0.00050	7.08	0.000100	0.000100	1.50	4.0	0.000050	0.00250	0.00250		0.0100	
	Count <DL	0	7	8	0	8	8	8	0	8	8	8		1	
	Standard Deviation	0.40	0.00675	0.00000	0.41	0.000000	0.000000	0.00	0.8	0.000000	0.00000	0.00000		0.0000	
	1st Quartile	1.41	0.0005	0.0005	6.78	0.0001	0.0001	1.5	3.4	5.00E-05	0.0025	0.0025		<0.020	
	Median	1.64	0.0005	0.0005	7.01	0.0001	0.0001	1.5	3.9	5.00E-05	0.0025	0.0025		<0.020	
	3rd Quartile	1.84	0.0005	0.0005	7.36	0.0001	0.0001	1.5	4.2	5.00E-05	0.0025	0.0025		<0.020	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
2 North Portal Sump 2NPS E283433	Average	0.00074	0.00053	0.05752	0.01516	290	0.818	0.0000122	0.000353	0.231	0.074	0.235	0.225	832
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00041	0.00031	<0.0060	<0.0060	170	0.629	<0.000020	<0.00040	0.123	0.012	0.159	0.148	718
	Maximum	0.00104	0.00077	0.261	0.0631	330	0.97	0.000024	0.00117	0.310	0.183	0.328	0.317	936
	Geometric Mean	0.00071	0.00051	0.02754	0.00960	286	0.813	0.0000115	0.000289	0.224	0.050	0.229	0.219	829
	Count <DL	0	0	1	3	0	0	10	8	0	0	0	0	0
	Standard Deviation	0.00022	0.00014	0.07825	0.01723	44	0.091	0.0000053	0.000290	0.055	0.063	0.053	0.055	70
	1st Quartile	0.00059	0.00041	0.0128	0.00562	280	0.798	1.00E-05	0.0002	0.196	0.022	0.188	0.187	788
	Median	0.00072	0.00052	0.024	0.0084	300	0.825	1.00E-05	0.0002	0.232	0.042	0.24	0.226	848
	3rd Quartile	0.0009	0.00064	0.06535	0.01978	320	0.85	1.00E-05	0.000422	0.269	0.139	0.264	0.248	881
3-Mains 2North 3M2N	Average	0.00051	0.00057	0.03369	0.00696	387	0.783	0.0000068	0.000274	0.728	0.1372	0.2230	0.2202	445
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	0.00015	0.00011	<0.0030	<0.0030	290	0.715	<0.000010	<0.00020	0.176	0.0072	0.0750	0.0754	250
	Maximum	0.00209	0.00236	0.172	0.0278	420	0.84	0.000014	0.00072	1.76	0.340	0.469	0.453	887
	Geometric Mean	0.00032	0.00029	0.01129	0.00417	385	0.782	0.0000062	0.000200	0.495	0.0846	0.1928	0.1910	419
	Count <DL	0	0	2	3	0	0	7	5	0	0	0	0	0
	Standard Deviation	0.00065	0.00080	0.05746	0.00879	42	0.046	0.0000034	0.000240	0.661	0.1175	0.1224	0.1180	188
	1st Quartile	0.00016	0.00012	0.00488	0.0015	385	0.752	5.00E-06	0.0001	0.229	0.0494	0.1593	0.1646	375
	Median	0.0003	0.0002	0.0101	0.0045	405	0.793	5.00E-06	0.00015	0.424	0.095	0.234	0.225	406
	3rd Quartile	0.00042	0.00053	0.03248	0.0065	410	0.815	6.20E-06	0.000378	1.116	0.2255	0.2488	0.2502	430
1-Mains 2North 1M2N	Average	0.00641	0.00602	0.00306	0.00288	499	1.13	0.0000085	0.000368	10.27	10.18	0.950	0.943	629
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00410	0.00389	<0.0060	<0.0030	360	0.97	<0.000010	<0.00020	5.07	4.09	0.529	0.515	415
	Maximum	0.0110	0.00989	0.0036	0.0048	540	1.33	<0.000020	0.00103	15.7	15.4	1.37	1.41	859
	Geometric Mean	0.00610	0.00579	0.00306	0.00274	496	1.12	0.0000081	0.000283	9.50	9.33	0.889	0.882	601
	Count <DL	0	0	9	9	0	0	10	5	0	0	0	0	0
	Standard Deviation	0.00227	0.00183	0.00019	0.00092	51	0.11	0.0000024	0.000293	4.00	4.05	0.345	0.343	191
	1st Quartile	0.00494	0.00475	0.003	0.003	500	1.05	6.20E-06	0.0002	6.22	6.3	0.598	0.59	426
	Median	0.00566	0.00559	0.003	0.003	510	1.12	1.00E-05	0.000265	11.3	11.95	1.022	1.026	657
	3rd Quartile	0.00712	0.00685	0.003	0.003	520	1.16	1.00E-05	0.00043	13.25	13.12	1.272	1.202	812
5 Mains 2North 5M#2	Average	0.00866	0.00856	0.00204	0.00184	543	0.947	0.0000056	0.000299	0.977	0.6389	0.220	0.218	227
	Count	9	9	9	9	9	9	9	9	9	9	9	9	9
	Minimum	0.00620	0.00674	<0.0030	<0.0030	470	0.773	<0.000010	<0.00020	0.530	0.0647	0.147	0.161	177
	Maximum	0.0113	0.0109	0.0049	0.0031	590	1.08	<0.000020	0.00073	2.24	0.974	0.312	0.310	308
	Geometric Mean	0.00855	0.00848	0.00185	0.00176	542	0.942	0.0000054	0.000237	0.887	0.5280	0.212	0.213	222
	Count <DL	0	0	8	8	0	0	9	3	0	0	0	0	0
	Standard Deviation	0.00146	0.00127	0.00118	0.00068	37	0.103	0.0000017	0.000214	0.521	0.2852	0.061	0.052	49
	1st Quartile	0.00763	0.00797	<0.0030	<0.0030	530	0.913	<0.000010	<0.00020	0.637	0.529	0.166	0.17	182
	Median	0.00881	0.00846	<0.0030	<0.0030	560	0.919	<0.000010	0.00024	0.895	0.632	0.224	0.209	223
	3rd Quartile	0.00913	0.00934	<0.0030	<0.0030	560	1.03	<0.000010	0.00037	1.1	0.904	0.275	0.254	267

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
2 North Portal Sump 2NPS E283433	Average	247	0.00568	0.00324	7.46	0.000192	0.000200	363	1066	0.000118	0.0076	0.0057			
	Count	12	12	12	12	12	12	12	12	12	12	12			
	Minimum	186	<0.0020	<0.0020	7.02	<0.00020	<0.00040	305	820	<0.00020	<0.010	<0.010			
	Maximum	288	0.0278	0.0098	7.96	<0.00040	<0.00040	412	1200	0.00031	0.022	0.013			
	Geometric Mean	245	0.00341	0.00245	7.46	0.000189	0.000200	361	1059	0.000110	0.0066	0.0054			
	Count <DL	0	3	4	0	12	12	0	0	11	9	11			
	Standard Deviation	28	0.00745	0.00262	0.25	0.000029	0.000000	33	125	0.000061	0.0054	0.0023			
	1st Quartile	229	0.00213	0.001	7.31	0.0002	0.0002	344	972	0.0001	0.005	0.005			
	Median	246	0.00305	0.00265	7.47	0.0002	0.0002	370	1100	0.0001	0.005	0.005			
	3rd Quartile	268	0.0057	0.00437	7.59	0.0002	0.0002	390	1200	0.0001	0.0065	0.005			
3-Mains 2North 3M2N	Average	317	0.00276	0.0030	7.22	0.000138	0.000145	259	780	0.000056	0.00569	0.00401	0.00222	0.0100	0.1164
	Count	8	8	8	7	8	8	8	8	8	8	8	5	1	7
	Minimum	256	<0.0020	0.0011	7.06	<0.00020	<0.00020	224	640	<0.00010	<0.0050	<0.0050	<0.0010	<0.020	<0.015
	Maximum	376	0.0065	0.0071	7.43	<0.00040	0.00036	374	1200	<0.00020	0.014	0.012	0.0061	<0.020	0.37
	Geometric Mean	315	0.00209	0.0023	7.22	0.000130	0.000128	256	764	0.000055	0.00446	0.00333	0.00159	0.0100	0.0730
	Count <DL	0	1	0	0	8	7	0	0	8	6	6	4	1	1
	Standard Deviation	36	0.00232	0.0024	0.13	0.000052	0.000094	49	184	0.000018	0.00454	0.00335	0.00221	0.0000	0.1181
	1st Quartile	305	0.0011	0.0012	7.14	0.0001	0.0001	228	662	5.00E-05	0.0025	0.0025	<0.0030	<0.020	0.0585
	Median	313	0.00175	0.0021	7.2	0.0001	0.0001	243	720	5.00E-05	0.00375	0.0025	<0.0030	<0.020	0.1
	3rd Quartile	328	0.00352	0.0036	7.3	0.0002	0.000125	267	822	5.00E-05	0.00662	0.00315	<0.0030	<0.020	0.11
1-Mains 2North 1M2N	Average	431	0.00141	0.00164	6.84	0.000353	0.000170	365	1145	0.000118	0.0590	0.05083	0.00245		0.348
	Count	10	10	10	9	10	10	10	10	10	10	10	6		8
	Minimum	359	<0.0010	<0.0010	6.59	<0.00040	<0.00020	237	680	<0.00010	<0.010	<0.0050	<0.0030		0.092
	Maximum	501	0.0036	0.0066	7.3	0.00144	<0.00040	502	1600	0.00043	0.381	0.336	0.0066		0.53
	Geometric Mean	427	0.00118	0.00117	6.83	0.000268	0.000162	349	1087	0.000094	0.0175	0.01576	0.00203		0.313
	Count <DL	0	8	8	0	7	10	0	0	9	4	4	4		0
	Standard Deviation	60	0.00102	0.00186	0.27	0.000391	0.000048	112	368	0.000112	0.1161	0.10185	0.00205		0.139
	1st Quartile	366	0.001	0.001	6.65	0.0002	0.000125	246	757	6.20E-05	0.005	0.005	0.0015		0.258
	Median	454	0.001	0.001	6.73	0.0002	0.0002	389	1250	0.0001	0.0086	0.0114	0.0015		0.395
	3rd Quartile	483	0.001	0.001	6.98	0.000215	0.0002	461	1475	0.0001	0.052	0.041	0.00195		0.43
5 Mains 2North 5M#2	Average	299	0.00341	0.00081	7.32	0.000402	0.000180	113.3	321	0.000056	0.08411	0.0299	0.00133		0.168
	Count	9	9	9	8	9	9	9	9	9	9	9	6		8
	Minimum	258	<0.0010	<0.0010	6.91	<0.00020	<0.00020	68.3	140	<0.00010	<0.0050	0.0051	<0.0010		0.093
	Maximum	366	0.0249	0.0021	7.6	0.00142	0.00072	191	530	<0.00020	0.546	0.155	<0.0030		0.27
	Geometric Mean	297	0.00100	0.00070	7.32	0.000258	0.000134	106.8	299	0.000054	0.02447	0.0153	0.00125		0.156
	Count <DL	0	6	7	0	4	8	0	0	9	1	0	6		0
	Standard Deviation	37	0.00806	0.00055	0.20	0.000427	0.000205	42.4	121	0.000017	0.17501	0.0480	0.00041		0.070
	1st Quartile	267	<0.0010	<0.0010	7.28	<0.00020	<0.00020	78.9	250	<0.00010	0.0104	0.008	0.0015		0.118
	Median	301	<0.0010	<0.0010	7.32	0.0003	<0.00020	110	310	<0.00010	0.0171	0.0104	0.0015		0.135
	3rd Quartile	325	0.001	<0.0020	7.39	0.00046	<0.00020	136	390	<0.00010	0.044	0.024	0.0015		0.235

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
MW002	Average	0.00219	0.00218	0.00300	0.00300	285.0	0.78	0.0000100	0.000200	4.35	4.59	1.42	1.50	1410.0
	Count	1	4	1	4	4	1	4	4	1	4	1	4	1
	Minimum	0.00219	0.00198	<0.0060	<0.0060	280	0.78	<0.000020	<0.00040	4.35	4.19	1.42	1.40	1410
	Maximum	0.00219	0.00236	<0.0060	<0.0060	300	0.78	<0.000020	<0.00040	4.35	4.93	1.42	1.57	1410
	Geometric Mean	0.00219	0.00218	0.00300	0.00300	284.9	0.78	0.0000100	0.000200	4.35	4.58	1.42	1.50	1410.0
	Count <DL	0	0	1	4	0	0	4	4	0	0	0	0	0
	Standard Deviation	0.00000	0.00017	0.00000	0.00000	10.0	0.00	0.0000000	0.000000	0.00	0.31	0.00	0.07	0.0
	1st Quartile	0.00219	0.00208	<0.0060	0.003	280	0.78	1.00E-05	0.0002	4.35	4.48	1.42	1.48	1410
	Median	0.00219	0.0022	<0.0060	0.003	280	0.78	1.00E-05	0.0002	4.35	4.61	1.42	1.52	1410
	3rd Quartile	0.00219	0.0023	<0.0060	0.003	285	0.78	1.00E-05	0.0002	4.35	4.72	1.42	1.54	1410
MW004	Average	0.00111	0.000364	0.250	0.0088	118.6	0.187	0.0000101	0.00105	0.1251	0.01282	0.0193	0.0259	364.0
	Count	2	4	2	4	4	2	4	4	2	4	2	4	2
	Minimum	0.00102	0.00025	0.236	0.0049	84	0.160	<0.000010	0.00068	0.0772	<0.0050	0.0107	0.0124	349
	Maximum	0.00120	0.00066	0.265	0.0144	170	0.214	0.000025	0.00134	0.173	0.0236	0.0279	0.0526	379
	Geometric Mean	0.00111	0.000332	0.250	0.0080	113.8	0.185	0.0000076	0.00101	0.1156	0.00803	0.0173	0.0215	363.7
	Count <DL	0	0	0	0	0	0	2	0	0	1	0	0	0
	Standard Deviation	0.00013	0.000198	0.021	0.0044	39.9	0.038	0.0000100	0.00031	0.0677	0.01154	0.0122	0.0189	21.2
	1st Quartile	0.00106	0.000254	0.243	0.0055	88.6	0.174	5.00E-06	0.00085	0.1012	0.00302	0.015	0.0127	356.5
	Median	0.00111	0.000272	0.25	0.008	110.1	0.187	5.20E-06	0.00108	0.1251	0.0126	0.0193	0.0193	364
	3rd Quartile	0.00116	0.000382	0.258	0.0112	140	0.2	1.02E-05	0.00128	0.149	0.0224	0.0236	0.0325	371.5
QU1009D	Average		0.1017		0.00150	180.0		0.0000050	0.000100		0.717		0.0602	
	Count		3		3	3		3	3		3		3	
	Minimum		0.0912		<0.0030	180		<0.000010	<0.00020		0.597		0.0540	
	Maximum		0.110		<0.0030	180		<0.000010	<0.00020		0.875		0.0719	
	Geometric Mean		0.1014		0.00150	180.0		0.0000050	0.000100		0.708		0.0597	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.0096		0.00000	0.0		0.0000000	0.000000		0.143		0.0101	
	1st Quartile		0.0976		0.0015	180		5.00E-06	0.0001		0.638		0.0544	
	Median		0.104		<0.0030	180		<0.000010	<0.00020		0.679		0.0547	
	3rd Quartile		0.107		0.0015	180		5.00E-06	0.0001		0.777		0.0633	
QU1009S	Average		0.0873		0.00150	150.0		0.0000050	0.000100		4.85		0.372	
	Count		3		3	3		3	3		3		3	
	Minimum		0.0832		<0.0030	140		<0.000010	<0.00020		4.56		0.359	
	Maximum		0.0941		<0.0030	160		<0.000010	<0.00020		5.22		0.381	
	Geometric Mean		0.0872		0.00150	149.8		0.0000050	0.000100		4.84		0.372	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.0059		0.00000	10.0		0.0000000	0.000000		0.34		0.012	
	1st Quartile		0.084		0.0015	145		5.00E-06	0.0001		4.66		0.368	
	Median		0.0847		<0.0030	150		<0.000010	<0.00020		4.77		0.376	
	3rd Quartile		0.0894		0.0015	155		5.00E-06	0.0001		4.99		0.378	

Notes:

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Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
MW002	Average	60.5	0.0022	0.0023	7.00	0.000200	0.000200	425.8	1350	0.000100	0.0050	0.0050			
	Count	4	1	4	4	1	4	4	4	4	1	4			
	Minimum	52.2	0.0022	0.0021	6.77	<0.00040	<0.00040	390	1300	<0.00020	<0.010	<0.010			
	Maximum	64.1	0.0022	0.0025	7.28	<0.00040	<0.00040	472	1400	<0.00020	<0.010	<0.010			
	Geometric Mean	60.3	0.0022	0.0023	7.00	0.000200	0.000200	424.7	1349	0.000100	0.0050	0.0050			
	Count <DL	0	0	0	0	1	4	0	0	4	1	4			
	Standard Deviation	5.6	0.0000	0.0002	0.27	0.000000	0.000000	34.1	57	0.000000	0.0000	0.0000			
	1st Quartile	59.4	0.0022	0.0022	6.77	<0.00040	0.0002	410.2	1300	0.0001	<0.010	0.005			
	Median	62.8	0.0022	0.0023	6.98	<0.00040	0.0002	420.5	1350	0.0001	<0.010	0.005			
	3rd Quartile	63.9	0.0022	0.0024	7.21	<0.00040	0.0002	436	1400	0.0001	<0.010	0.005			
MW004	Average	31.0	0.00221	0.00153	7.12	0.000062	0.000081	125.0	348	0.000050	0.0128	0.0065	0.005		
	Count	4	2	4	4	2	4	4	4	4	2	4	1		
	Minimum	23.2	0.0021	<0.0010	6.90	<0.00005	<0.00005	110	260	<0.00010	0.0112	0.0039	<0.01		
	Maximum	41.4	0.00232	0.0022	7.25	<0.00020	<0.00020	148	430	<0.00010	0.0145	0.0100	<0.01		
	Geometric Mean	30.2	0.00221	0.00132	7.11	0.000050	0.000071	124.2	340	0.000050	0.0127	0.0061	0.005		
	Count <DL	0	0	1	0	2	4	0	0	4	0	0	1		
	Standard Deviation	8.1	0.00016	0.00080	0.16	0.000053	0.000037	16.5	84	0.000000	0.0023	0.0026	0.000		
	1st Quartile	25.4	0.00215	0.0011	7.04	4.40E-05	8.10E-05	115.2	284	5.00E-05	0.012	0.0052	<0.01		
	Median	29.6	0.00221	0.0017	7.15	6.20E-05	0.0001	121	351	5.00E-05	0.0128	0.006	<0.01		
	3rd Quartile	35.2	0.00226	0.00213	7.23	8.10E-05	0.0001	130.8	415	5.00E-05	0.0137	0.0074	<0.01		
QU1009D	Average	28.8		0.00050	7.53		0.000100	25.6	78.7	0.000260		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	23.3		<0.0010	7.33		<0.00020	23.1	73	<0.00010		<0.0050			
	Maximum	31.8		<0.0010	7.78		<0.00020	27.7	88	0.00068		<0.0050			
	Geometric Mean	28.5		0.00050	7.53		0.000100	25.5	78.4	0.000119		0.00250			
	Count <DL	0		3	0		3	0	0	2		3			
	Standard Deviation	4.7		0.00000	0.23		0.000000	2.3	8.1	0.000364		0.00000			
	1st Quartile	27.2		0.0005	7.4		0.0001	24.6	74	5.00E-05		0.0025			
	Median	31.2		<0.0010	7.48		<0.00020	26	75	<0.00010		<0.0050			
	3rd Quartile	31.5		0.0005	7.63		0.0001	26.8	81.5	0.000365		0.0025			
QU1009S	Average	9.12		0.00050	7.03		0.000100	34.4	111.3	0.000073		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	8.71		<0.0010	6.89		<0.00020	33.1	94	<0.00010		<0.0050			
	Maximum	9.35		<0.0010	7.29		<0.00020	35.5	120	0.00012		<0.0050			
	Geometric Mean	9.11		0.00050	7.03		0.000100	34.4	110.6	0.000067		0.00250			
	Count <DL	0		3	0		3	0	0	2		3			
	Standard Deviation	0.35		0.00000	0.23		0.000000	1.2	15.0	0.000040		0.00000			
	1st Quartile	9		0.0005	6.9		0.0001	33.8	107	5.00E-05		0.0025			
	Median	9.29		<0.0010	6.91		<0.00020	34.6	120	<0.00010		<0.0050			
	3rd Quartile	9.32		0.0005	7.1		0.0001	35	120	8.50E-05		0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0813A	Average		0.413		0.00150	205.0		0.0000050	0.000100		0.254		0.0507	
	Count		4		4	4		4	4		4		4	
	Minimum		0.374		<0.0030	200		<0.000010	<0.00020		0.174		0.0370	
	Maximum		0.455		<0.0030	210		<0.000010	<0.00020		0.289		0.0601	
	Geometric Mean		0.412		0.00150	204.9		0.0000050	0.000100		0.249		0.0499	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.043		0.00000	5.8		0.0000000	0.000000		0.054		0.0098	
	1st Quartile		0.377		0.0015	200		5.00E-06	0.0001		0.248		0.0482	
	Median		0.412		0.0015	205		5.00E-06	0.0001		0.277		0.0528	
	3rd Quartile		0.448		0.0015	210		5.00E-06	0.0001		0.284		0.0554	
QU0813B	Average		0.497		0.00523	206		0.0000050	0.000100		0.261		0.0825	
	Count		3		3	3		3	3		3		3	
	Minimum		0.458		<0.0030	130		<0.000010	<0.00020		0.139		0.0675	
	Maximum		0.533		0.0127	270		<0.000010	<0.00020		0.412		0.102	
	Geometric Mean		0.496		0.00306	197		0.0000050	0.000100		0.237		0.0812	
	Count <DL		0		2	0		3	3		0		0	
	Standard Deviation		0.038		0.00647	70		0.0000000	0.000000		0.139		0.0177	
	1st Quartile		0.48		0.0015	175		5.00E-06	0.0001		0.186		0.0727	
	Median		0.501		<0.0030	220		<0.000010	<0.00020		0.233		0.0779	
	3rd Quartile		0.517		0.0071	245		5.00E-06	0.0001		0.322		0.09	
QU1410	Average		0.110		0.00570	310.0		0.0000190	0.000380		2.18		1.43	
	Count		5		5	5		5	5		5		5	
	Minimum		0.104		<0.0060	300		<0.000020	<0.00040		1.91		1.39	
	Maximum		0.116		<0.015	320		<0.000050	<0.0010		2.48		1.48	
	Geometric Mean		0.110		0.00520	309.9		0.0000173	0.000347		2.17		1.43	
	Count <DL		0		5	0		5	5		0		0	
	Standard Deviation		0.005		0.00246	7.1		0.0000082	0.000164		0.28		0.03	
	1st Quartile		0.107		<0.0060	310		<0.000020	<0.00040		1.99		1.42	
	Median		0.11		<0.015	310		<0.000050	<0.0010		2.04		1.43	
	3rd Quartile		0.111		<0.015	310		<0.000050	<0.0010		2.48		1.45	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0813A	Average	74.0		0.00050	7.76		0.000100	29.8	87.5	0.00064		0.00250			
	Count	4		4	4		4	4	4	4		4			
	Minimum	64.5		<0.0010	7.54		<0.00020	24.1	67	0.00015		<0.0050			
	Maximum	79.0		<0.0010	7.93		<0.00020	41.2	130	0.00108		<0.0050			
	Geometric Mean	73.8		0.00050	7.76		0.000100	29.2	84.5	0.00051		0.00250			
	Count <DL	0		4	0		4	0	0	0		4			
	Standard Deviation	6.5		0.00000	0.17		0.000000	7.7	28.7	0.00038		0.00000			
	1st Quartile	72.8		0.0005	7.67		0.0001	26	73.8	0.0005		0.0025			
	Median	76.2		0.0005	7.79		0.0001	27	76.5	0.00066		0.0025			
	3rd Quartile	77.4		0.0005	7.88		0.0001	30.8	90.2	0.0008		0.0025			
QU0813B	Average	75.1		0.00050	8.03		0.000100	30.3	97	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	28.4		<0.0010	7.87		<0.00020	11.7	32	<0.00010		<0.0050			
	Maximum	115		<0.0010	8.12		<0.00020	52.6	170	<0.00010		<0.0050			
	Geometric Mean	64.4		0.00050	8.03		0.000100	25.4	78	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	43.7		0.00000	0.14		0.000000	20.7	69	0.000000		0.00000			
	1st Quartile	55.2		0.0005	7.98		0.0001	19.2	60	5.00E-05		0.0025			
	Median	81.9		<0.0010	8.09		<0.00020	26.7	89	<0.00010		<0.0050			
	3rd Quartile	98.4		0.0005	8.1		0.0001	39.6	129	5.00E-05		0.0025			
QU1410	Average	61.5		0.00190	6.63		0.000380	616.0	1840	0.000190		0.0095			
	Count	5		5	5		5	5	5	5		5			
	Minimum	50.6		<0.0020	6.47		<0.00040	578	1800	<0.00020		<0.010			
	Maximum	67.8		<0.0050	6.75		<0.0010	660	1900	<0.00050		<0.025			
	Geometric Mean	61.2		0.00173	6.63		0.000347	615.3	1839	0.000173		0.0087			
	Count <DL	0		5	0		5	0	0	5		5			
	Standard Deviation	6.9		0.00082	0.14		0.000164	31.8	54	0.000082		0.0041			
	1st Quartile	59.1		<0.0020	6.48		<0.00040	596	1800	<0.00020		<0.010			
	Median	64.9		<0.0050	6.73		<0.0010	614	1800	<0.00050		<0.025			
	3rd Quartile	65		<0.0050	6.73		<0.0010	632	1900	<0.00050		<0.025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1011S	Average		0.00559		0.00150	145.0		0.0000050	0.000100		0.518		0.0880	
	Count		2		2	2		2	2		2		2	
	Minimum		0.00424		<0.0030	140		<0.000010	<0.00020		0.435		0.0749	
	Maximum		0.00695		<0.0030	150		<0.000010	<0.00020		0.601		0.101	
	Geometric Mean		0.00543		0.00150	144.9		0.0000050	0.000100		0.511		0.0870	
	Count <DL		0		2	0		2	2		0		0	
	Standard Deviation		0.00192		0.00000	7.1		0.0000000	0.000000		0.117		0.0185	
	1st Quartile		0.00492		0.0015	142.5		5.00E-06	0.0001		0.476		0.0814	
	Median		0.00559		0.0015	145		5.00E-06	0.0001		0.518		0.088	
	3rd Quartile		0.00627		0.0015	147.5		5.00E-06	0.0001		0.56		0.0945	
QU1011D	Average		0.0364		0.00915	340.0		0.0000075	0.000150		1.70		0.191	
	Count		2		2	2		2	2		2		2	
	Minimum		0.0271		<0.0060	340		<0.000010	<0.00020		1.19		0.148	
	Maximum		0.0458		0.0153	340		<0.000020	<0.00040		2.20		0.234	
	Geometric Mean		0.0352		0.00677	340.0		0.0000071	0.000141		1.62		0.186	
	Count <DL		0		1	0		2	2		0		0	
	Standard Deviation		0.0132		0.00870	0.0		0.0000035	0.000071		0.71		0.061	
	1st Quartile		0.0318		0.00608	340		6.20E-06	0.000125		1.44		0.169	
	Median		0.0364		0.00915	340		7.50E-06	0.00015		1.7		0.191	
	3rd Quartile		0.0411		0.01222	340		8.80E-06	0.000175		1.95		0.213	
QU1013D	Average		0.00125		0.00265	540.0		0.0000075	0.000150		4.824		0.885	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00037		<0.0030	510		<0.000010	<0.00020		0.506		0.153	
	Maximum		0.00234		0.0031	600		<0.000020	<0.00040		7.87		1.47	
	Geometric Mean		0.00103		0.00254	538.9		0.0000071	0.000141		3.268		0.655	
	Count <DL		0		3	0		4	4		0		0	
	Standard Deviation		0.00081		0.00077	40.8		0.0000029	0.000058		3.218		0.601	
	1st Quartile		0.00091		0.00262	517.5		5.00E-06	0.0001		3.412		0.522	
	Median		0.00114		0.003	525		7.50E-06	0.00015		5.46		0.958	
	3rd Quartile		0.00148		0.00302	547.5		1.00E-05	0.0002		6.873		1.32	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1011S	Average	25.4		0.00050	7.04		0.000100	1.50	5.5	0.000050		0.00250			
	Count	2		2	2		2	2	2	2		2			
	Minimum	23.0		<0.0010	7.02		<0.00020	<3.0	3.3	<0.00010		<0.0050			
	Maximum	27.8		<0.0010	7.05		<0.00020	<3.0	7.7	<0.00010		<0.0050			
	Geometric Mean	25.3		0.00050	7.03		0.000100	1.50	5.0	0.000050		0.00250			
	Count <DL	0		2	0		2	2	0	2		2			
	Standard Deviation	3.4		0.00000	0.02		0.000000	0.00	3.1	0.000000		0.00000			
	1st Quartile	24.2		0.0005	7.03		0.0001	1.5	4.4	5.00E-05		0.0025			
	Median	25.4		0.0005	7.04		0.0001	1.5	5.5	5.00E-05		0.0025			
	3rd Quartile	26.6		0.0005	7.04		0.0001	1.5	6.6	5.00E-05		0.0025			
QU1011D	Average	257.5		0.00075	7.08		0.000150	2.25	1.00	0.000075		0.00375			
	Count	2		2	2		2	2	2	2		2			
	Minimum	215		<0.0010	6.87		<0.00020	<3.0	<1.0	<0.00010		<0.0050			
	Maximum	300		<0.0020	7.29		<0.00040	<6.0	1.5	<0.00020		<0.010			
	Geometric Mean	254.0		0.00071	7.08		0.000141	2.12	0.87	0.000071		0.00354			
	Count <DL	0		2	0		2	2	1	2		2			
	Standard Deviation	60.1		0.00035	0.30		0.000071	1.06	0.71	0.000035		0.00177			
	1st Quartile	236.2		0.00062	6.98		0.000125	1.88	0.75	6.20E-05		0.00312			
	Median	257.5		0.00075	7.08		0.00015	2.25	1	7.50E-05		0.00375			
	3rd Quartile	278.8		0.00088	7.18		0.000175	2.62	1.25	8.80E-05		0.00438			
QU1013D	Average	472		0.00075	6.88		0.000150	327	1005	0.000520		0.00375			0.25
	Count	4		4	4		4	4	4	4		4			1
	Minimum	373		<0.0010	6.49		<0.00020	200	630	<0.00020		<0.0050			0.25
	Maximum	524		<0.0020	7.25		<0.00040	476	1400	0.00162		<0.010			0.25
	Geometric Mean	468		0.00071	6.88		0.000141	304	943	0.000255		0.00354			0.25
	Count <DL	0		4	0		4	0	0	2		4			0
	Standard Deviation	70		0.00029	0.31		0.000058	138	401	0.000737		0.00144			0.00
	1st Quartile	448		0.0005	6.78		0.0001	214	675	0.0001		0.0025			0.25
	Median	497		0.00075	6.9		0.00015	316	995	0.00018		0.00375			0.25
	3rd Quartile	521		0.001	7		0.0002	429	1325	0.0006		0.005			0.25

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1105S	Average		0.1057		0.00188	327		0.0000062	0.000125		1.465		0.1736	
	Count		4		4	4		4	4		4		4	
	Minimum		0.0589		<0.0030	120		<0.000010	<0.00020		0.141		0.0283	
	Maximum		0.133		<0.0060	460		<0.000020	<0.00040		2.70		0.252	
	Geometric Mean		0.1009		0.00178	292		0.0000059	0.000119		0.946		0.1317	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.0336		0.00075	148		0.0000025	0.000050		1.101		0.1014	
	1st Quartile		0.0927		0.0015	277		5.00E-06	0.0001		0.853		0.1428	
	Median		0.1155		0.0015	365		5.00E-06	0.0001		1.51		0.207	
	3rd Quartile		0.1285		0.00188	415		6.20E-06	0.000125		2.122		0.2378	
QU1105D	Average		0.00270		0.0089	310.0		0.0000213	0.000425		0.0106		0.0752	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00141		<0.015	260		<0.000020	<0.00040		<0.010		0.0468	
	Maximum		0.00479		0.0132	350		<0.000050	<0.0010		<0.025		0.112	
	Geometric Mean		0.00237		0.0086	308.2		0.0000199	0.000398		0.0099		0.0713	
	Count <DL		0		3	0		4	4		4		0	
	Standard Deviation		0.00159		0.0029	37.4		0.0000075	0.000150		0.0037		0.0284	
	1st Quartile		0.00148		0.0075	297.5		2.13E-05	0.000425		0.0106		0.0569	
	Median		0.00229		0.0075	315		2.50E-05	0.0005		0.0125		0.071	
	3rd Quartile		0.0035		0.0089	327.5		2.50E-05	0.0005		0.0125		0.0892	
QU1109S	Average	0.1003	0.0931	0.0326	0.00262	482.5	2.08	0.0000088	0.000175	3.92	0.346	0.0569	0.0402	118.2
	Count	2	4	2	4	4	2	4	4	2	4	2	4	2
	Minimum	0.0976	0.0850	0.0112	<0.0030	470	2.08	<0.000010	<0.00020	1.79	0.121	0.0368	0.0257	94.4
	Maximum	0.103	0.102	0.0539	<0.0060	500	2.09	<0.000020	<0.00040	6.04	0.862	0.0770	0.0725	142
	Geometric Mean	0.1003	0.0929	0.0246	0.00252	482.4	2.08	0.0000084	0.000168	3.29	0.251	0.0532	0.0366	115.8
	Count <DL	0	0	0	4	0	0	4	4	0	0	0	0	0
	Standard Deviation	0.0038	0.0083	0.0302	0.00075	12.6	0.01	0.0000025	0.000050	3.01	0.348	0.0284	0.0219	33.7
	1st Quartile	0.099	0.0867	0.0219	0.00262	477.5	2.08	8.80E-06	0.000175	2.85	0.144	0.0468	0.027	106.3
	Median	0.1003	0.0928	0.0326	0.003	480	2.08	1.00E-05	0.0002	3.92	0.201	0.0569	0.0312	118.2
	3rd Quartile	0.1016	0.0991	0.0432	0.003	485	2.09	1.00E-05	0.0002	4.98	0.404	0.067	0.0443	130.1
QU1109M	Average	0.00628	0.00525	0.00300	0.00300	482.0	1.20	0.0000100	0.000200	27.7	24.9	1.286	1.079	666.7
	Count	3	5	3	5	5	3	5	5	3	5	3	5	3
	Minimum	0.00367	0.00341	<0.0060	<0.0060	440	1.10	<0.000020	<0.00040	22.2	18.5	0.977	0.666	635
	Maximum	0.0113	0.0106	<0.0060	<0.0060	500	1.26	<0.000020	<0.00040	30.5	30.9	1.48	1.41	712
	Geometric Mean	0.00544	0.00474	0.00300	0.00300	481.4	1.19	0.0000100	0.000200	27.4	24.5	1.265	1.042	665.9
	Count <DL	0	0	3	5	0	0	5	5	0	0	0	0	0
	Standard Deviation	0.00435	0.00304	0.00000	0.00000	26.8	0.09	0.0000000	0.000000	4.7	5.2	0.270	0.308	40.3
	1st Quartile	0.00378	0.00365	0.003	<0.0060	470	1.16	<0.000020	<0.00040	26.2	21.5	1.188	0.977	644
	Median	0.00388	0.00379	<0.0060	<0.0060	500	1.23	<0.000020	<0.00040	30.3	24.5	1.4	0.983	653
	3rd Quartile	0.00759	0.00481	0.003	<0.0060	500	1.25	<0.000020	<0.00040	30.4	29.3	1.44	1.36	682.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1105S	Average	208.4		0.00062	7.30		0.000125	109.2	317	0.000348		0.00312			
	Count	4		4	4		4	4	4	4		4			
	Minimum	63.8		<0.0010	6.98		<0.00020	21.7	71	<0.00010		<0.0050			
	Maximum	348		<0.0020	7.96		<0.00040	204	570	0.00063		<0.010			
	Geometric Mean	174.4		0.00059	7.29		0.000119	82.0	244	0.000209		0.00297			
	Count <DL	0		4	0		4	0	0	2		4			
	Standard Deviation	123.9		0.00025	0.45		0.000050	78.6	221	0.000315		0.00125			
	1st Quartile	134.4		0.0005	7.02		0.0001	61.8	175	8.80E-05		0.0025			
	Median	211		0.0005	7.13		0.0001	105.6	315	0.000355		0.0025			
	3rd Quartile	285		0.00062	7.4		0.000125	153	457	0.000615		0.00312			
QU1105D	Average	891.2		0.00213	7.64		0.000425	200	352	0.017537		0.0106			
	Count	4		4	4		4	4	4	4		4			
	Minimum	862		<0.0020	7.51		<0.00040	140	250	<0.00050		<0.010			
	Maximum	928		<0.0050	7.82		<0.0010	293	420	0.0332		<0.025			
	Geometric Mean	890.8		0.00199	7.64		0.000398	190	346	0.007236		0.0099			
	Count <DL	0		4	0		4	0	0	1		4			
	Standard Deviation	32.4		0.00075	0.15		0.000150	73	74	0.013644		0.0037			
	1st Quartile	865		0.00213	7.52		0.000425	141	325	0.011913		0.0106			
	Median	887.5		0.0025	7.61		0.0005	184	370	0.01835		0.0125			
	3rd Quartile	913.8		0.0025	7.73		0.0005	243	397	0.023975		0.0125			
QU1109S	Average	330.2	0.01980	0.00088	7.62	0.000200	0.000175	106.9	312	0.001360	0.0480	0.00437			
	Count	4	2	4	4	2	4	4	4	4	2	4			
	Minimum	293	<0.0020	<0.0010	7.5	<0.00040	<0.00020	82.6	240	<0.00020	<0.010	<0.0050			
	Maximum	387	0.0386	<0.0020	7.77	<0.00040	<0.00040	150	440	0.00230	0.091	<0.010			
	Geometric Mean	328.4	0.00621	0.00084	7.62	0.000200	0.000168	104.1	304	0.000845	0.0213	0.00420			
	Count <DL	0	1	4	0	2	4	0	0	1	1	4			
	Standard Deviation	40.9	0.02659	0.00025	0.11	0.000000	0.000050	29.8	87	0.000949	0.0608	0.00125			
	1st Quartile	305.8	0.0104	0.00088	7.56	0.0002	0.000175	90.4	270	0.00094	0.0265	0.00438			
	Median	320.5	0.0198	0.001	7.6	0.0002	0.0002	97.5	285	0.00152	0.048	0.005			
	3rd Quartile	345	0.0292	0.001	7.66	0.0002	0.0002	114	327	0.00194	0.0695	0.005			
QU1109M	Average	473.2	0.00133	0.00100	6.90	0.000200	0.000200	409.4	1280	0.000100	0.0050	0.0050	0.0036		0.25
	Count	5	3	5	5	3	5	5	5	5	3	5	1		1
	Minimum	462	<0.0020	<0.0020	6.58	<0.00040	<0.00040	393	1200	<0.00020	<0.010	<0.010	0.0036		0.25
	Maximum	492	0.0020	<0.0020	7.46	<0.00040	<0.00040	420	1300	<0.00020	<0.010	<0.010	0.0036		0.25
	Geometric Mean	473.1	0.00126	0.00100	6.90	0.000200	0.000200	409.3	1279	0.000100	0.0050	0.0050	0.0036		0.25
	Count <DL	0	2	5	0	3	5	0	0	5	3	5	0		0
	Standard Deviation	11.7	0.00058	0.00000	0.33	0.000000	0.000000	10.6	44	0.000000	0.0000	0.0000	0.0000		0.00
	1st Quartile	466	0.001	<0.0020	6.75	0.0002	<0.00040	405	1300	<0.00020	0.005	<0.010	0.0036		0.25
	Median	470	<0.0020	<0.0020	6.86	<0.00040	<0.00040	414	1300	<0.00020	<0.010	<0.010	0.0036		0.25
	3rd Quartile	476	0.0015	<0.0020	6.87	0.0002	<0.00040	415	1300	<0.00020	0.005	<0.010	0.0036		0.25

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0821GS	Average		0.168		0.00400	200.0		0.0000133	0.000383		0.312		0.0521	
	Count		3		3	3		3	3		3		3	
	Minimum		0.111		<0.0030	190		<0.000010	<0.00020		0.284		0.0384	
	Maximum		0.211		<0.015	210		<0.000050	0.00055		0.345		0.0603	
	Geometric Mean		0.162		0.00323	199.8		0.0000108	0.000302		0.311		0.0511	
	Count <DL		0		3	0		3	2		0		0	
	Standard Deviation		0.052		0.00312	10.0		0.0000104	0.000247		0.031		0.0119	
	1st Quartile		0.147		0.00225	195		7.50E-06	0.0003		0.295		0.048	
	Median		0.183		<0.0060	200		<0.000020	<0.0010		0.306		0.0575	
	3rd Quartile		0.197		0.00525	205		1.75E-05	0.000525		0.326		0.0589	
QU0821GD	Average		0.165		0.0075	206.7		0.0000250	0.00050		0.843		0.0727	
	Count		3		3	3		3	3		3		3	
	Minimum		0.142		<0.015	200		<0.000050	<0.0010		0.615		0.0481	
	Maximum		0.186		<0.015	210		<0.000050	<0.0010		1.03		0.0998	
	Geometric Mean		0.164		0.0075	206.6		0.0000250	0.00050		0.824		0.0696	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.022		0.0000	5.8		0.0000000	0.00000		0.211		0.0259	
	1st Quartile		0.154		0.0075	205		2.50E-05	0.0005		0.75		0.0591	
	Median		0.167		<0.015	210		<0.000050	<0.0010		0.884		0.0701	
	3rd Quartile		0.176		0.0075	210		2.50E-05	0.0005		0.957		0.085	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0821GS	Average	207		0.00133	7.93		0.000267	4.00	1.10	0.000170		0.00667			
	Count	3		3	3		3	3	3	3		3			
	Minimum	104		<0.0010	7.59		<0.00020	<3.0	<1.0	<0.00020		<0.0050			
	Maximum	332		<0.0050	8.11		<0.0010	<15	2.3	<0.00050		<0.025			
	Geometric Mean	185		0.00108	7.93		0.000215	3.23	0.83	0.000159		0.00539			
	Count <DL	0		3	0		3	3	2	2		3			
	Standard Deviation	115		0.00104	0.29		0.000208	3.12	1.04	0.000075		0.00520			
	1st Quartile	144		0.00075	7.84		0.00015	2.25	0.5	0.00013		0.00375			
	Median	185		<0.0020	8.09		<0.00040	<6.0	<1.0	0.00016		<0.010			
	3rd Quartile	258		0.00175	8.1		0.00035	5.25	1.4	0.000205		0.00875			
QU0821GD	Average	477		0.00250	7.64		0.00050	7.5	1.33	0.000250		0.0125			
	Count	3		3	3		3	3	3	3		3			
	Minimum	402		<0.0050	7.36		<0.0010	<15	<1.0	<0.00050		<0.025			
	Maximum	567		<0.0050	8.02		<0.0010	<15	3.0	<0.00050		<0.025			
	Geometric Mean	472		0.00250	7.63		0.00050	7.5	0.91	0.000250		0.0125			
	Count <DL	0		3	0		3	3	2	3		3			
	Standard Deviation	83		0.00000	0.34		0.00000	0.0	1.44	0.000000		0.0000			
	1st Quartile	433		0.0025	7.45		0.0005	7.5	0.5	0.00025		0.0125			
	Median	464		<0.0050	7.54		<0.0010	<15	<1.0	<0.00050		<0.025			
	3rd Quartile	515		0.0025	7.78		0.0005	7.5	1.75	0.00025		0.0125			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seepage (S)	Average	0.0356	0.0315	0.0328	0.01197	395	1.565	0.0000110	0.000502	0.430	0.1286	0.1549	0.1218	96.9
	Count	26	26	26	26	26	26	26	26	26	26	26	26	26
	Minimum	0.0138	0.0117	0.0065	<0.0060	110	0.597	<0.000010	<0.00020	0.131	0.0276	0.0153	0.0061	67.8
	Maximum	0.0748	0.0715	0.170	0.0335	490	2.17	0.000106	0.00138	1.71	0.243	0.521	0.516	135
	Geometric Mean	0.0316	0.0269	0.0219	0.00949	381	1.522	0.0000076	0.000387	0.353	0.1155	0.0920	0.0504	95.2
	Count <DL	0	0	0	3	0	0	24	7	0	0	0	0	0
	Standard Deviation	0.0176	0.0180	0.0348	0.00844	88	0.334	0.0000195	0.000362	0.340	0.0561	0.1489	0.1484	18.5
	1st Quartile	0.0216	0.0175	0.0102	0.00605	342	1.42	5.00E-06	0.000208	0.25	0.0952	0.0322	0.0191	82.7
	Median	0.0304	0.0272	0.0234	0.0086	415	1.635	5.00E-06	0.00044	0.34	0.108	0.0797	0.0448	96.4
	3rd Quartile	0.0482	0.0444	0.0478	0.01522	467	1.768	1.00E-05	0.000615	0.463	0.1727	0.263	0.2218	103.8
Seep Upstream (SUS)	Average	0.108	0.1032	0.0092	0.00525	470.0	1.84	0.0000100	0.000200	0.198	0.223	0.0442	0.0586	93.0
	Count	2	2	2	2	2	2	2	2	2	2	2	2	2
	Minimum	0.105	0.0944	0.0052	<0.0060	470	1.77	<0.000020	<0.00040	0.069	0.057	0.0306	0.0310	92.4
	Maximum	0.112	0.112	0.0132	0.0075	470	1.90	<0.000020	<0.00040	0.328	0.389	0.0577	0.0861	93.6
	Geometric Mean	0.108	0.1028	0.0083	0.00474	470.0	1.83	0.0000100	0.000200	0.150	0.149	0.0420	0.0517	93.0
	Count <DL	0	0	0	1	0	0	2	2	0	0	0	0	0
	Standard Deviation	0.005	0.0124	0.0057	0.00318	0.0	0.09	0.0000000	0.000000	0.183	0.235	0.0192	0.0390	0.8
	1st Quartile	0.107	0.0988	0.0072	0.00412	470	1.8	1.00E-05	0.0002	0.134	0.14	0.0374	0.0448	92.7
	Median	0.108	0.1032	0.0092	0.00525	470	1.84	1.00E-05	0.0002	0.198	0.223	0.0442	0.0586	93
	3rd Quartile	0.11	0.1076	0.0112	0.00638	470	1.87	1.00E-05	0.0002	0.263	0.306	0.0509	0.0723	93.3
Seepage 2B (S2B)	Average	0.0582	0.0395	0.0168	0.00348	383.3	0.831	0.0000065	0.000160	1.45	0.885	0.306	0.278	211
	Count	4	4	4	4	3	4	4	4	4	4	4	4	4
	Minimum	0.0402	0.0368	0.0077	<0.0030	370	0.614	<0.000010	<0.00020	1.06	0.342	0.202	0.200	106
	Maximum	0.0908	0.0424	0.0415	0.0056	390	0.934	0.000011	0.00022	1.85	1.21	0.498	0.387	252
	Geometric Mean	0.0555	0.0395	0.0127	0.00314	383.2	0.820	0.0000061	0.000148	1.42	0.799	0.289	0.270	199
	Count <DL	0	0	0	1	0	0	3	2	0	0	0	0	0
	Standard Deviation	0.0223	0.0028	0.0165	0.00168	11.5	0.147	0.0000030	0.000069	0.33	0.376	0.131	0.078	70
	1st Quartile	0.0483	0.0373	0.0079	0.00285	380	0.804	5.00E-06	0.0001	1.31	0.818	0.247	0.246	203
	Median	0.051	0.0394	0.0091	0.0034	390	0.888	5.00E-06	0.00016	1.45	0.994	0.263	0.262	243
	3rd Quartile	0.061	0.0416	0.018	0.00402	390	0.915	6.50E-06	0.00022	1.6	1.06	0.322	0.294	250

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 49 Statistics 2020 to 2021 28 Page(s)

2021-2022	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seepage (S)	Average	246.1	0.00073	0.00069	7.95	0.000123	0.000138	68.8	209	0.000069	0.00465	0.00380	0.00528	0.1018	0.1161
	Count	26	26	26	24	26	26	26	26	26	26	26	22	17	24
	Minimum	67.5	<0.0010	<0.0010	7.27	<0.00020	<0.00020	34.9	110	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	331	0.0039	<0.0020	8.42	<0.00040	<0.00040	115	360	<0.00020	0.030	0.010	0.016	0.344	0.44
	Geometric Mean	236.0	0.00062	0.00065	7.95	0.000117	0.000131	66.1	201	0.000065	0.00332	0.00347	0.00440	0.0610	0.0714
	Count <DL	0	25	26	0	26	26	0	0	26	24	24	5	3	3
	Standard Deviation	60.5	0.00068	0.00025	0.26	0.000043	0.000050	20.8	60	0.000025	0.00633	0.00182	0.00333	0.1014	0.1013
	1st Quartile	212.2	0.0005	0.0005	7.85	0.0001	0.0001	57.7	180	5.00E-05	0.0025	0.0025	0.00348	0.028	0.0482
	Median	262	0.0005	0.0005	8	0.0001	0.0001	61.5	190	5.00E-05	0.0025	0.0025	0.0049	0.074	0.1045
	3rd Quartile	291.8	0.0005	0.001	8.1	0.0001	0.0002	73.4	237	0.0001	0.0025	0.005	0.0063	0.119	0.17
	Average	308.0	0.00075	0.00100	7.84	0.000150	0.000200	81.1	220.0	0.000445	0.00375	0.0050	0.024	0.0100	0.33
	Count	2	2	2	2	2	2	2	2	2	2	2	1	1	1
Seep Upstream (SUS)	Minimum	301	<0.0010	<0.0020	7.76	<0.00020	<0.00040	76.0	210	<0.00020	<0.0050	<0.010	0.024	<0.020	0.33
	Maximum	315	<0.0020	<0.0020	7.93	<0.00040	<0.00040	86.2	230	0.00079	<0.010	<0.010	0.024	<0.020	0.33
	Geometric Mean	307.9	0.00071	0.00100	7.84	0.000141	0.000200	80.9	219.8	0.000281	0.00354	0.0050	0.024	0.0100	0.33
	Count <DL	0	2	2	0	2	2	0	0	1	2	2	0	1	0
	Standard Deviation	9.9	0.00035	0.00000	0.12	0.000071	0.000000	7.2	14.1	0.000488	0.00177	0.0000	0.000	0.0000	0.00
	1st Quartile	304.5	0.00062	0.001	7.8	0.000125	0.0002	78.6	215	0.000272	0.00312	0.005	0.024	<0.020	0.33
	Median	308	0.00075	0.001	7.84	0.00015	0.0002	81.1	220	0.000445	0.00375	0.005	0.024	<0.020	0.33
	3rd Quartile	311.5	0.00088	0.001	7.89	0.000175	0.0002	83.6	225	0.000618	0.00438	0.005	0.024	<0.020	0.33
	Average	193	0.00050	0.00050	7.29	0.000100	0.000100	103.7	300	0.000050	0.00250	0.00250	0.0065	0.029	0.21
	Count	4	4	4	4	4	4	4	4	4	4	4	2	2	1
	Minimum	112	<0.0010	<0.0010	6.9	<0.00020	<0.00020	51.8	160	<0.00010	<0.0050	<0.0050	0.0031	0.028	0.21
	Maximum	227	<0.0010	<0.0010	7.62	<0.00020	<0.00020	126	380	<0.00010	<0.0050	<0.0050	0.0099	0.03	0.21
Seepage 2B (S2B)	Geometric Mean	186	0.00050	0.00050	7.29	0.000100	0.000100	97.8	284	0.000050	0.00250	0.00250	0.0055	0.029	0.21
	Count <DL	0	4	4	0	4	4	0	0	4	4	4	0	0	0
	Standard Deviation	54	0.00000	0.00000	0.31	0.000000	0.000000	34.9	99	0.000000	0.00000	0.00000	0.0048	0.001	0.00
	1st Quartile	187	0.0005	0.0005	7.14	0.0001	0.0001	99.2	265	5.00E-05	0.0025	0.0025	0.0048	0.028	0.21
	Median	217	0.0005	0.0005	7.32	0.0001	0.0001	118.5	330	5.00E-05	0.0025	0.0025	0.0065	0.029	0.21
	3rd Quartile	224	0.0005	0.0005	7.47	0.0001	0.0001	123	365	5.00E-05	0.0025	0.0025	0.0082	0.03	0.21

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.000117	0.000102	0.0210	0.0155	21.3	0.0250	0.0000050	0.00052	0.015	0.0088	0.0015	0.00050	20.3
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0134	0.0092	17	<0.050	<0.000010	0.00048	0.011	0.0063	0.0011	<0.0010	18.1
	Maximum	0.00018	0.00020	0.0307	0.0233	23	<0.050	<0.000010	0.00056	0.022	0.0122	0.0024	<0.0010	22.1
	Geometric Mean	0.000111	0.000090	0.0205	0.0150	21.3	0.0250	0.0000050	0.00052	0.015	0.0087	0.0015	0.00050	20.3
	Count <DL	2	6	0	0	0	15	15	0	0	0	0	15	0
	Standard Deviation	0.000034	0.000050	0.0048	0.0043	1.5	0.0000	0.0000000	0.00002	0.003	0.0016	0.0004	0.00000	1.1
	1st Quartile	0.000105	5.00E-05	0.0178	0.0127	21	0.025	5.00E-06	0.00051	0.013	0.0078	0.0013	0.0005	20.1
	Median	0.00012	0.00011	0.022	0.0156	21	<0.050	<0.000010	0.00052	0.015	0.0091	0.0014	<0.0010	20.4
	3rd Quartile	0.00014	0.000135	0.0237	0.0164	22.5	0.025	5.00E-06	0.00053	0.016	0.0096	0.0017	0.0005	21.1
Mid Quinsam Lake Outlet WB E0900504	Average	0.00018	0.00017	0.0146	0.0112	41.3	0.0536	0.0000050	0.00045	0.039	0.0225	0.0087	0.0037	39.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00012	0.00011	0.0051	0.0038	37	<0.050	<0.000010	0.00034	0.026	0.0142	0.0051	0.0014	35.6
	Maximum	0.00026	0.00031	0.0223	0.0173	45	0.069	<0.000010	0.00057	0.066	0.0318	0.0170	0.0076	53.3
	Geometric Mean	0.00018	0.00017	0.0134	0.0098	41.2	0.0507	0.0000050	0.00045	0.038	0.0220	0.0081	0.0033	38.9
	Count <DL	0	0	0	0	0	3	15	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00005	0.0056	0.0051	2.8	0.0157	0.0000000	0.00006	0.010	0.0049	0.0035	0.0018	4.2
	1st Quartile	0.00014	0.00014	0.0092	0.0052	39	0.0525	5.00E-06	0.00042	0.034	0.0191	0.0062	0.0023	36.8
	Median	0.00016	0.00016	0.0157	0.0126	42	0.059	<0.000010	0.00045	0.039	0.0221	0.0074	0.0036	38.7
	3rd Quartile	0.00022	0.00019	0.0182	0.0152	43.5	0.0645	5.00E-06	0.00048	0.042	0.0254	0.0106	0.0045	39.4
Quinsam River Downstream 1 QRDS1 E286930	Average	0.00058	0.00050	0.0179	0.0112	42.7	0.064	0.0000050	0.00045	0.055	0.0226	0.0074	0.00213	39.2
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00027	0.00023	0.0053	0.0030	38	0.054	<0.000010	0.00036	0.023	0.0132	0.0028	<0.0010	35.7
	Maximum	0.00080	0.00071	0.0304	0.0195	47	0.083	<0.000010	0.00054	0.194	0.0300	0.0151	0.0039	45.4
	Geometric Mean	0.00053	0.00046	0.0150	0.0090	42.7	0.063	0.0000050	0.00044	0.046	0.0220	0.0062	0.00187	39.1
	Count <DL	0	0	0	0	0	0	15	0	0	0	0	1	0
	Standard Deviation	0.00022	0.00019	0.0090	0.0062	2.5	0.010	0.0000000	0.00005	0.042	0.0054	0.0047	0.00101	2.7
	1st Quartile	0.00031	0.00027	0.0076	0.0036	41.5	0.057	5.00E-06	0.00041	0.03	0.0184	0.0037	0.00135	37.6
	Median	0.00068	0.00061	0.022	0.0121	42	0.06	<0.000010	0.00045	0.047	0.0245	0.0051	0.0019	38.4
	3rd Quartile	0.00074	0.00062	0.0244	0.0164	44.5	0.069	5.00E-06	0.00048	0.056	0.027	0.0124	0.0029	39.8
7 South Quinsam River 7SQR E292113	Average	0.00063	0.00057	0.0254	0.0123	42.3	0.065	0.0000050	0.00046	0.100	0.0598	0.0082	0.0059	38.4
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00037	0.00033	0.0081	0.0043	35	0.051	<0.000010	0.00036	0.063	0.0513	0.0054	0.0044	35.6
	Maximum	0.00086	0.00084	0.0400	0.0230	48	0.080	<0.000010	0.00079	0.144	0.0740	0.0138	0.0081	45.5
	Geometric Mean	0.00060	0.00054	0.0218	0.0106	42.1	0.064	0.0000050	0.00046	0.098	0.0593	0.0078	0.0058	38.3
	Count <DL	0	0	0	0	0	0	15	0	0	0	0	0	0
	Standard Deviation	0.00019	0.00017	0.0123	0.0064	4.1	0.010	0.0000000	0.00010	0.022	0.0081	0.0029	0.0011	2.7
	1st Quartile	0.0004	0.00038	0.0106	0.0061	39	0.057	5.00E-06	0.0004	0.084	0.0523	0.0062	0.0049	36.2
	Median	0.00068	0.00058	0.0289	0.0123	42	0.063	<0.000010	0.00046	0.101	0.0565	0.0068	0.0056	37.7
	3rd Quartile	0.0008	0.00068	0.0348	0.0174	46	0.075	5.00E-06	0.0005	0.114	0.0659	0.0112	0.0064	40.1
Iron River & Quinsam River IRQR E299256	Average	0.00073	0.00067	0.0307	0.0197	39.7	0.0499	0.0000050	0.00048	0.086	0.0503	0.0065	0.0046	36.2
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00042	0.00042	0.0073	0.0060	27	<0.050	<0.000010	0.00041	0.058	0.0374	0.0035	0.0025	27.1
	Maximum	0.00105	0.00095	0.0720	0.0487	47	0.076	<0.000010	0.00057	0.127	0.0655	0.0114	0.0077	42.2
	Geometric Mean	0.00071	0.00065	0.0244	0.0149	39.1	0.0457	0.0000050	0.00048	0.083	0.0494	0.0059	0.0043	35.7
	Count <DL	0	0	0	0	0	5	15	0	0	0	0	0	0
	Standard Deviation	0.00017	0.00015	0.0200	0.0156	7.1	0.0194	0.0000000	0.00005	0.020	0.0098	0.0030	0.0017	5.6
	1st Quartile	0.00068	0.0006	0.0133	0.009	34	0.025	5.00E-06	0.00046	0.07	0.0416	0.0042	0.0032	31.2
	Median	0.00073	0.00069	0.0264	0.012	43	0.056	<0.000010	0.00047	0.085	0.0507	0.0052	0.0048	38.1
	3rd Quartile	0.0008	0.00074	0.0416	0.0309	45	0.0635	5.00E-06	0.00052	0.1	0.0578	0.009	0.0059	41.3

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.691	0.00050	0.00050	7.29	0.000100	0.000100	1.50	1.33	0.000050	0.00250	0.00250	0.00183	0.0112	0.0075
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	0.618	<0.0010	<0.0010	6.3	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	0.807	<0.0010	<0.0010	7.92	<0.00020	<0.00020	<3.0	2.9	<0.00010	<0.0050	<0.0050	0.0033	0.023	<0.015
	Geometric Mean	0.689	0.00050	0.00050	7.26	0.000100	0.000100	1.50	1.15	0.000050	0.00250	0.00250	0.00174	0.0108	0.0075
	Count <DL	0	15	15	0	15	15	15	4	15	15	15	8	10	11
	Standard Deviation	0.058	0.00000	0.00000	0.60	0.000000	0.000000	0.00	0.68	0.000000	0.00000	0.00000	0.00070	0.0039	0.0000
	1st Quartile	0.647	0.0005	0.0005	6.82	0.0001	0.0001	1.5	0.75	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	0.668	<0.0010	<0.0010	7.58	<0.00020	<0.00020	<3.0	1.4	<0.00010	<0.0050	<0.0050	0.0015	<0.020	<0.015
	3rd Quartile	0.73	0.0005	0.0005	7.79	0.0001	0.0001	1.5	1.6	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
Mid Quinsam Lake Outlet WB E0900504	Average	15.3	0.00050	0.00050	7.53	0.000100	0.000100	10.4	32.5	0.000050	0.00250	0.00250	0.00191	0.0100	0.0132
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	12.5	<0.0010	<0.0010	6.87	<0.00020	<0.00020	8.9	26	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	17.4	<0.0010	<0.0010	7.94	<0.00020	<0.00020	12.7	40	<0.00010	<0.0050	<0.0050	0.0036	<0.020	0.061
	Geometric Mean	15.2	0.00050	0.00050	7.52	0.000100	0.000100	10.4	32.2	0.000050	0.00250	0.00250	0.00178	0.0100	0.0098
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	8	11	9
	Standard Deviation	1.7	0.00000	0.00000	0.36	0.000000	0.000000	1.0	3.9	0.000000	0.00000	0.00000	0.00086	0.0000	0.0161
	1st Quartile	13.9	0.0005	0.0005	7.2	0.0001	0.0001	9.8	30	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	15.7	<0.0010	<0.0010	7.66	<0.00020	<0.00020	10.1	32	<0.00010	<0.0050	<0.0050	0.0015	<0.020	<0.015
	3rd Quartile	16.5	0.0005	0.0005	7.78	0.0001	0.0001	10.8	35	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
Quinsam River Downstream 1 QRDS1 E286930	Average	16.2	0.00050	0.00050	7.55	0.000133	0.000100	10.4	32.1	0.000050	0.00250	0.00250	0.00228	0.0111	0.0151
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	13.6	<0.0010	<0.0010	6.68	<0.00020	<0.00020	9.3	26	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	18.8	<0.0010	<0.0010	8.2	0.00060	<0.00020	12.1	40	<0.00010	<0.0050	<0.0050	0.0043	0.022	0.061
	Geometric Mean	16.2	0.00050	0.00050	7.54	0.000113	0.000100	10.4	31.9	0.000050	0.00250	0.00250	0.00203	0.0107	0.0105
	Count <DL	0	15	15	0	14	15	0	0	15	15	15	7	10	9
	Standard Deviation	1.8	0.00000	0.00000	0.45	0.000129	0.000000	0.8	3.9	0.000000	0.00000	0.00000	0.00126	0.0036	0.0178
	1st Quartile	15	0.0005	0.0005	7.39	0.0001	0.0001	10	29.5	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	16.4	<0.0010	<0.0010	7.52	<0.00020	<0.00020	10.4	32	<0.00010	<0.0050	<0.0050	0.0015	<0.020	<0.015
	3rd Quartile	17.8	0.0005	0.0005	7.85	0.0001	0.0001	10.6	33.5	5.00E-05	0.0025	0.0025	0.0033	0.01	0.0075
7 South Quinsam River 7SQR E292113	Average	15.6	0.00050	0.00050	7.37	0.000100	0.000100	9.9	31.0	0.000050	0.00250	0.00250	0.00281	0.0160	0.0075
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	12.4	<0.0010	<0.0010	6.56	<0.00020	<0.00020	8.8	25	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	18.9	<0.0010	<0.0010	8.06	<0.00020	<0.00020	12.0	39	<0.00010	<0.0050	<0.0050	0.0049	0.037	<0.015
	Geometric Mean	15.4	0.00050	0.00050	7.36	0.000100	0.000100	9.9	30.8	0.000050	0.00250	0.00250	0.00255	0.0137	0.0075
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	4	8	11
	Standard Deviation	2.3	0.00000	0.00000	0.43	0.000000	0.000000	1.0	3.6	0.000000	0.00000	0.00000	0.00123	0.0105	0.0000
	1st Quartile	13.4	0.0005	0.0005	7.14	0.0001	0.0001	9.1	30	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	15.8	<0.0010	<0.0010	7.4	<0.00020	<0.00020	9.7	31	<0.00010	<0.0050	<0.0050	0.00325	<0.020	<0.015
	3rd Quartile	17.8	0.0005	0.0005	7.66	0.0001	0.0001	10.4	32	5.00E-05	0.0025	0.0025	0.0034	0.0195	0.0075
Iron River & Quinsam River IRQR E299256	Average	11.70	0.00050	0.00050	7.40	0.000100	0.000100	7.3	23.5	0.000065	0.00250	0.00273	0.00285	0.0220	0.0075
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	5.83	<0.0010	<0.0010	7.02	<0.00020	<0.00020	3.7	15	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	16.9	<0.0010	<0.0010	7.92	<0.00020	<0.00020	9.5	33	0.00014	<0.0050	0.0060	0.0056	0.040	<0.015
	Geometric Mean	11.02	0.00050	0.00050	7.39	0.000100	0.000100	7.0	22.8	0.000060	0.00250	0.00265	0.00256	0.0187	0.0075
	Count <DL	0	15	15	0	15	15	0	0	12	15	14	4	5	11
	Standard Deviation	3.93	0.00000	0.00000	0.24	0.000000	0.000000	2.0	6.1	0.000032	0.00000	0.00090	0.00137	0.0122	0.0000
	1st Quartile	7.7	0.0005	0.0005	7.23	0.0001	0.0001	5.6	18	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	13.2	<0.0010	<0.0010	7.38	<0.00020	<0.00020	8.3	25	<0.00010	<0.0050	<0.0050	0.0031	0.024	<0.015
	3rd Quartile	14.5	0.0005	0.0005	7.56	0.0001	0.0001	8.8	27.5	5.00E-05	0.0025	0.0025	0.00335	0.0305	0.0075

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake Outlet NNO E217017	Average	0.00040	0.00038	0.0277	0.0225	13.9	0.0250	0.0000050	0.00047	0.108	0.0801	0.0081	0.0061	15.2
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00023	0.00020	0.0140	0.0127	10	<0.050	<0.000010	0.00033	0.049	0.0311	0.0025	0.0017	12.3
	Maximum	0.00063	0.00062	0.0472	0.0364	17	<0.050	<0.000010	0.00116	0.167	0.145	0.0118	0.0095	17.4
	Geometric Mean	0.00038	0.00036	0.0257	0.0208	13.7	0.0250	0.0000050	0.00045	0.100	0.0708	0.0076	0.0056	15.1
	Count <DL	0	0	0	0	0	15	15	0	0	0	0	0	0
	Standard Deviation	0.00014	0.00014	0.0113	0.0096	2.7	0.0000	0.0000000	0.00020	0.040	0.0395	0.0027	0.0022	2.0
	1st Quartile	0.00026	0.00025	0.019	0.0142	11	0.025	5.00E-06	0.00038	0.071	0.0424	0.0064	0.0048	12.8
	Median	0.00037	0.00035	0.0233	0.0184	15	<0.050	<0.000010	0.00043	0.115	0.082	0.0072	0.0052	15.6
	3rd Quartile	0.00053	0.00048	0.0375	0.0334	16	0.025	5.00E-06	0.00044	0.133	0.1046	0.0106	0.0082	16.9
Long Lake Outlet LLO E219412	Average	0.00049	0.00044	0.0205	0.0138	27.8	0.0393	0.0000050	0.00033	0.064	0.0393	0.0111	0.0052	60.8
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00027	0.00026	0.0056	0.0034	16	<0.050	<0.000010	0.00026	0.021	0.0121	0.0040	0.0014	31.9
	Maximum	0.00067	0.00067	0.0395	0.0307	38	0.074	<0.000010	0.00041	0.111	0.0763	0.0249	0.0198	100
	Geometric Mean	0.00046	0.00042	0.0164	0.0099	27.0	0.0349	0.0000050	0.00032	0.055	0.0327	0.0096	0.0037	57.3
	Count <DL	0	0	0	0	0	10	15	0	0	0	0	0	0
	Standard Deviation	0.00015	0.00014	0.0129	0.0110	6.7	0.0212	0.0000000	0.00005	0.033	0.0223	0.0066	0.0052	22.2
	1st Quartile	0.00032	0.00029	0.0075	0.0044	23.5	0.025	5.00E-06	0.00028	0.028	0.0152	0.0065	0.002	44.5
	Median	0.00049	0.00045	0.0182	0.008	26	<0.050	<0.000010	0.00033	0.067	0.0403	0.0104	0.0027	53
	3rd Quartile	0.00064	0.00053	0.0346	0.0266	34.5	0.063	5.00E-06	0.00036	0.09	0.0526	0.0123	0.0056	83.6
Iron River Site 6 IR6 E297231	Average	0.00228	0.00218	0.0286	0.0225	43.0	0.0250	0.0000094	0.00054	0.0173	0.0117	0.00114	0.00065	47.0
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00095	0.00096	0.0191	0.0155	31	<0.050	<0.000010	0.00038	<0.010	0.0052	<0.0010	<0.0010	34.6
	Maximum	0.00416	0.00406	0.0470	0.0380	61	<0.050	0.000014	0.00064	0.035	0.0215	0.0019	0.0014	65.7
	Geometric Mean	0.00204	0.00193	0.0275	0.0216	42.0	0.0250	0.0000086	0.00053	0.0142	0.0103	0.00105	0.00060	45.8
	Count <DL	0	0	0	0	0	10	4	0	2	0	2	8	0
	Standard Deviation	0.00113	0.00113	0.0093	0.0070	10.2	0.0000	0.0000040	0.00010	0.0108	0.0060	0.00045	0.00032	11.6
	1st Quartile	0.00162	0.00151	0.0226	0.0174	36	0.025	5.00E-06	0.00046	0.0102	0.0064	0.00103	0.0005	38.4
	Median	0.00168	0.00158	0.0263	0.0215	39	0.025	1.05E-05	0.00055	0.014	0.0096	0.0011	0.0005	43.4
	3rd Quartile	0.00299	0.00292	0.0299	0.0244	50	0.025	1.28E-05	0.00063	0.026	0.0171	0.00132	0.0005	56
Iron River Site 8 IR8 E297232	Average	0.00536	0.00525	0.0285	0.0213	43.6	0.0250	0.0000080	0.00059	0.0208	0.0130	0.00143	0.00083	46.7
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00172	0.00178	0.0187	0.0140	30	<0.050	<0.000010	0.00051	<0.010	0.0077	<0.0010	<0.0010	33.3
	Maximum	0.00921	0.00953	0.0428	0.0345	61	<0.050	0.000013	0.00073	0.042	0.0210	0.0026	0.0019	64.5
	Geometric Mean	0.00475	0.00459	0.0274	0.0205	42.5	0.0250	0.0000072	0.00059	0.0175	0.0120	0.00131	0.00071	45.5
	Count <DL	0	0	0	0	0	10	6	0	1	0	1	7	0
	Standard Deviation	0.00257	0.00267	0.0087	0.0064	10.5	0.0000	0.0000039	0.00008	0.0119	0.0053	0.00062	0.00055	11.4
	1st Quartile	0.00362	0.00352	0.0219	0.0163	35.8	0.025	5.00E-06	0.00054	0.0112	0.0083	0.0011	0.0005	37.6
	Median	0.0048	0.00456	0.0267	0.0211	40.5	0.025	5.00E-06	0.00055	0.018	0.0108	0.00125	0.0005	43.3
	3rd Quartile	0.00739	0.00714	0.0326	0.0236	52.2	0.025	1.20E-05	0.00066	0.0305	0.018	0.00182	0.0011	56.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake Outlet NNO E217017	Average	1.159	0.00050	0.00050	7.18	0.000100	0.000124	1.50	1.97	0.000050	0.00250	0.00250	0.00340	0.0895	0.0088
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	0.961	<0.0010	<0.0010	6.21	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	1.28	<0.0010	<0.0010	7.98	<0.00020	0.00046	<3.0	3.8	<0.00010	<0.0050	<0.0050	0.0054	0.813	0.022
	Geometric Mean	1.155	0.00050	0.00050	7.16	0.000100	0.000111	1.50	1.71	0.000050	0.00250	0.00250	0.00307	0.0215	0.0083
	Count <DL	0	15	15	0	15	14	15	2	15	15	15	3	6	10
	Standard Deviation	0.104	0.00000	0.00000	0.45	0.000000	0.000093	0.00	0.95	0.000000	0.00000	0.00000	0.00141	0.2401	0.0044
	1st Quartile	1.065	0.0005	0.0005	6.95	0.0001	0.0001	1.5	1.35	5.00E-05	0.0025	0.0025	0.00202	0.01	0.0075
	Median	1.19	<0.0010	<0.0010	7.2	<0.00020	<0.00020	<3.0	2	<0.00010	<0.0050	<0.0050	0.00375	<0.020	<0.015
	3rd Quartile	1.245	0.0005	0.0005	7.46	0.0001	0.0001	1.5	2.5	5.00E-05	0.0025	0.0025	0.00435	0.0275	0.0075
Long Lake Outlet LLO E219412	Average	5.79	0.00050	0.00050	7.27	0.000100	0.000100	14.6	45.7	0.000050	0.00250	0.00250	0.00223	0.0115	0.0106
	Count	15	15	15	15	15	15	15	15	15	15	15	10	11	11
	Minimum	2.92	<0.0010	<0.0010	6.81	<0.00020	<0.00020	6.5	22	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	9.29	<0.0010	<0.0010	7.74	<0.00020	<0.00020	24.7	82	<0.00010	<0.0050	<0.0050	0.0045	0.026	0.029
	Geometric Mean	5.38	0.00050	0.00050	7.26	0.000100	0.000100	13.4	42.5	0.000050	0.00250	0.00250	0.00200	0.0109	0.0093
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	7	10	9
	Standard Deviation	2.38	0.00000	0.00000	0.31	0.000000	0.000000	6.5	18.7	0.000000	0.00000	0.00000	0.00122	0.0048	0.0072
	1st Quartile	4.16	0.0005	0.0005	7	0.0001	0.0001	10.5	33	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	4.35	<0.0010	<0.0010	7.27	<0.00020	<0.00020	11.5	37	<0.00010	<0.0050	<0.0050	0.0015	<0.020	<0.015
	3rd Quartile	8.56	0.0005	0.0005	7.56	0.0001	0.0001	22.2	63.5	5.00E-05	0.0025	0.0025	0.00278	0.01	0.0075
Iron River Site 6 IR6 E297231	Average	1.68	0.00050	0.00050	7.32	0.000100	0.000100	1.50	6.3	0.00026	0.00275	0.00250	0.00310	0.0371	0.0099
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	1.11	<0.0010	<0.0010	6.78	<0.00020	<0.00020	<3.0	4.5	0.00020	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	2.11	<0.0010	<0.0010	7.86	<0.00020	<0.00020	<3.0	8.0	0.00042	0.0050	<0.0050	0.0049	0.059	0.023
	Geometric Mean	1.64	0.00050	0.00050	7.31	0.000100	0.000100	1.50	6.2	0.00025	0.00268	0.00250	0.00275	0.0320	0.0090
	Count <DL	0	10	10	0	10	10	10	0	0	9	10	4	2	8
	Standard Deviation	0.34	0.00000	0.00000	0.41	0.000000	0.000000	0.00	1.2	0.00006	0.00079	0.00000	0.00145	0.0169	0.0053
	1st Quartile	1.38	0.0005	0.0005	7	0.0001	0.0001	1.5	5.4	0.00023	0.0025	0.0025	0.0015	0.0315	0.0075
	Median	1.72	0.0005	0.0005	7.32	0.0001	0.0001	1.5	6.3	0.00024	0.0025	0.0025	0.0036	0.0375	0.0075
	3rd Quartile	1.95	0.0005	0.0005	7.66	0.0001	0.0001	1.5	7.4	0.00026	0.0025	0.0025	0.00423	0.051	0.0075
Iron River Site 8 IR8 E297232	Average	2.03	0.00050	0.00050	7.43	0.000100	0.000100	1.50	6.0	0.00024	0.00250	0.00250	0.00383	0.0417	0.0118
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	1.23	<0.0010	<0.0010	7.01	<0.00020	<0.00020	<3.0	3.2	0.00019	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	2.84	<0.0010	<0.0010	7.88	<0.00020	<0.00020	<3.0	8.0	0.00038	<0.0050	<0.0050	0.0066	0.101	0.024
	Geometric Mean	1.97	0.00050	0.00050	7.42	0.000100	0.000100	1.50	5.8	0.00023	0.00250	0.00250	0.00334	0.0339	0.0103
	Count <DL	0	10	10	0	10	10	10	0	0	10	10	3	2	7
	Standard Deviation	0.53	0.00000	0.00000	0.36	0.000000	0.000000	0.00	1.6	0.00006	0.00000	0.00000	0.00188	0.0262	0.0069
	1st Quartile	1.57	0.0005	0.0005	7.13	0.0001	0.0001	1.5	4.9	0.0002	0.0025	0.0025	0.00192	0.0288	0.0075
	Median	2.16	0.0005	0.0005	7.42	0.0001	0.0001	1.5	6.1	0.00022	0.0025	0.0025	0.0041	0.042	0.0075
	3rd Quartile	2.4	0.0005	0.0005	7.75	0.0001	0.0001	1.5	7.3	0.00024	0.0025	0.0025	0.00532	0.0515	0.0169

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Middle Quinsam Lake 1M MQL1 E206618	Average	0.00016	0.000149	0.0138	0.0114	41.9	0.0557	0.0000050	0.00046	0.035	0.0199	0.0073	0.00195	36.8
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00010	<0.00010	0.0073	0.0044	36	<0.050	<0.000010	0.00037	0.028	0.0147	0.0043	<0.0010	34.1
	Maximum	0.00021	0.00020	0.0197	0.0160	47	0.071	<0.000010	0.00057	0.053	0.0263	0.0125	0.0040	39.7
	Geometric Mean	0.00016	0.000141	0.0130	0.0103	41.8	0.0545	0.0000050	0.00046	0.034	0.0196	0.0069	0.00150	36.7
	Count <DL	0	1	0	0	0	1	15	0	0	0	0	4	0
	Standard Deviation	0.00003	0.000042	0.0047	0.0045	2.8	0.0103	0.0000000	0.00006	0.007	0.0037	0.0024	0.00129	1.4
	1st Quartile	0.00013	0.000115	0.0083	0.0064	40	0.0535	5.00E-06	0.00041	0.03	0.0174	0.0055	0.00075	35.8
	Median	0.00017	0.00016	0.0154	0.0134	42	0.054	<0.000010	0.00047	0.032	0.019	0.0072	0.0016	36.7
	3rd Quartile	0.00018	0.00018	0.0174	0.0147	44	0.062	5.00E-06	0.00049	0.038	0.0228	0.0081	0.00315	37.6
Middle Quinsam Lake 4M MQL4 E206618	Average	0.00016	0.000149	0.0139	0.0112	41.7	0.0544	0.0000054	0.00046	0.037	0.0207	0.0074	0.00176	36.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00011	<0.00010	0.0068	0.0045	36	<0.050	<0.000010	0.00040	0.028	0.0155	0.0042	<0.0010	33.5
	Maximum	0.00020	0.00020	0.0200	0.0164	47	0.069	0.000011	0.00053	0.076	0.0286	0.0113	0.0038	38.0
	Geometric Mean	0.00016	0.000142	0.0130	0.0102	41.6	0.0524	0.0000053	0.00046	0.036	0.0203	0.0071	0.00133	36.5
	Count <DL	0	1	0	0	0	2	14	0	0	0	0	5	0
	Standard Deviation	0.00003	0.000041	0.0046	0.0044	3.2	0.0128	0.0000015	0.00005	0.012	0.0045	0.0022	0.00124	1.3
	1st Quartile	0.00013	0.000125	0.0102	0.0066	39.5	0.054	5.00E-06	0.00041	0.03	0.0176	0.0055	0.0005	36.1
	Median	0.00017	0.00016	0.0154	0.0127	42	0.058	<0.000010	0.00047	0.032	0.0188	0.0076	0.0014	37.1
	3rd Quartile	0.00018	0.00018	0.0172	0.0147	44	0.062	5.00E-06	0.0005	0.04	0.0249	0.0082	0.0031	37.3
Middle Quinsam Lake 9M MQL9 E206618	Average	0.00015	0.000137	0.0121	0.0099	39.1	0.058	0.0000050	0.00045	0.029	0.0184	0.0074	0.00220	38.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00010	<0.00010	0.0066	0.0045	16	0.050	<0.000010	0.00038	0.020	0.0101	0.0053	<0.0010	35.3
	Maximum	0.00019	0.00018	0.0186	0.0154	46	0.071	<0.000010	0.00053	0.034	0.0552	0.0107	0.0064	43.2
	Geometric Mean	0.00015	0.000131	0.0114	0.0092	38.2	0.058	0.0000050	0.00045	0.028	0.0169	0.0072	0.00157	38.0
	Count <DL	0	1	0	0	0	0	15	0	0	0	0	4	0
	Standard Deviation	0.00003	0.000034	0.0045	0.0039	6.9	0.006	0.0000000	0.00005	0.004	0.0105	0.0015	0.00183	2.0
	1st Quartile	0.00013	0.000115	0.0087	0.0068	38.5	0.052	5.00E-06	0.00042	0.025	0.0148	0.0064	0.0008	37
	Median	0.00015	0.00015	0.0102	0.0098	40	0.056	<0.000010	0.00046	0.03	0.0158	0.0071	0.0015	37.7
	3rd Quartile	0.00017	0.00016	0.0176	0.0137	42.5	0.063	5.00E-06	0.00047	0.032	0.0181	0.0084	0.003	38.6
Middle Quinsam Lake 1MB MQLB E206618	Average	0.000128	0.000121	0.0112	0.00800	40.7	0.057	0.0000050	0.00045	0.042	0.0152	0.0424	0.03585	44.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0042	<0.0030	38	0.050	<0.000010	0.00039	0.019	0.0053	0.0068	<0.0010	37.4
	Maximum	0.00018	0.00017	0.0199	0.0145	44	0.066	<0.000010	0.00053	0.149	0.0226	0.292	0.293	100
	Geometric Mean	0.000120	0.000117	0.0102	0.00689	40.7	0.056	0.0000050	0.00045	0.036	0.0143	0.0173	0.00703	42.8
	Count <DL	2	1	0	1	0	0	15	0	0	0	0	1	0
	Standard Deviation	0.000040	0.000029	0.0049	0.00407	2.1	0.005	0.0000000	0.00004	0.032	0.0050	0.0753	0.07616	16.0
	1st Quartile	0.000115	0.00011	0.007	0.005	39	0.054	5.00E-06	0.00042	0.027	0.0114	0.0076	0.0022	38
	Median	0.00012	0.00011	0.0104	0.0063	40	0.055	<0.000010	0.00044	0.033	0.017	0.0087	0.0042	39.3
	3rd Quartile	0.000165	0.000145	0.015	0.0117	42.5	0.057	5.00E-06	0.00048	0.041	0.0183	0.0422	0.03125	41.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Middle Quinsam Lake 1M MQL1 E206618	Average	16.1	0.00050	0.00050	7.77	0.000100	0.000100	9.8	30.1	0.000050	0.00250	0.00250	0.00211	0.0122	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	14.3	<0.0010	<0.0010	7.30	<0.00020	<0.00020	8.7	26	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	19.2	<0.0010	<0.0010	8.3	<0.00020	<0.00020	11.1	35	<0.00010	<0.0050	<0.0050	0.0084	0.043	
	Geometric Mean	16.0	0.00050	0.00050	7.76	0.000100	0.000100	9.7	29.9	0.000050	0.00250	0.00250	0.00179	0.0110	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	12	14	
	Standard Deviation	1.2	0.00000	0.00000	0.31	0.000000	0.000000	0.8	3.2	0.000000	0.00000	0.00000	0.00187	0.0085	
	1st Quartile	15.4	0.0005	0.0005	7.59	0.0001	0.0001	9	27	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	15.7	<0.0010	<0.0010	7.69	<0.00020	<0.00020	9.9	30	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	16.5	0.0005	0.0005	7.96	0.0001	0.0001	10.2	32.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 4M MQL4 E206618	Average	16.1	0.00050	0.00050	7.72	0.000100	0.000100	9.9	30.2	0.000050	0.00250	0.00250	0.00150	0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	14.5	<0.0010	<0.0010	7.26	<0.00020	<0.00020	8.0	25	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	19.1	<0.0010	<0.0010	8.20	<0.00020	<0.00020	11.4	36	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Geometric Mean	16.0	0.00050	0.00050	7.72	0.000100	0.000100	9.8	30.0	0.000050	0.00250	0.00250	0.00150	0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	14	15	
	Standard Deviation	1.1	0.00000	0.00000	0.30	0.000000	0.000000	0.9	3.5	0.000000	0.00000	0.00000	0.00000	0.0000	
	1st Quartile	15.3	0.0005	0.0005	7.5	0.0001	0.0001	9.4	27.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	15.8	<0.0010	<0.0010	7.71	<0.00020	<0.00020	9.9	30	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	16.4	0.0005	0.0005	7.92	0.0001	0.0001	10.4	33	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 9M MQL9 E206618	Average	16.2	0.00050	0.00050	7.69	0.000100	0.000100	10.3	31.5	0.000050	0.00250	0.00250	0.00219	0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	14.8	<0.0010	<0.0010	7.16	<0.00020	<0.00020	8.5	26	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	18.2	<0.0010	<0.0010	8.29	<0.00020	<0.00020	11.5	37	<0.00010	<0.0050	<0.0050	0.0068	<0.020	
	Geometric Mean	16.2	0.00050	0.00050	7.68	0.000100	0.000100	10.3	31.3	0.000050	0.00250	0.00250	0.00190	0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	11	15	
	Standard Deviation	1.2	0.00000	0.00000	0.37	0.000000	0.000000	0.9	3.9	0.000000	0.00000	0.00000	0.00154	0.0000	
	1st Quartile	15.2	0.0005	0.0005	7.38	0.0001	0.0001	9.9	29	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	15.9	<0.0010	<0.0010	7.71	<0.00020	<0.00020	10.4	32	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	17.3	0.0005	0.0005	7.92	0.0001	0.0001	11	35	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 1MB MQLB E206618	Average	16.5	0.00050	0.00050	7.22	0.000100	0.000100	12.3	37.8	0.000050	0.00250	0.00250	0.00244	0.0158	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	15.2	<0.0010	<0.0010	6.5	<0.00020	<0.00020	9.2	27	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	20.0	<0.0010	<0.0010	7.71	<0.00020	<0.00020	33.4	100	<0.00010	<0.0050	<0.0050	0.0079	0.073	
	Geometric Mean	16.5	0.00050	0.00050	7.21	0.000100	0.000100	11.6	35.5	0.000050	0.00250	0.00250	0.00199	0.0124	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	11	13	
	Standard Deviation	1.2	0.00000	0.00000	0.40	0.000000	0.000000	6.0	17.9	0.000000	0.00000	0.00000	0.00205	0.0170	
	1st Quartile	15.8	0.0005	0.0005	7.05	0.0001	0.0001	9.8	29.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	16.2	<0.0010	<0.0010	7.24	<0.00020	<0.00020	10.6	34	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	16.7	0.0005	0.0005	7.51	0.0001	0.0001	11.8	36.5	5.00E-05	0.0025	0.0025	0.0015	0.01	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake 1M NNL1 E217018	Average	0.00024	0.00023	0.0410	0.0338	10.6	0.0250	0.0000050	0.00046	0.064	0.0369	0.0083	0.0072	12.3
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00023	0.00021	0.0365	0.0302	9.9	<0.050	<0.000010	0.00042	0.049	0.0296	0.0053	0.0046	11.6
	Maximum	0.00025	0.00025	0.0470	0.0370	11	<0.050	<0.000010	0.00053	0.083	0.0471	0.0127	0.0105	12.7
	Geometric Mean	0.00024	0.00023	0.0408	0.0337	10.6	0.0250	0.0000050	0.00046	0.063	0.0362	0.0079	0.0069	12.3
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00001	0.00002	0.0044	0.0029	0.6	0.0000	0.0000000	0.00005	0.014	0.0078	0.0030	0.0026	0.5
	1st Quartile	0.00024	0.00022	0.0379	0.0316	10	<0.050	<0.000010	0.00042	0.054	0.0309	0.0058	0.0049	11.9
	Median	0.00024	0.00023	0.0395	0.034	11	<0.050	<0.000010	0.00045	0.064	0.0335	0.0078	0.0071	12.5
	3rd Quartile	0.00024	0.00024	0.044	0.0363	11	<0.050	<0.000010	0.00047	0.072	0.0432	0.0098	0.009	12.6
No Name Lake 4M NNL4 E217018	Average	0.00024	0.00023	0.0424	0.0338	10.0	0.0250	0.0000050	0.00042	0.065	0.0378	0.0086	0.0073	12.4
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00021	0.00020	0.0361	0.0305	10	<0.050	<0.000010	0.00039	0.053	0.0293	0.0055	0.0044	12.2
	Maximum	0.00028	0.00025	0.0482	0.0378	10	<0.050	<0.000010	0.00044	0.082	0.0509	0.0124	0.0111	12.7
	Geometric Mean	0.00023	0.00023	0.0422	0.0337	10.0	0.0250	0.0000050	0.00042	0.064	0.0369	0.0082	0.0069	12.4
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00002	0.0050	0.0034	0.0	0.0000	0.0000000	0.00002	0.013	0.0095	0.0029	0.0028	0.2
	1st Quartile	0.00022	0.00023	0.0401	0.0305	10	<0.050	<0.000010	0.0004	0.053	0.0295	0.0062	0.0049	12.3
	Median	0.00023	0.00024	0.0408	0.0337	10	<0.050	<0.000010	0.00042	0.065	0.0353	0.0083	0.0073	12.3
	3rd Quartile	0.00024	0.00025	0.0468	0.0367	10	<0.050	<0.000010	0.00043	0.074	0.0441	0.0104	0.009	12.7
No Name Lake 9M NNL9 E217018	Average	0.00024	0.00024	0.0427	0.0349	10.0	0.0250	0.0000050	0.00042	0.072	0.0395	0.0093	0.0079	12.5
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00022	0.00021	0.0362	0.0322	9.9	<0.050	<0.000010	0.00039	0.064	0.0323	0.0073	0.0057	12.2
	Maximum	0.00026	0.00026	0.0483	0.0370	10	<0.050	<0.000010	0.00045	0.086	0.0507	0.0126	0.0109	12.8
	Geometric Mean	0.00024	0.00024	0.0425	0.0348	10.0	0.0250	0.0000050	0.00042	0.072	0.0388	0.0091	0.0077	12.5
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00002	0.0050	0.0020	0.04	0.0000	0.0000000	0.00002	0.009	0.0082	0.0022	0.0021	0.3
	1st Quartile	0.00023	0.00023	0.0403	0.0339	10	<0.050	<0.000010	0.00041	0.066	0.0343	0.0078	0.0066	12.4
	Median	0.00024	0.00023	0.0416	0.0345	10	<0.050	<0.000010	0.00042	0.071	0.0344	0.0083	0.0071	12.5
	3rd Quartile	0.00026	0.00026	0.0473	0.0368	10	<0.050	<0.000010	0.00043	0.075	0.0456	0.0105	0.0094	12.8
No Name Lake Bottom NNLB E217018	Average	0.00027	0.00025	0.0456	0.0356	10.4	0.0250	0.0000050	0.00041	0.080	0.0427	0.0088	0.0073	12.5
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00024	0.00023	0.0399	0.0326	10	<0.050	<0.000010	0.00038	0.073	0.0378	0.0079	0.0064	11.2
	Maximum	0.00033	0.00030	0.0561	0.0404	11	<0.050	<0.000010	0.00043	0.084	0.0514	0.0093	0.0081	13.2
	Geometric Mean	0.00027	0.00024	0.0453	0.0355	10.4	0.0250	0.0000050	0.00041	0.080	0.0424	0.0087	0.0072	12.5
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00003	0.0063	0.0032	0.5	0.0000	0.0000000	0.00002	0.005	0.0057	0.0007	0.0008	0.9
	1st Quartile	0.00025	0.00023	0.0423	0.0328	10	<0.050	<0.000010	0.00041	0.078	0.0389	0.0082	0.0065	11.9
	Median	0.00025	0.00023	0.0432	0.0354	10	<0.050	<0.000010	0.00042	0.083	0.0399	0.0091	0.0075	13
	3rd Quartile	0.00029	0.00024	0.0464	0.0369	11	<0.050	<0.000010	0.00042	0.083	0.0453	0.0093	0.0079	13.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake 1M NNL1 E217018	Average	1.020	0.00050	0.00050	6.32	0.000100	0.000100	1.50	2.9	0.000050	0.00250	0.00250	0.00150	0.0160	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.970	<0.0010	<0.0010	5.88	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.06	<0.0010	<0.0010	6.57	<0.00020	<0.00020	<3.0	3.7	<0.00010	<0.0050	<0.0050	<0.0030	0.028	
	Geometric Mean	1.019	0.00050	0.00050	6.31	0.000100	0.000100	1.50	2.9	0.000050	0.00250	0.00250	0.00150	0.0144	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	5	3	
	Standard Deviation	0.038	0.00000	0.00000	0.27	0.000000	0.000000	0.00	0.5	0.000000	0.00000	0.00000	0.00000	0.0085	
	1st Quartile	0.989	<0.0010	<0.0010	6.29	<0.00020	<0.00020	<3.0	2.8	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	1.04	<0.0010	<0.0010	6.39	<0.00020	<0.00020	<3.0	2.8	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	1.04	<0.0010	<0.0010	6.46	<0.00020	<0.00020	<3.0	3.1	<0.00010	<0.0050	<0.0050	<0.0030	0.022	
No Name Lake 4M NNL4 E217018	Average	1.027	0.00050	0.00050	6.18	0.000100	0.000100	1.50	3.2	0.000050	0.00250	0.00250	0.00150	0.0212	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.987	<0.0010	<0.0010	5.71	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.05	<0.0010	<0.0010	6.38	<0.00020	<0.00020	<3.0	4.5	<0.00010	<0.0050	<0.0050	<0.0030	0.044	
	Geometric Mean	1.027	0.00050	0.00050	6.17	0.000100	0.000100	1.50	3.1	0.000050	0.00250	0.00250	0.00150	0.0170	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	5	3	
	Standard Deviation	0.024	0.00000	0.00000	0.27	0.000000	0.000000	0.00	0.8	0.000000	0.00000	0.00000	0.00000	0.0159	
	1st Quartile	1.03	<0.0010	<0.0010	6.18	<0.00020	<0.00020	<3.0	2.8	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	1.03	<0.0010	<0.0010	6.28	<0.00020	<0.00020	<3.0	2.9	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	1.04	<0.0010	<0.0010	6.35	<0.00020	<0.00020	<3.0	3.2	<0.00010	<0.0050	<0.0050	<0.0030	0.032	
No Name Lake 9M NNL9 E217018	Average	1.03	0.00050	0.00050	6.12	0.000100	0.000100	1.50	3.3	0.000050	0.00250	0.00342	0.00150	0.0190	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	1.00	<0.0010	<0.0010	5.78	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.06	<0.0010	<0.0010	6.32	<0.00020	<0.00020	<3.0	3.8	<0.00010	<0.0050	0.0071	<0.0030	0.033	
	Geometric Mean	1.03	0.00050	0.00050	6.12	0.000100	0.000100	1.50	3.2	0.000050	0.00250	0.00308	0.00150	0.0160	
	Count <DL	0	5	5	0	5	5	5	0	5	5	4	5	3	
	Standard Deviation	0.03	0.00000	0.00000	0.22	0.000000	0.000000	0.00	0.5	0.000000	0.00000	0.00206	0.00000	0.0123	
	1st Quartile	1	<0.0010	<0.0010	6.08	<0.00020	<0.00020	<3.0	2.8	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	1.04	<0.0010	<0.0010	6.14	<0.00020	<0.00020	<3.0	3.3	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	1.06	<0.0010	<0.0010	6.3	<0.00020	<0.00020	<3.0	3.7	<0.00010	<0.0050	<0.0050	<0.0030	0.032	
No Name Lake Bottom NNLB E217018	Average	1.024	0.00050	0.00050	6.18	0.000100	0.000100	1.50	3.2	0.000050	0.00250	0.00250	0.00150	0.0198	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.958	<0.0010	<0.0010	5.83	<0.00020	<0.00020	<3.0	2.1	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.05	<0.0010	<0.0010	6.34	<0.00020	<0.00020	<3.0	4.4	<0.00010	<0.0050	<0.0050	<0.0030	0.026	
	Geometric Mean	1.023	0.00050	0.00050	6.17	0.000100	0.000100	1.50	3.1	0.000050	0.00250	0.00250	0.00150	0.0189	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	5	1	
	Standard Deviation	0.039	0.00000	0.00000	0.20	0.000000	0.000000	0.00	0.9	0.000000	0.00000	0.00000	0.00000	0.0059	
	1st Quartile	1.02	<0.0010	<0.0010	6.16	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	<0.0030	0.02	
	Median	1.04	<0.0010	<0.0010	6.26	<0.00020	<0.00020	<3.0	3.2	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
	3rd Quartile	1.05	<0.0010	<0.0010	6.29	<0.00020	<0.00020	<3.0	3.6	<0.00010	<0.0050	<0.0050	<0.0030	0.022	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Long Lake Middle 1 M LLM1 E206619	Average	0.00054	0.00052	0.0187	0.0149	26.1	0.0393	0.0000050	0.00036	0.058	0.0424	0.0118	0.0086	57.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00028	0.00026	0.0059	0.0048	16	<0.050	<0.000010	0.00030	0.027	0.0171	0.0045	0.0025	33.4
	Maximum	0.00079	0.00078	0.0378	0.0301	38	0.070	<0.000010	0.00046	0.092	0.0772	0.0254	0.0229	93.6
	Geometric Mean	0.00051	0.00048	0.0150	0.0118	25.1	0.0356	0.0000050	0.00036	0.052	0.0364	0.0108	0.0072	54.3
	Count <DL	0	0	0	0	0	9	15	0	0	0	0	0	0
	Standard Deviation	0.00019	0.00019	0.0126	0.0100	7.5	0.0186	0.0000000	0.00004	0.025	0.0234	0.0052	0.0054	20.7
	1st Quartile	0.00032	0.00028	0.0073	0.0052	20.5	0.025	5.00E-06	0.00032	0.029	0.0201	0.0078	0.0052	43.6
	Median	0.00061	0.00058	0.0141	0.0122	25	<0.050	<0.000010	0.00036	0.061	0.0371	0.0126	0.006	51.6
	3rd Quartile	0.00069	0.00066	0.0331	0.026	32	0.057	5.00E-06	0.00038	0.079	0.0667	0.0146	0.0124	74.4
Long Lake Middle 4 M LLM4 E206619	Average	0.00051	0.00048	0.0190	0.0145	28.9	0.0432	0.0000063	0.00036	0.053	0.0361	0.0135	0.0098	67.8
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00027	0.00026	0.0065	0.0048	23	<0.050	<0.000010	0.00030	0.027	0.0149	0.0048	0.0025	48.3
	Maximum	0.00079	0.00073	0.0391	0.0287	38	0.068	0.000024	0.00048	0.074	0.0587	0.0270	0.0239	92.0
	Geometric Mean	0.00048	0.00045	0.0150	0.0116	28.5	0.0394	0.0000056	0.00036	0.050	0.0330	0.0125	0.0082	66.5
	Count <DL	0	0	0	0	0	7	14	0	0	0	0	0	0
	Standard Deviation	0.00017	0.00016	0.0132	0.0097	5.0	0.0184	0.0000049	0.00005	0.018	0.0147	0.0054	0.0058	14.2
	1st Quartile	0.00032	0.00028	0.0074	0.006	25.5	0.025	5.00E-06	0.00031	0.032	0.0206	0.0103	0.0055	58.4
	Median	0.00053	0.00053	0.0133	0.0111	27	0.05	<0.000010	0.00036	0.059	0.0375	0.013	0.0094	62.2
	3rd Quartile	0.00065	0.00059	0.0328	0.0264	32.5	0.0595	5.00E-06	0.00038	0.068	0.0482	0.0164	0.0132	78.8
Long Lake Middle 9 M LLM9 E206619	Average	0.00032	0.00030	0.0182	0.0135	42.5	0.094	0.0000050	0.00047	0.040	0.0215	0.0476	0.0395	113.8
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00021	0.00019	0.0070	0.0050	34	0.067	<0.000010	0.00029	0.021	0.0119	0.0128	0.0061	86.7
	Maximum	0.00055	0.00053	0.0349	0.0236	48	0.110	<0.000010	0.00197	0.074	0.0373	0.0914	0.0783	129
	Geometric Mean	0.00031	0.00028	0.0160	0.0120	42.3	0.092	0.0000050	0.00041	0.035	0.0200	0.0404	0.0307	112.8
	Count <DL	0	0	0	0	0	0	15	0	0	0	0	0	0
	Standard Deviation	0.00012	0.00013	0.0093	0.0063	4.1	0.017	0.0000000	0.00042	0.023	0.0088	0.0262	0.0241	14.9
	1st Quartile	0.00024	0.00022	0.011	0.0082	40	0.08	5.00E-06	0.00035	0.023	0.015	0.0313	0.0241	103.5
	Median	0.00029	0.00023	0.0157	0.0129	44	0.103	<0.000010	0.00038	0.029	0.0172	0.0423	0.0352	121
	3rd Quartile	0.00033	0.00035	0.0274	0.0198	45	0.108	5.00E-06	0.0004	0.066	0.0296	0.0638	0.0578	125.5
Long Lake Middle 1M From B LLMB E206619	Average	0.00038	0.00032	0.0178	0.0126	44.0	0.0937	0.0000050	0.00037	0.076	0.0295	0.2676	0.2096	115.2
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00026	0.00021	0.0083	0.0060	26	<0.050	<0.000010	0.00031	0.043	0.0178	0.0098	0.0054	55.7
	Maximum	0.00080	0.00077	0.0310	0.0225	51	0.114	<0.000010	0.00046	0.107	0.0633	0.674	0.550	132
	Geometric Mean	0.00037	0.00030	0.0159	0.0115	43.5	0.0895	0.0000050	0.00037	0.074	0.0277	0.1763	0.1375	113.2
	Count <DL	0	0	0	0	0	1	15	0	0	0	0	0	0
	Standard Deviation	0.00014	0.00014	0.0087	0.0059	6.2	0.0216	0.0000000	0.00004	0.018	0.0123	0.2073	0.1629	18.5
	1st Quartile	0.0003	0.00025	0.0104	0.008	42	0.0915	5.00E-06	0.00035	0.064	0.0207	0.0945	0.0806	113
	Median	0.00035	0.00028	0.0151	0.01	46	0.096	<0.000010	0.00037	0.073	0.0278	0.207	0.155	121
	3rd Quartile	0.0004	0.00031	0.0272	0.0189	47	0.107	5.00E-06	0.0004	0.081	0.0315	0.4315	0.362	125

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Long Lake Middle 1 M LLM1 E206619	Average	5.59	0.00050	0.00050	7.35	0.000100	0.000100	13.9	41.7	0.000050	0.00313	0.00250	0.00295	0.0107	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	3.20	<0.0010	<0.0010	6.87	<0.00020	<0.00020	6.7	23	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	9.24	<0.0010	<0.0010	7.73	<0.00020	<0.00020	25.0	69	<0.00010	0.0120	<0.0050	0.016	0.021	
	Geometric Mean	5.20	0.00050	0.00050	7.34	0.000100	0.000100	12.7	38.8	0.000050	0.00278	0.00250	0.00212	0.0105	
	Count <DL	0	15	15	0	15	15	0	0	15	14	15	10	14	
	Standard Deviation	2.26	0.00000	0.00000	0.31	0.000000	0.000000	6.3	16.5	0.000000	0.00245	0.00000	0.00385	0.0028	
	1st Quartile	4.13	0.0005	0.0005	7.07	0.0001	0.0001	10.1	29	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	4.25	<0.0010	<0.0010	7.33	<0.00020	<0.00020	10.7	36	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	7.8	0.0005	0.0005	7.64	0.0001	0.0001	19.1	56	5.00E-05	0.0025	0.0025	0.00262	0.01	
Long Lake Middle 4 M LLM4 E206619	Average	6.63	0.00050	0.00050	7.24	0.000100	0.000100	17.0	51.0	0.000050	0.00250	0.00250	0.00216	0.0118	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	4.99	<0.0010	<0.0010	6.82	<0.00020	<0.00020	12.7	38	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	9.43	<0.0010	<0.0010	7.69	<0.00020	<0.00020	25.4	69	<0.00010	<0.0050	<0.0050	0.0043	0.025	
	Geometric Mean	6.48	0.00050	0.00050	7.24	0.000100	0.000100	16.5	50.2	0.000050	0.00250	0.00250	0.00195	0.0112	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	10	13	
	Standard Deviation	1.51	0.00000	0.00000	0.25	0.000000	0.000000	4.3	9.7	0.000000	0.00000	0.00000	0.00113	0.0048	
	1st Quartile	5.49	0.0005	0.0005	7.06	0.0001	0.0001	13.5	44.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	6.12	<0.0010	<0.0010	7.26	<0.00020	<0.00020	16	49	<0.00010	<0.0050	<0.0050	0.0015	<0.020	
	3rd Quartile	7.7	0.0005	0.0005	7.38	0.0001	0.0001	19	57	5.00E-05	0.0025	0.0025	0.0027	0.01	
Long Lake Middle 9 M LLM9 E206619	Average	13.64	0.00050	0.00050	6.96	0.000100	0.000100	32.7	98.4	0.000050	0.00250	0.00250	0.00206	0.0348	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	9.29	<0.0010	<0.0010	6.71	<0.00020	<0.00020	24.0	70	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.0	<0.0010	<0.0010	7.3	<0.00020	<0.00020	39.3	130	<0.00010	<0.0050	<0.0050	0.0037	0.056	
	Geometric Mean	13.40	0.00050	0.00050	6.96	0.000100	0.000100	32.3	96.4	0.000050	0.00250	0.00250	0.00191	0.0292	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	10	4	
	Standard Deviation	2.51	0.00000	0.00000	0.15	0.000000	0.000000	5.0	20.2	0.000000	0.00000	0.00000	0.00094	0.0168	
	1st Quartile	11.3	0.0005	0.0005	6.86	0.0001	0.0001	27.6	78.5	5.00E-05	0.0025	0.0025	0.0015	0.021	
	Median	15.2	<0.0010	<0.0010	6.99	<0.00020	<0.00020	35.3	100	<0.00010	<0.0050	<0.0050	0.0015	0.043	
	3rd Quartile	15.5	0.0005	0.0005	7.04	0.0001	0.0001	36	110	5.00E-05	0.0025	0.0025	0.0027	0.0465	
Long Lake Middle 1M From B LLMB E206619	Average	14.01	0.00050	0.00050	6.86	0.000100	0.000100	33.4	100.9	0.000050	0.00250	0.00250	0.06475	0.0547	
	Count	15	15	15	15	15	15	15	15	15	15	15	14	15	
	Minimum	4.88	<0.0010	<0.0010	6.51	<0.00020	<0.00020	12.1	36	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.6	<0.0010	<0.0010	6.97	<0.00020	<0.00020	40.4	120	<0.00010	<0.0050	<0.0050	0.80	0.090	
	Geometric Mean	13.54	0.00050	0.00050	6.86	0.000100	0.000100	32.3	97.5	0.000050	0.00250	0.00250	0.00497	0.0491	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	11	1	
	Standard Deviation	3.02	0.00000	0.00000	0.12	0.000000	0.000000	7.0	22.2	0.000000	0.00000	0.00000	0.21209	0.0221	
	1st Quartile	13.4	0.0005	0.0005	6.85	0.0001	0.0001	31.9	95	5.00E-05	0.0025	0.0025	0.0015	0.0405	
	Median	15.1	<0.0010	<0.0010	6.9	<0.00020	<0.00020	35.4	100	<0.00010	<0.0050	<0.0050	0.0015	0.051	
	3rd Quartile	15.9	0.0005	0.0005	6.93	0.0001	0.0001	37.3	120	5.00E-05	0.0025	0.0025	0.01312	0.071	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	0.00064	0.00062	0.0358	0.0298	30.0	0.0250	0.0000050	0.00053	0.079	0.0510	0.0046	0.0032	29.7
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00060	0.00057	0.0323	0.0285	28	<0.050	<0.000010	0.00051	0.076	0.0451	0.0041	0.0027	27.9
	Maximum	0.00068	0.00067	0.0385	0.0308	31	<0.050	<0.000010	0.00056	0.082	0.0566	0.0050	0.0035	30.7
	Geometric Mean	0.00064	0.00062	0.0357	0.0298	30.0	0.0250	0.0000050	0.00053	0.079	0.0509	0.0046	0.0031	29.7
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00004	0.0026	0.0010	1.2	0.0000	0.0000000	0.00002	0.002	0.0041	0.0003	0.0003	1.1
	1st Quartile	0.00063	0.0006	0.0341	0.0294	30	<0.050	<0.000010	0.00052	0.078	0.0505	0.0044	0.0029	30
	Median	0.00064	0.00063	0.0358	0.0297	30	<0.050	<0.000010	0.00052	0.079	0.051	0.0046	0.0033	30
	3rd Quartile	0.00065	0.00063	0.0381	0.0308	31	<0.050	<0.000010	0.00054	0.08	0.0518	0.0047	0.0034	30.1
Lower Quinsam Lake 4M LQL4 E292118	Average	0.00066	0.00062	0.0383	0.0302	29.4	0.0250	0.0000050	0.00052	0.083	0.0515	0.0047	0.0032	30.0
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00062	0.00060	0.0356	0.0282	28	<0.050	<0.000010	0.00051	0.074	0.0468	0.0043	0.0030	28.8
	Maximum	0.00069	0.00065	0.0414	0.0318	30	<0.050	<0.000010	0.00053	0.090	0.0579	0.0049	0.0035	30.9
	Geometric Mean	0.00066	0.00062	0.0382	0.0302	29.4	0.0250	0.0000050	0.00052	0.082	0.0513	0.0047	0.0032	30.0
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0024	0.0013	0.9	0.0000	0.0000000	0.00001	0.007	0.0043	0.0002	0.0002	0.8
	1st Quartile	0.00064	0.0006	0.0362	0.0299	29	<0.050	<0.000010	0.00052	0.078	0.0486	0.0047	0.003	29.6
	Median	0.00067	0.0006	0.0384	0.0305	30	<0.050	<0.000010	0.00052	0.084	0.0515	0.0048	0.0033	29.9
	3rd Quartile	0.00067	0.00065	0.0398	0.0306	30	<0.050	<0.000010	0.00052	0.087	0.0526	0.0049	0.0034	30.6
Lower Quinsam Lake 9M LQL9 E292118	Average	0.00065	0.00062	0.0391	0.0314	29.6	0.0250	0.0000074	0.00054	0.084	0.0518	0.0049	0.0034	30.0
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00062	0.00059	0.0373	0.0279	29	<0.050	<0.000010	0.00052	0.079	0.0476	0.0047	0.0030	29.3
	Maximum	0.00069	0.00063	0.0415	0.0338	31	<0.050	0.000017	0.00055	0.087	0.0572	0.0051	0.0038	30.9
	Geometric Mean	0.00065	0.00062	0.0390	0.0314	29.6	0.0250	0.0000064	0.00054	0.084	0.0517	0.0049	0.0034	30.0
	Count <DL	0	0	0	0	0	5	4	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00002	0.0020	0.0022	0.9	0.0000	0.0000054	0.00001	0.004	0.0037	0.0002	0.0003	0.6
	1st Quartile	0.00063	0.00062	0.0375	0.0314	29	<0.050	<0.000010	0.00053	0.081	0.0493	0.0047	0.0033	29.7
	Median	0.00064	0.00062	0.0381	0.0317	29	<0.050	<0.000010	0.00054	0.086	0.052	0.0049	0.0033	29.8
	3rd Quartile	0.00068	0.00062	0.0409	0.0324	30	<0.050	<0.000010	0.00054	0.087	0.0527	0.0051	0.0036	30.5
Lower Quinsam Lake 1MB LQLB E292118	Average	0.00069	0.00063	0.0407	0.0295	30.8	0.0250	0.0000050	0.00054	0.096	0.0575	0.0060	0.0043	30.5
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00065	0.00059	0.0370	0.0265	29	<0.050	<0.000010	0.00049	0.085	0.0527	0.0051	0.0033	29.9
	Maximum	0.00072	0.00067	0.0469	0.0347	36	<0.050	<0.000010	0.00063	0.124	0.0679	0.0093	0.0068	30.9
	Geometric Mean	0.00069	0.00063	0.0405	0.0293	30.7	0.0250	0.0000050	0.00054	0.095	0.0573	0.0059	0.0041	30.5
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0038	0.0032	2.9	0.0000	0.0000000	0.00005	0.016	0.0062	0.0018	0.0014	0.4
	1st Quartile	0.00067	0.00062	0.0384	0.0276	29	<0.050	<0.000010	0.00051	0.088	0.0538	0.0052	0.0034	30.4
	Median	0.00069	0.00062	0.0398	0.0285	30	<0.050	<0.000010	0.00053	0.088	0.055	0.0053	0.0039	30.5
	3rd Quartile	0.00071	0.00065	0.0412	0.0301	30	<0.050	<0.000010	0.00053	0.095	0.0583	0.0053	0.0041	30.9

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	7.77	0.00050	0.00050	7.39	0.000100	0.000100	5.6	18.0	0.000050	0.00250	0.00250	0.00150	0.0246	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.68	<0.0010	<0.0010	7.21	<0.00020	<0.00020	5.2	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.06	<0.0010	<0.0010	7.58	<0.00020	<0.00020	6.1	20	<0.00010	<0.0050	<0.0050	<0.0030	0.044	
	Geometric Mean	7.77	0.00050	0.00050	7.39	0.000100	0.000100	5.6	18.0	0.000050	0.00250	0.00250	0.00150	0.0204	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	5	2	
	Standard Deviation	0.16	0.00000	0.00000	0.14	0.000000	0.000000	0.4	1.2	0.000000	0.00000	0.00000	0.00000	0.0158	
	1st Quartile	7.69	<0.0010	<0.0010	7.29	<0.00020	<0.00020	5.5	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	7.71	<0.0010	<0.0010	7.4	<0.00020	<0.00020	5.5	18	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
	3rd Quartile	7.72	<0.0010	<0.0010	7.46	<0.00020	<0.00020	5.9	18	<0.00010	<0.0050	<0.0050	<0.0030	0.038	
Lower Quinsam Lake 4M LQL4 E292118	Average	7.58	0.00050	0.00050	7.27	0.000100	0.000100	5.8	17.6	0.000050	0.00250	0.00250	0.00150	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.34	<0.0010	<0.0010	7.06	<0.00020	<0.00020	5.0	16	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.93	<0.0010	<0.0010	7.46	<0.00020	<0.00020	6.5	20	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Geometric Mean	7.58	0.00050	0.00050	7.27	0.000100	0.000100	5.7	17.5	0.000050	0.00250	0.00250	0.00150	0.0100	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	5	5	
	Standard Deviation	0.22	0.00000	0.00000	0.16	0.000000	0.000000	0.6	1.5	0.000000	0.00000	0.00000	0.00000	0.0000	
	1st Quartile	7.5	<0.0010	<0.0010	7.18	<0.00020	<0.00020	5.4	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	7.54	<0.0010	<0.0010	7.26	<0.00020	<0.00020	5.8	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	7.61	<0.0010	<0.0010	7.38	<0.00020	<0.00020	6.1	18	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
Lower Quinsam Lake 9M LQL9 E292118	Average	7.58	0.00050	0.00050	7.23	0.000100	0.000100	5.6	17.6	0.000050	0.00250	0.00302	0.00150	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.24	<0.0010	<0.0010	7.12	<0.00020	<0.00020	4.8	16	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.90	<0.0010	<0.0010	7.39	<0.00020	<0.00020	6.8	20	<0.00010	<0.0050	0.0051	<0.0030	<0.020	
	Geometric Mean	7.57	0.00050	0.00050	7.23	0.000100	0.000100	5.6	17.5	0.000050	0.00250	0.00288	0.00150	0.0100	
	Count <DL	0	5	5	0	5	5	0	0	5	5	4	5	5	
	Standard Deviation	0.29	0.00000	0.00000	0.13	0.000000	0.000000	0.7	1.5	0.000000	0.00000	0.00116	0.00000	0.0000	
	1st Quartile	7.32	<0.0010	<0.0010	7.13	<0.00020	<0.00020	5.3	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	7.64	<0.0010	<0.0010	7.14	<0.00020	<0.00020	5.4	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	7.78	<0.0010	<0.0010	7.35	<0.00020	<0.00020	5.7	18	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
Lower Quinsam Lake 1MB LQLB E292118	Average	7.62	0.00050	0.00050	7.18	0.000100	0.000100	5.6	18.0	0.000050	0.00250	0.00326	0.00150	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.15	<0.0010	<0.0010	7.01	<0.00020	<0.00020	5.2	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.89	<0.0010	<0.0010	7.36	<0.00020	<0.00020	6.2	20	<0.00010	<0.0050	0.0063	<0.0030	<0.020	
	Geometric Mean	7.62	0.00050	0.00050	7.18	0.000100	0.000100	5.6	18.0	0.000050	0.00250	0.00301	0.00150	0.0100	
	Count <DL	0	5	5	0	5	5	0	0	5	5	4	5	5	
	Standard Deviation	0.29	0.00000	0.00000	0.17	0.000000	0.000000	0.4	1.2	0.000000	0.00000	0.00170	0.00000	0.0000	
	1st Quartile	7.54	<0.0010	<0.0010	7.02	<0.00020	<0.00020	5.3	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	7.72	<0.0010	<0.0010	7.15	<0.00020	<0.00020	5.6	18	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	7.81	<0.0010	<0.0010	7.35	<0.00020	<0.00020	5.9	18	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Settling Pond #4 WD E207409	Average	0.00154	0.00111	0.0154	0.00354	432	0.792	0.0000054	0.000279	0.456	0.0236	0.1038	0.1092	345
	Count	6	12	6	12	12	6	12	12	6	12	6	12	6
	Minimum	0.00111	0.00082	0.0042	<0.0030	360	0.659	<0.000010	<0.00020	0.129	0.0119	0.0583	0.0451	241
	Maximum	0.00233	0.00186	0.0489	0.0214	490	0.907	<0.000020	0.00054	0.947	0.0408	0.188	0.167	409
	Geometric Mean	0.00149	0.00107	0.0104	0.00218	431	0.787	0.0000053	0.000248	0.369	0.0219	0.0957	0.1023	340
	Count <DL	0	0	0	10	0	0	12	2	0	0	0	0	0
	Standard Deviation	0.00044	0.00032	0.0171	0.00570	35	0.100	0.0000014	0.000135	0.317	0.0095	0.0481	0.0394	61
	1st Quartile	0.00132	0.0009	0.0059	0.0015	410	0.736	5.00E-06	0.000215	0.266	0.0151	0.0716	0.0879	320
	Median	0.00137	0.001	0.0081	0.0015	435	0.774	5.00E-06	0.000235	0.332	0.0247	0.0899	0.1036	357
	3rd Quartile	0.00166	0.0012	0.0155	0.00188	452	0.879	5.00E-06	0.000345	0.648	0.0278	0.1208	0.1348	389
North Pit Culvert WC E207411	Average	0.00044	0.00038	0.00523	0.00437	370.0	0.740	0.0000050	0.000227	0.074	0.0126	0.0097	0.0091	279.2
	Count	6	6	6	6	1	6	6	6	6	6	6	6	6
	Minimum	0.00036	0.00030	<0.0030	<0.0030	370	0.603	<0.000010	<0.00020	0.032	0.0112	0.0035	0.0034	223
	Maximum	0.00050	0.00042	0.0176	0.0146	370	0.856	<0.000010	0.00041	0.210	0.0142	0.0172	0.0155	318
	Geometric Mean	0.00044	0.00038	0.00330	0.00292	370.0	0.735	0.0000050	0.000199	0.058	0.0126	0.0086	0.0081	277.1
	Count <DL	0	0	3	3	0	0	6	2	0	0	0	0	0
	Standard Deviation	0.00005	0.00005	0.00625	0.00511	0.0	0.099	0.0000000	0.000119	0.068	0.0012	0.0049	0.0044	36.6
	1st Quartile	0.00042	0.00036	0.0015	0.0015	370	0.692	5.00E-06	0.000128	0.042	0.0116	0.0066	0.0062	260
	Median	0.00044	0.0004	0.00295	0.0025	370	0.722	5.00E-06	0.00023	0.048	0.0126	0.0092	0.0086	282
	3rd Quartile	0.00048	0.00041	0.00478	0.00358	370	0.824	5.00E-06	0.00028	0.059	0.0136	0.0123	0.0117	308.5
Settling Pond #1 SPD E218582	Average	0.00172	0.00150	0.01317	0.00791	105.9	0.264	0.0000050	0.000228	0.156	0.0730	0.0678	0.0446	440
	Count	6	12	6	12	12	6	12	12	6	12	6	12	6
	Minimum	0.00058	0.00052	<0.0030	<0.0030	66	0.143	<0.000010	<0.00020	0.063	0.0201	0.0084	0.0045	333
	Maximum	0.00347	0.00353	0.0404	0.0314	140	0.424	<0.000010	0.00046	0.231	0.174	0.244	0.237	542
	Geometric Mean	0.00151	0.00126	0.00788	0.00403	103.8	0.248	0.0000050	0.000195	0.144	0.0561	0.0388	0.0225	433
	Count <DL	0	0	1	6	0	0	12	5	0	0	0	0	0
	Standard Deviation	0.00096	0.00101	0.01438	0.01001	21.5	0.099	0.0000000	0.000126	0.062	0.0528	0.0879	0.0643	79
	1st Quartile	0.00137	0.00084	0.00445	0.0015	93	0.202	5.00E-06	0.0001	0.126	0.029	0.0238	0.0083	391
	Median	0.00165	0.00124	0.0086	0.00245	105	0.256	5.00E-06	0.000255	0.154	0.0551	0.0409	0.0258	433
	3rd Quartile	0.0017	0.00156	0.01478	0.00945	122.5	0.303	5.00E-06	0.0003	0.203	0.1202	0.0511	0.0521	498
Culvert into Long Lake LLE E292130	Average	0.00104	0.00088	0.0368	0.01966	84	0.198	0.0000050	0.000319	1.104	0.8897	0.1315	0.1274	304
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00045	0.00032	0.0041	<0.0030	33	0.056	<0.000010	<0.00020	0.115	0.0740	0.0089	0.0084	106
	Maximum	0.00314	0.00281	0.0859	0.0417	200	0.573	<0.000010	0.00055	6.47	5.41	0.466	0.430	668
	Geometric Mean	0.00085	0.00071	0.0233	0.01128	69	0.148	0.0000050	0.000262	0.465	0.3417	0.0516	0.0499	249
	Count <DL	0	0	0	2	0	0	12	4	0	0	0	0	0
	Standard Deviation	0.00080	0.00072	0.0303	0.01562	59	0.174	0.0000000	0.000172	1.833	1.5412	0.1776	0.1710	203
	1st Quartile	0.0006	0.0005	0.008	0.00385	45	0.093	5.00E-06	0.0001	0.189	0.145	0.0181	0.0162	154
	Median	0.00065	0.00056	0.035	0.0217	54	0.11	5.00E-06	0.000375	0.312	0.205	0.0385	0.0371	191
	3rd Quartile	0.0013	0.00101	0.059	0.03255	104	0.221	5.00E-06	0.00043	1.08	0.7508	0.177	0.1755	428

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Settling Pond #4 WD E207409	Average	262.0	0.00198	0.00076	7.69	0.000100	0.000108	159.7	475	0.000054	0.00250	0.00271	0.00150	0.0100	0.0150
	Count	12	6	12	52	6	12	12	52	12	6	12	3	3	3
	Minimum	236	<0.0010	<0.0010	7.33	<0.00020	<0.00020	104	300	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	280	0.0076	0.0024	8.33	<0.00020	<0.00040	192	710	<0.00020	<0.0050	<0.010	<0.0030	<0.020	0.030
	Geometric Mean	261.6	0.00101	0.00065	7.69	0.000100	0.000106	158.0	468	0.000053	0.00250	0.00265	0.00150	0.0100	0.0119
	Count <DL	0	4	10	0	6	12	0	0	12	6	12	3	3	2
	Standard Deviation	15.4	0.00284	0.00057	0.18	0.000000	0.000029	22.6	87	0.000014	0.00000	0.00072	0.00000	0.0000	0.0130
	1st Quartile	251.5	0.0005	0.0005	7.6	0.0001	0.0001	148.5	410	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0075
	Median	268.5	0.0005	0.0005	7.67	0.0001	0.0001	163.5	470	5.00E-05	0.0025	0.0025	<0.0030	<0.020	<0.015
	3rd Quartile	274.5	0.00185	0.00062	7.79	0.0001	0.0001	171.8	520	5.00E-05	0.0025	0.0025	0.0015	0.01	0.0188
	Average	244.3	0.00060	0.00050	8.19	0.000100	0.000100	142.7	420	0.000050	0.00250	0.00250			
	Count	6	6	6	12	6	6	6	12	6	6	6			
	Minimum	206	<0.0010	<0.0010	7.94	<0.00020	<0.00020	113	310	<0.00010	<0.0050	<0.0050			
North Pit Culvert WC E207411	Maximum	269	0.0011	<0.0010	8.45	<0.00020	<0.00020	167	530	<0.00010	<0.0050	<0.0050			
	Geometric Mean	243.1	0.00057	0.00050	8.18	0.000100	0.000100	141.5	414	0.000050	0.00250	0.00250			
	Count <DL	0	5	6	0	6	6	0	0	6	6	6			
	Standard Deviation	26.0	0.00024	0.00000	0.16	0.000000	0.000000	19.8	77	0.000000	0.00000	0.00000			
	1st Quartile	227.8	0.0005	0.0005	8.09	0.0001	0.0001	131.2	365	5.00E-05	0.0025	0.0025			
	Median	250	0.0005	0.0005	8.18	0.0001	0.0001	145.5	420	5.00E-05	0.0025	0.0025			
	3rd Quartile	265.5	0.0005	0.0005	8.3	0.0001	0.0001	155.2	477	5.00E-05	0.0025	0.0025			
	Average	38.3	0.00050	0.00050	7.59	0.000100	0.000100	134.4	359	0.000055	0.00250	0.00250	0.0060	0.0100	0.0205
	Count	12	6	12	52	6	12	12	52	12	6	12	3	3	3
	Minimum	12.7	<0.0010	<0.0010	6.06	<0.00020	<0.00020	54.2	58	<0.00010	<0.0050	<0.0050	0.0042	<0.020	<0.015
	Maximum	65.8	<0.0010	<0.0010	8.22	<0.00020	<0.00020	177	510	0.00011	<0.0050	<0.0050	0.0074	<0.020	0.035
	Geometric Mean	34.2	0.00050	0.00050	7.58	0.000100	0.000100	128.4	328	0.000053	0.00250	0.00250	0.0059	0.0100	0.0171
Settling Pond # 1 SPD E218582	Count <DL	0	6	12	0	6	12	0	0	11	6	12	0	3	1
	Standard Deviation	17.0	0.00000	0.00000	0.41	0.000000	0.000000	37.0	127	0.000017	0.00000	0.00000	0.0017	0.0000	0.0138
	1st Quartile	22.9	0.0005	0.0005	7.46	0.0001	0.0001	118.5	272	5.00E-05	0.0025	0.0025	0.0054	0.01	0.0132
	Median	40	0.0005	0.0005	7.64	0.0001	0.0001	139.5	420	5.00E-05	0.0025	0.0025	0.0065	<0.020	0.019
	3rd Quartile	49	0.0005	0.0005	7.86	0.0001	0.0001	162.2	462	5.00E-05	0.0025	0.0025	0.007	0.01	0.027
	Average	27.96	0.00062	0.00050	7.25	0.000100	0.000100	93.2	265	0.000050	0.00250	0.00428	0.00494	0.0869	0.0282
	Count	12	12	12	52	12	12	12	52	12	12	12	12	12	12
	Minimum	6.97	<0.0010	<0.0010	6.04	<0.00020	<0.00020	28.4	25	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	70.7	0.0019	<0.0010	7.83	<0.00020	<0.00020	219	660	<0.00010	<0.0050	0.0212	0.0094	0.575	0.12
	Geometric Mean	20.78	0.00056	0.00050	7.25	0.000100	0.000100	74.1	208	0.000050	0.00250	0.00317	0.00452	0.0342	0.0154
	Count <DL	0	11	12	0	12	12	0	0	12	12	10	1	6	8
	Standard Deviation	22.56	0.00040	0.00000	0.31	0.000000	0.000000	65.8	181	0.000000	0.00000	0.00538	0.00208	0.1594	0.0354
	1st Quartile	11.65	0.0005	0.0005	7.1	0.0001	0.0001	44.4	127	5.00E-05	0.0025	0.0025	0.00393	0.01	0.0075
Culvert into Long Lake LLE E292130	Median	17.3	0.0005	0.0005	7.29	0.0001	0.0001	57.8	170	5.00E-05	0.0025	0.0025	0.0046	0.034	0.0075
	3rd Quartile	36.83	0.0005	0.0005	7.44	0.0001	0.0001	131.5	392	5.00E-05	0.0025	0.0025	0.00568	0.0745	0.0475

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seep into Long Lake LLS E292131	Average	0.00239	0.00188	0.01431	0.00233	204.4	0.491	0.0000056	0.000213	1.393	1.034	0.276	0.277	595
	Count	9	9	9	9	9	9	9	9	9	9	9	9	9
	Minimum	0.00113	0.00096	<0.0030	<0.0030	160	0.388	<0.000010	<0.00020	0.441	0.319	0.146	0.141	490
	Maximum	0.00505	0.00397	0.0609	0.0075	220	0.64	<0.000020	0.00074	3.05	2.43	0.483	0.482	740
	Geometric Mean	0.00211	0.00170	0.00663	0.00194	203.4	0.485	0.0000054	0.000156	1.159	0.861	0.260	0.261	590
	Count <DL	0	0	3	8	0	0	9	7	0	0	0	0	0
	Standard Deviation	0.00132	0.00095	0.01961	0.00200	21.3	0.083	0.0000017	0.000219	0.886	0.674	0.100	0.104	80
	1st Quartile	0.00124	0.00117	<0.0060	<0.0030	200	0.443	<0.000010	<0.00020	0.68	0.596	0.196	0.199	569
	Median	0.00238	0.00181	0.0049	<0.0030	210	0.466	<0.000010	<0.00020	1.12	0.883	0.272	0.274	578
	3rd Quartile	0.00284	0.0023	0.019	<0.0030	220	0.506	<0.000010	<0.00040	2.04	1.29	0.315	0.32	618
Long Lake Middle Seep LLSM E292131	Average	0.00031	0.00026	0.0372	0.0103	143	0.308	0.0000050	0.00056	0.193	0.0879	0.0561	0.0531	421
	Count	9	9	9	9	9	9	9	9	9	9	9	9	9
	Minimum	0.00018	0.00014	0.0055	0.0034	47	0.147	<0.000010	0.00036	0.088	0.0408	0.0306	0.0136	229
	Maximum	0.00049	0.00046	0.182	0.0369	190	0.387	<0.000010	0.00103	0.503	0.195	0.113	0.112	510
	Geometric Mean	0.00029	0.00024	0.0158	0.0067	134	0.297	0.0000050	0.00052	0.165	0.0759	0.0506	0.0448	411
	Count <DL	0	0	0	0	0	0	9	0	0	0	0	0	0
	Standard Deviation	0.00011	0.00011	0.0603	0.0120	43	0.077	0.0000000	0.00024	0.130	0.0540	0.0284	0.0316	86
	1st Quartile	0.00025	0.00019	0.0071	0.0038	150	0.293	<0.000010	0.00038	0.096	0.049	0.0365	0.0314	420
	Median	0.00027	0.00022	0.0105	0.0044	150	0.341	<0.000010	0.00043	0.145	0.07	0.0415	0.0418	454
	3rd Quartile	0.00043	0.00027	0.0143	0.0064	170	0.343	<0.000010	0.00059	0.233	0.1	0.0642	0.0645	465
7S Surface Decant 7SSD E292069	Average	0.00260	0.00242	0.0252	0.00260	119.0	0.0250	0.0000050	0.00076	0.076	0.0266	0.1309	0.1350	123.0
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00039	0.00033	0.0073	<0.0030	95	<0.050	<0.000010	0.00047	0.045	0.0101	0.0335	0.0194	98.1
	Maximum	0.00819	0.00771	0.0436	0.0054	130	<0.050	<0.000010	0.00169	0.134	0.0488	0.294	0.363	140
	Geometric Mean	0.00157	0.00141	0.0218	0.00224	118.2	0.0250	0.0000050	0.00066	0.071	0.0221	0.0981	0.0824	122.2
	Count <DL	0	0	0	3	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00317	0.00301	0.0130	0.00171	14.3	0.0000	0.0000000	0.00052	0.035	0.0163	0.1071	0.1405	15.4
	1st Quartile	0.00111	0.00099	0.0215	<0.0030	120	<0.050	<0.000010	0.00049	0.056	0.0108	0.0589	0.0387	123
	Median	0.0014	0.00118	0.0254	<0.0030	120	<0.050	<0.000010	0.00053	0.066	0.031	0.0862	0.0808	125
	3rd Quartile	0.00192	0.00187	0.0281	0.0031	130	<0.050	<0.000010	0.00062	0.079	0.0321	0.182	0.173	129
Stream 1 7S 7S E292109	Average	0.000151	0.000064	0.0346	0.0279	14.3	0.0250	0.0000050	0.00031	0.0149	0.00419	0.00050	0.00050	15.8
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	<0.00010	<0.00010	0.0199	0.0169	9.5	<0.050	<0.000010	0.00026	<0.010	<0.0050	<0.0010	<0.0010	12.2
	Maximum	0.00047	0.00011	0.0530	0.0443	22	<0.050	<0.000010	0.00042	0.050	0.0103	<0.0010	<0.0010	20.4
	Geometric Mean	0.000111	0.000060	0.0330	0.0267	13.7	0.0250	0.0000050	0.00031	0.0103	0.00346	0.00050	0.00050	15.5
	Count <DL	3	6	0	0	0	8	8	0	4	6	8	8	0
	Standard Deviation	0.000142	0.000026	0.0116	0.0092	4.6	0.0000	0.0000000	0.00006	0.0154	0.00317	0.00000	0.00000	3.2
	1st Quartile	5.00E-05	5.00E-05	0.0281	0.0223	11.8	0.025	5.00E-06	0.00028	0.005	0.0025	0.0005	0.0005	13.7
	Median	0.00011	5.00E-05	0.0309	0.0258	12.5	0.025	5.00E-06	0.00029	0.0085	0.0025	0.0005	0.0005	14.5
	3rd Quartile	0.000168	6.20E-05	0.042	0.0306	15.8	0.025	5.00E-06	0.00035	0.0182	0.00392	0.0005	0.0005	18

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seep into Long Lake	Average	81.0	0.00232	0.0024	7.10	0.000133	0.000111	188.2	548	0.000056	0.00333	0.00278	0.00150	0.0100	0.035
LLS	Count	9	9	9	9	9	9	9	9	9	9	9	3	3	3
E292131	Minimum	64.5	<0.0020	0.0010	6.6	<0.00020	<0.00020	136	400	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	0.028
	Maximum	99.5	0.0050	0.0052	7.71	<0.00040	<0.00040	234	660	<0.00020	<0.010	<0.010	<0.0030	<0.020	0.046
	Geometric Mean	80.0	0.00205	0.0021	7.09	0.000126	0.000108	185.6	542	0.000054	0.00315	0.00270	0.00150	0.0100	0.034
	Count <DL	0	1	0	0	9	9	0	0	9	9	9	3	3	0
	Standard Deviation	13.3	0.00129	0.0013	0.35	0.000050	0.000033	33.1	89	0.000017	0.00125	0.00083	0.00000	0.0000	0.010
	1st Quartile	71.9	0.0013	0.0016	6.91	<0.00020	<0.00020	165	500	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.03
	Median	76.5	0.0019	0.0019	7.05	<0.00020	<0.00020	190	530	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	0.031
	3rd Quartile	92.5	0.0026	0.0028	7.32	<0.00040	<0.00020	215	630	<0.00010	<0.010	<0.0050	0.0015	0.01	0.038
Long Lake Middle Seep	Average	47.3	0.00128	0.00114	7.47	0.000100	0.000100	124.7	361	0.000059	0.00250	0.00250	0.00150	0.0233	0.0140
LLSM	Count	9	9	9	9	9	9	9	9	9	9	9	3	3	3
E292131	Minimum	18.7	<0.0010	<0.0010	6.98	<0.00020	<0.00020	67.5	220	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	62.2	0.0023	0.0023	7.94	<0.00020	<0.00020	163	450	0.00013	<0.0050	<0.0050	<0.0030	0.036	0.027
	Geometric Mean	45.0	0.00114	0.00100	7.47	0.000100	0.000100	121.4	353	0.000056	0.00250	0.00250	0.00150	0.0205	0.0115
	Count <DL	0	2	3	0	9	9	0	0	8	9	9	3	1	2
	Standard Deviation	13.2	0.00061	0.00061	0.27	0.000000	0.000000	27.9	70	0.000027	0.00000	0.00000	0.00000	0.0130	0.0113
	1st Quartile	49	0.001	<0.0010	7.33	<0.00020	<0.00020	116	340	<0.00010	<0.0050	<0.0050	0.0015	0.017	0.0075
	Median	50.7	0.0012	0.0011	7.54	<0.00020	<0.00020	126	390	<0.00010	<0.0050	<0.0050	<0.0030	0.024	<0.015
	3rd Quartile	54	0.0017	0.0014	7.58	<0.00020	<0.00020	141	400	<0.00010	<0.0050	<0.0050	0.0015	0.03	0.0173
7S Surface Decant	Average	5.20	0.00050	0.00050	7.47	0.000100	0.000100	5.2	17.8	0.000050	0.00250	0.00250	0.00150		
7SSD	Count	5	5	5	5	5	5	5	5	5	5	5	1		
E292069	Minimum	3.13	<0.0010	<0.0010	7.22	<0.00020	<0.00020	3.1	11	<0.00010	<0.0050	<0.0050	<0.0030		
	Maximum	7.15	<0.0010	<0.0010	7.66	<0.00020	<0.00020	9.1	32	<0.00010	<0.0050	<0.0050	<0.0030		
	Geometric Mean	4.94	0.00050	0.00050	7.47	0.000100	0.000100	4.7	15.9	0.000050	0.00250	0.00250	0.00150		
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	1		
	Standard Deviation	1.75	0.00000	0.00000	0.18	0.000000	0.000000	2.6	9.7	0.000000	0.00000	0.00000	0.00000		
	1st Quartile	3.59	<0.0010	<0.0010	7.38	<0.00020	<0.00020	3.2	11	<0.00010	<0.0050	<0.0050	<0.0030		
	Median	5.9	<0.0010	<0.0010	7.45	<0.00020	<0.00020	3.9	11	<0.00010	<0.0050	<0.0050	<0.0030		
	3rd Quartile	6.21	<0.0010	<0.0010	7.63	<0.00020	<0.00020	6.6	24	<0.00010	<0.0050	<0.0050	<0.0030		
Stream 1 7S	Average	1.54	0.00050	0.00050	7.14	0.000100	0.000100	1.50	4.1	0.000050	0.00250	0.00250			
7S	Count	8	8	8	8	8	8	8	8	8	8	8			
E292109	Minimum	1.24	<0.0010	<0.0010	6.3	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050			
	Maximum	2.01	<0.0010	<0.0010	7.84	<0.00020	<0.00020	<3.0	6.9	<0.00010	<0.0050	<0.0050			
	Geometric Mean	1.52	0.00050	0.00050	7.13	0.000100	0.000100	1.50	3.9	0.000050	0.00250	0.00250			
	Count <DL	0	8	8	0	8	8	8	0	8	8	8			
	Standard Deviation	0.28	0.00000	0.00000	0.47	0.000000	0.000000	0.00	1.4	0.000000	0.00000	0.00000			
	1st Quartile	1.38	0.0005	0.0005	6.93	0.0001	0.0001	1.5	3.5	5.00E-05	0.0025	0.0025			
	Median	1.44	0.0005	0.0005	7.18	0.0001	0.0001	1.5	3.9	5.00E-05	0.0025	0.0025			
	3rd Quartile	1.66	0.0005	0.0005	7.42	0.0001	0.0001	1.5	4.4	5.00E-05	0.0025	0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
2 North Portal Sump 2NPS E283433	Average	0.00078	0.00041	0.1311	0.00787	296	0.782	0.0000088	0.000342	0.392	0.04925	0.1589	0.1593	741
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00033	0.00027	0.0093	<0.0060	200	0.455	<0.000010	<0.00020	0.187	<0.0050	0.0892	0.0936	539
	Maximum	0.00267	0.00055	1.11	0.0133	350	0.993	<0.000020	0.00076	1.73	0.131	0.225	0.233	858
	Geometric Mean	0.00066	0.00040	0.0385	0.00683	292	0.768	0.0000084	0.000283	0.308	0.02669	0.1541	0.1548	734
	Count <DL	0	0	0	3	0	0	12	7	0	2	0	0	0
	Standard Deviation	0.00062	0.00008	0.3104	0.00390	46	0.143	0.0000023	0.000231	0.427	0.04763	0.0394	0.0395	100
	1st Quartile	0.00047	0.00036	0.0141	0.00405	250	0.68	8.80E-06	0.0002	0.228	0.01388	0.131	0.135	732
	Median	0.00068	0.00041	0.0342	0.0082	320	0.805	1.00E-05	0.0002	0.259	0.0205	0.1605	0.1545	760
	3rd Quartile	0.00073	0.00044	0.0693	0.01122	322	0.876	1.00E-05	0.00049	0.352	0.0925	0.178	0.1855	805
3-Mains 2North 3M2N	Average	0.000272	0.000251	0.02022	0.00522	337	0.789	0.0000108	0.001371	0.2832	0.06702	0.0986	0.1092	594
	Count	8	9	8	9	9	8	9	9	8	9	8	9	8
	Minimum	<0.00010	<0.00020	<0.0030	<0.0030	240	0.69	<0.000010	<0.00040	<0.020	<0.0050	0.0084	0.0078	349
	Maximum	0.00055	0.00044	0.123	0.0196	400	0.97	0.000030	0.00418	1.32	0.346	0.212	0.206	831
	Geometric Mean	0.000194	0.000207	0.00646	0.00367	332	0.785	0.0000092	0.000742	0.0984	0.02243	0.0533	0.0598	562
	Count <DL	4	3	2	6	0	0	7	2	1	3	0	0	0
	Standard Deviation	0.000210	0.000153	0.04170	0.00576	61	0.084	0.0000077	0.001479	0.4341	0.11019	0.0836	0.0854	203
	1st Quartile	0.0001	<0.00020	0.00285	<0.0060	280	0.75	<0.000010	0.00021	0.028	<0.010	0.0124	0.0115	419
	Median	0.000215	0.0002	0.00545	<0.0060	380	0.778	<0.000020	0.00056	0.171	0.0198	0.1056	0.149	601
	3rd Quartile	0.000442	0.00041	0.0101	0.004	390	0.804	<0.000020	0.00271	0.2625	0.0869	0.166	0.173	771
1-Mains 2North 1M2N	Average	0.01004	0.00798	0.00359	0.00167	481	1.006	0.0000056	0.000151	4.70	3.7561	0.441	0.439	353
	Count	9	9	9	9	9	9	9	9	9	9	9	9	9
	Minimum	0.00527	0.00353	<0.0030	<0.0030	430	0.901	<0.000010	<0.00020	3.40	0.0052	0.252	0.226	221
	Maximum	0.0216	0.0151	0.0158	<0.0060	530	1.14	<0.000020	0.00032	6.71	5.77	0.596	0.577	459
	Geometric Mean	0.00917	0.00731	0.00239	0.00162	480	1.004	0.0000054	0.000135	4.59	1.8626	0.427	0.423	345
	Count <DL	0	0	6	9	0	0	9	7	0	0	0	0	0
	Standard Deviation	0.00498	0.00353	0.00468	0.00050	31	0.073	0.0000017	0.000083	1.12	2.0000	0.116	0.119	78
	1st Quartile	0.00784	0.00497	<0.0030	<0.0030	460	0.948	<0.000010	<0.00020	3.76	3.1	0.354	0.365	311
	Median	0.00821	0.00748	<0.0030	<0.0030	480	0.999	<0.000010	<0.00020	4.53	4.22	0.416	0.416	335
	3rd Quartile	0.0118	0.00931	0.0036	<0.0030	510	1.05	<0.000010	<0.00040	5.43	5.37	0.533	0.551	425
5 Mains 2North 5M#2	Average	0.00878	0.00810	0.00216	0.00150	547.5	0.882	0.0000050	0.000124	0.943	0.713	0.179	0.162	185.4
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	0.00599	0.00628	<0.0030	<0.0030	520	0.802	<0.000010	<0.00020	0.565	0.528	0.144	0.147	172
	Maximum	0.0148	0.00926	0.0050	<0.0030	600	0.999	<0.000010	0.00029	1.60	1.48	0.284	0.182	204
	Geometric Mean	0.00847	0.00802	0.00192	0.00150	546.9	0.880	0.0000050	0.000114	0.860	0.674	0.176	0.162	185.2
	Count <DL	0	0	6	8	0	0	8	7	0	0	0	0	0
	Standard Deviation	0.00271	0.00116	0.00131	0.00000	28.7	0.070	0.0000000	0.000067	0.449	0.313	0.044	0.011	9.7
	1st Quartile	0.0074	0.00746	0.0015	0.0015	527.5	0.836	5.00E-06	0.0001	0.617	0.58	0.16	0.154	178.8
	Median	0.00855	0.00842	0.0015	0.0015	540	0.865	5.00E-06	0.0001	0.695	0.62	0.166	0.163	186
	3rd Quartile	0.00905	0.00905	0.00195	0.0015	557.5	0.924	5.00E-06	0.0001	1.29	0.647	0.178	0.168	189

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
2 North Portal Sump 2NPS E283433	Average	222	0.00291	0.0028	7.49	0.000193	0.000175	313	949	0.000088	0.00490	0.00437			
	Count	12	12	12	12	12	12	12	12	12	12	12			
	Minimum	141	<0.0020	0.0019	7.29	<0.00020	<0.00020	221	680	<0.00010	<0.0050	<0.0050			
	Maximum	254	0.0046	0.0043	7.78	0.00032	<0.00040	362	1100	<0.00020	0.0088	<0.010			
	Geometric Mean	219	0.00263	0.0028	7.49	0.000185	0.000168	311	942	0.000084	0.00467	0.00420			
	Count <DL	0	2	0	0	11	12	0	0	12	11	12			
	Standard Deviation	33	0.00116	0.0007	0.15	0.000055	0.000045	37	109	0.000023	0.00156	0.00113			
	1st Quartile	219	0.00242	0.0023	7.42	0.0002	0.000175	299	927	8.80E-05	0.005	0.00438			
	Median	233	0.0031	0.0027	7.44	0.0002	0.0002	319	945	0.0001	0.005	0.005			
	3rd Quartile	242	0.00352	0.0032	7.55	0.0002	0.0002	340	992	0.0001	0.005	0.005			
3-Mains 2North 3M2N	Average	268	0.00259	0.00286	7.50	0.000138	0.000156	275	847	0.000097	0.00656	0.00633		0.0100	0.0607
	Count	9	8	9	9	8	9	9	9	9	8	9		2	9
	Minimum	200	<0.0010	<0.0010	6.75	<0.00020	<0.00020	215	700	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	324	0.0108	0.0104	8.07	<0.00040	<0.00040	337	1100	0.00027	0.030	0.027		<0.020	0.12
	Geometric Mean	263	0.00157	0.00189	7.49	0.000130	0.000147	272	837	0.000082	0.00406	0.00443		0.0100	0.0320
	Count <DL	0	2	3	0	8	9	0	0	8	7	8		2	4
	Standard Deviation	53	0.00340	0.00316	0.52	0.000052	0.000053	42	144	0.000070	0.00954	0.00785		0.0000	0.0515
	1st Quartile	220	0.00095	<0.0020	7.03	0.0001	<0.00020	243	730	<0.00010	0.0025	<0.0050		0.01	<0.015
	Median	285	0.0016	0.0019	7.51	0.0001	<0.00040	269	800	<0.00020	0.0025	<0.010		0.01	0.085
	3rd Quartile	322	0.00225	0.0023	8	0.0002	<0.00040	311	930	<0.00020	0.005	<0.010		0.01	0.11
1-Mains 2North 1M2N	Average	315	0.00087	0.00056	7.48	0.001470	0.000111	184.4	548	0.000056	0.01592	0.00608		0.0100	0.2008
	Count	9	9	9	9	9	9	9	9	9	9	9		2	9
	Minimum	246	<0.0010	<0.0010	7.3	<0.00020	<0.00020	94.5	280	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	361	0.0032	<0.0020	7.7	0.0101	<0.00040	245	810	<0.00020	0.0543	0.0146		<0.020	0.25
	Geometric Mean	313	0.00067	0.00054	7.48	0.000374	0.000108	178.1	522	0.000054	0.00751	0.00435		0.0100	0.1532
	Count <DL	0	7	9	0	3	9	0	0	9	5	6		2	1
	Standard Deviation	38	0.00090	0.00017	0.13	0.003268	0.000033	47.4	176	0.000017	0.01883	0.00545		0.0000	0.0772
	1st Quartile	284	<0.0010	<0.0010	7.39	<0.00020	<0.00020	156	420	<0.00010	<0.0050	<0.0050		0.01	0.19
	Median	328	<0.0010	<0.0010	7.49	0.00027	<0.00020	180	480	<0.00010	<0.0050	<0.0050		0.01	0.23
	3rd Quartile	346	<0.0010	<0.0010	7.56	0.00047	<0.00020	223	690	<0.00010	0.025	0.0111		0.01	0.25
5 Mains 2North 5M#2	Average	246.2	0.00235	0.00069	7.58	0.001418	0.000100	56.4	166.2	0.000070	0.01411	0.00250		0.0100	0.089
	Count	8	8	8	8	8	8	8	8	8	8	8		2	8
	Minimum	235	<0.0010	<0.0010	7.23	<0.00020	<0.00020	49.9	140	<0.00010	<0.0050	<0.0050		<0.020	0.080
	Maximum	264	0.0144	0.0020	7.90	0.00439	<0.00020	65.1	200	0.00021	0.0511	<0.0050		<0.020	0.11
	Geometric Mean	246.0	0.00087	0.00059	7.58	0.000727	0.000100	56.3	165.1	0.000060	0.00711	0.00250		0.0100	0.088
	Count <DL	0	6	7	0	1	8	0	0	7	4	8		2	0
	Standard Deviation	11.4	0.00488	0.00053	0.24	0.001767	0.000000	4.5	21.3	0.000057	0.01785	0.00000		0.0000	0.010
	1st Quartile	236.8	0.0005	0.0005	7.4	0.000448	0.0001	55	155	5.00E-05	0.0025	0.0025		0.01	0.083
	Median	243	0.0005	0.0005	7.62	0.000595	0.0001	56.5	165	5.00E-05	0.00565	0.0025		0.01	0.084
	3rd Quartile	254.5	0.00072	0.0005	7.75	0.001522	0.0001	57.2	175	5.00E-05	0.0167	0.0025		0.01	0.093

Notes:

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Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
MW002	Average		0.00208		0.00525	285.0		0.0000175	0.000350		5.02		1.57	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00197		<0.0060	280		<0.000020	<0.00040		4.89		1.51	
	Maximum		0.00219		<0.015	290		<0.000050	<0.0010		5.09		1.69	
	Geometric Mean		0.00208		0.00474	285.0		0.0000158	0.000316		5.02		1.57	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.00010		0.00260	5.8		0.0000087	0.000173		0.09		0.08	
	1st Quartile		0.00201		0.003	280		1.00E-05	0.0002		5		1.52	
	Median		0.00208		0.00525	285		1.75E-05	0.00035		5.06		1.54	
	3rd Quartile		0.00215		0.0075	290		2.50E-05	0.0005		5.08		1.58	
MW004	Average		0.00040		0.0102	121.2		0.0000050	0.00104		0.0119		0.0137	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00027		0.0049	95		<0.000010	0.00068		0.0089		0.0021	
	Maximum		0.00055		0.0172	160		<0.000010	0.00125		0.0181		0.0226	
	Geometric Mean		0.00038		0.0093	119.0		0.0000050	0.00102		0.0115		0.0098	
	Count <DL		0		0	0		4	0		0		0	
	Standard Deviation		0.00013		0.0052	27.8		0.0000000	0.00025		0.0042		0.0097	
	1st Quartile		0.00029		0.0073	106.2		5.00E-06	0.001		0.0097		0.0076	
	Median		0.00038		0.0094	115		5.00E-06	0.00112		0.0104		0.0152	
	3rd Quartile		0.00049		0.0124	130		5.00E-06	0.00117		0.0126		0.0213	
QU1009D	Average		0.114		0.00150	173.3		0.0000050	0.000100		0.454		0.0439	
	Count		3		3	3		3	3		3		3	
	Minimum		0.106		<0.0030	170		<0.000010	<0.00020		0.364		0.0394	
	Maximum		0.122		<0.0030	180		<0.000010	<0.00020		0.552		0.0515	
	Geometric Mean		0.114		0.00150	173.3		0.0000050	0.000100		0.447		0.0436	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.008		0.00000	5.8		0.0000000	0.000000		0.094		0.0066	
	1st Quartile		0.11		0.0015	170		5.00E-06	0.0001		0.404		0.0402	
	Median		0.115		<0.0030	170		<0.000010	<0.00020		0.445		0.0409	
	3rd Quartile		0.118		0.0015	175		5.00E-06	0.0001		0.499		0.0462	
QU1009S	Average		0.0908		0.00150	133.3		0.0000050	0.000100		4.12		0.332	
	Count		3		3	3		3	3		3		3	
	Minimum		0.0825		<0.0030	130		<0.000010	<0.00020		3.58		0.285	
	Maximum		0.0985		<0.0030	140		<0.000010	<0.00020		4.44		0.358	
	Geometric Mean		0.0906		0.00150	133.3		0.0000050	0.000100		4.10		0.330	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.0080		0.00000	5.8		0.0000000	0.000000		0.47		0.041	
	1st Quartile		0.087		0.0015	130		5.00E-06	0.0001		3.96		0.319	
	Median		0.0915		<0.0030	130		<0.000010	<0.00020		4.34		0.353	
	3rd Quartile		0.095		0.0015	135		5.00E-06	0.0001		4.39		0.356	

Notes:

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Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
MW002	Average	52.3		0.00240	6.63		0.000350	419.8	1300	0.000175		0.0088			
	Count	4		4	4		4	4	4	4		4			
	Minimum	49.6		0.0022	6.19		<0.00040	407	1200	<0.00020		<0.010			
	Maximum	55.3		<0.0050	6.84		<0.0010	436	1400	<0.00050		<0.025			
	Geometric Mean	52.2		0.00240	6.62		0.000316	419.6	1298	0.000158		0.0079			
	Count <DL	0		2	0		4	0	0	4		4			
	Standard Deviation	2.4		0.00014	0.30		0.000173	12.7	81	0.000087		0.0043			
	1st Quartile	51		0.00235	6.59		0.0002	411.5	1275	0.0001		0.005			
	Median	52.1		0.00245	6.74		0.00035	418	1300	0.000175		0.0088			
	3rd Quartile	53.4		0.0025	6.79		0.0005	426.2	1325	0.00025		0.0125			
MW004	Average	31.8		0.00108	6.81		0.000100	126.0	360	0.000050		0.00720			
	Count	4		4	4		4	4	4	4		4			
	Minimum	22.9		<0.0010	6.46		<0.00020	111	270	<0.00010		<0.0050			
	Maximum	42.2		0.0017	7.13		<0.00020	143	440	<0.00010		0.0118			
	Geometric Mean	31.1		0.00098	6.80		0.000100	125.4	353	0.000050		0.00612			
	Count <DL	0		1	0		4	0	0	4		1			
	Standard Deviation	7.9		0.00049	0.29		0.000000	14.0	75	0.000000		0.00422			
	1st Quartile	28.8		0.00088	6.64		0.0001	117	315	5.00E-05		0.00438			
	Median	31		0.00105	6.82		0.0001	125	365	5.00E-05		0.00725			
	3rd Quartile	34		0.00125	6.99		0.0001	134	410	5.00E-05		0.01008			
QU1009D	Average	37.4		0.00050	7.64		0.000100	22.2	63.3	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	33.0		<0.0010	7.46		<0.00020	21.2	61	<0.00010		<0.0050			
	Maximum	43.9		<0.0010	7.76		<0.00020	22.8	66	<0.00010		<0.0050			
	Geometric Mean	37.1		0.00050	7.64		0.000100	22.2	63.3	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	5.7		0.00000	0.16		0.000000	0.9	2.5	0.000000		0.00000			
	1st Quartile	34.2		0.0005	7.58		0.0001	21.9	62	5.00E-05		0.0025			
	Median	35.3		<0.0010	7.71		<0.00020	22.6	63	<0.00010		<0.0050			
	3rd Quartile	39.6		0.0005	7.74		0.0001	22.7	64.5	5.00E-05		0.0025			
QU1009S	Average	8.91		0.00050	6.99		0.000100	35.0	105.0	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	8.16		<0.0010	6.84		<0.00020	34.0	95	<0.00010		<0.0050			
	Maximum	9.37		<0.0010	7.06		<0.00020	35.7	120	<0.00010		<0.0050			
	Geometric Mean	8.89		0.00050	6.99		0.000100	35.0	104.5	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	0.66		0.00000	0.13		0.000000	0.9	13.2	0.000000		0.00000			
	1st Quartile	8.68		0.0005	6.95		0.0001	34.7	97.5	5.00E-05		0.0025			
	Median	9.2		<0.0010	7.06		<0.00020	35.4	100	<0.00010		<0.0050			
	3rd Quartile	9.28		0.0005	7.06		0.0001	35.6	110	5.00E-05		0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0813A	Average		0.388		0.00188	212.5		0.0000063	0.000125		0.217		0.0437	
	Count		4		4	4		4	4		4		4	
	Minimum		0.351		<0.0030	190		<0.000010	<0.00020		0.181		0.0355	
	Maximum		0.452		<0.0060	220		<0.000020	<0.00040		0.291		0.0647	
	Geometric Mean		0.386		0.00178	212.1		0.0000059	0.000119		0.213		0.0423	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.045		0.00075	15.0		0.0000025	0.000050		0.052		0.0141	
	1st Quartile		0.358		0.0015	212.5		5.00E-06	0.0001		0.182		0.0358	
	Median		0.374		0.0015	220		5.00E-06	0.0001		0.198		0.0373	
	3rd Quartile		0.402		0.00188	220		6.20E-06	0.000125		0.234		0.0452	
QU0813B	Average		0.501		0.00257	133.3		0.0000050	0.000100		0.158		0.0717	
	Count		3		3	3		3	3		3		3	
	Minimum		0.486		<0.0030	130		<0.000010	<0.00020		0.144		0.0635	
	Maximum		0.512		0.0031	140		<0.000010	<0.00020		0.180		0.0807	
	Geometric Mean		0.501		0.00243	133.3		0.0000050	0.000100		0.157		0.0714	
	Count <DL		0		1	0		3	3		0		0	
	Standard Deviation		0.014		0.00092	5.8		0.0000000	0.000000		0.020		0.0086	
	1st Quartile		0.496		0.0023	130		5.00E-06	0.0001		0.146		0.0672	
	Median		0.506		0.0031	130		<0.000010	<0.00020		0.149		0.0709	
	3rd Quartile		0.509		0.0031	135		5.00E-06	0.0001		0.164		0.0758	
QU1410	Average		0.1012		0.0075	302.5		0.0000250	0.00050		2.32		1.48	
	Count		4		4	4		4	4		4		4	
	Minimum		0.0942		<0.015	280		<0.000050	<0.0010		1.66		1.41	
	Maximum		0.109		<0.015	320		<0.000050	<0.0010		2.73		1.54	
	Geometric Mean		0.1010		0.0075	302.0		0.0000250	0.00050		2.28		1.48	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.0074		0.0000	20.6		0.0000000	0.00000		0.47		0.06	
	1st Quartile		0.0953		0.0075	287.5		2.50E-05	0.0005		2.15		1.46	
	Median		0.1008		0.0075	305		2.50E-05	0.0005		2.44		1.5	
	3rd Quartile		0.1068		0.0075	320		2.50E-05	0.0005		2.61		1.52	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0813A	Average	67.4		0.00062	7.66		0.000125	24.8	71.5	0.001380		0.00312			
	Count	4		4	4		4	4	4	4		4			
	Minimum	60.4		<0.0010	7.55		<0.00020	21.5	61	<0.00010		<0.0050			
	Maximum	78.5		<0.0020	7.83		<0.00040	26.6	81	0.00387		<0.010			
	Geometric Mean	67.1		0.00059	7.66		0.000119	24.7	70.9	0.000564		0.00297			
	Count <DL	0		4	0		4	0	0	1		4			
	Standard Deviation	7.9		0.00025	0.12		0.000050	2.3	10.5	0.001720		0.00125			
	1st Quartile	62.9		0.0005	7.61		0.0001	24	63.2	0.000358		0.0025			
	Median	65.4		0.0005	7.64		0.0001	25.5	72	0.0008		0.0025			
	3rd Quartile	70		0.00062	7.7		0.000125	26.2	80.2	0.001822		0.00312			
QU0813B	Average	33.1		0.00050	7.94		0.000100	12.5	37.0	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	29.2		<0.0010	7.84		<0.00020	11.6	31	<0.00010		<0.0050			
	Maximum	36.7		<0.0010	8.13		<0.00020	13.0	43	<0.00010		<0.0050			
	Geometric Mean	32.9		0.00050	7.94		0.000100	12.5	36.7	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	3.8		0.00000	0.16		0.000000	0.8	6.0	0.000000		0.00000			
	1st Quartile	31.2		0.0005	7.85		0.0001	12.2	34	5.00E-05		0.0025			
	Median	33.3		<0.0010	7.86		<0.00020	12.8	37	<0.00010		<0.0050			
	3rd Quartile	35		0.0005	8		0.0001	12.9	40	5.00E-05		0.0025			
QU1410	Average	66.4		0.00250	6.68		0.00050	637.0	1775	0.000250		0.0125	0.00150		
	Count	4		4	4		4	4	4	4		4	1		
	Minimum	64.7		<0.0050	6.56		<0.0010	593	1600	<0.00050		<0.025	<0.0030		
	Maximum	68.0		<0.0050	6.81		<0.0010	663	2000	<0.00050		<0.025	<0.0030		
	Geometric Mean	66.4		0.00250	6.68		0.00050	636.4	1768	0.000250		0.0125	0.00150		
	Count <DL	0		4	0		4	0	0	4		4	1		
	Standard Deviation	1.8		0.00000	0.11		0.00000	30.6	170	0.000000		0.0000	0.00000		
	1st Quartile	65		0.0025	6.61		0.0005	629.8	1675	0.00025		0.0125	<0.0030		
	Median	66.5		0.0025	6.68		0.0005	646	1750	0.00025		0.0125	<0.0030		
	3rd Quartile	67.9		0.0025	6.75		0.0005	653.2	1850	0.00025		0.0125	<0.0030		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1011S	Average		0.00137		0.00150	96.0		0.0000050	0.000100		0.390		0.0546	
	Count		2		2	2		2	2		2		2	
	Minimum		0.00106		<0.0030	72		<0.000010	<0.00020		0.179		0.0384	
	Maximum		0.00168		<0.0030	120		<0.000010	<0.00020		0.602		0.0709	
	Geometric Mean		0.00133		0.00150	93.0		0.0000050	0.000100		0.328		0.0522	
	Count <DL		0		2	0		2	2		0		0	
	Standard Deviation		0.00044		0.00000	33.9		0.0000000	0.000000		0.299		0.0230	
	1st Quartile		0.00122		0.0015	84		5.00E-06	0.0001		0.285		0.0465	
	Median		0.00137		0.0015	96		5.00E-06	0.0001		0.39		0.0546	
	3rd Quartile		0.00152		0.0015	108		5.00E-06	0.0001		0.496		0.0628	
QU1011D	Average		0.00977		0.01155	300.0		0.0000050	0.000100		2.12		0.235	
	Count		2		2	2		2	2		2		2	
	Minimum		0.00795		<0.0030	290		<0.000010	<0.00020		1.87		0.226	
	Maximum		0.0116		0.0216	310		<0.000010	<0.00020		2.36		0.244	
	Geometric Mean		0.00960		0.00569	299.8		0.0000050	0.000100		2.10		0.235	
	Count <DL		0		1	0		2	2		0		0	
	Standard Deviation		0.00258		0.01421	14.1		0.0000000	0.000000		0.35		0.013	
	1st Quartile		0.00886		0.00652	295		5.00E-06	0.0001		1.99		0.23	
	Median		0.00977		0.01155	300		5.00E-06	0.0001		2.12		0.235	
	3rd Quartile		0.01069		0.01658	305		5.00E-06	0.0001		2.24		0.24	
QU1013D	Average		0.000157		0.00300	596.7		0.0000100	0.000200		0.725		0.189	
	Count		3		3	3		3	3		3		3	
	Minimum		<0.00020		<0.0060	590		<0.000020	<0.00040		0.478		0.135	
	Maximum		0.00027		<0.0060	610		<0.000020	<0.00040		1.04		0.225	
	Geometric Mean		0.000139		0.00300	596.6		0.0000100	0.000200		0.689		0.185	
	Count <DL		2		3	0		3	3		0		0	
	Standard Deviation		0.000098		0.00000	11.5		0.0000000	0.000000		0.287		0.048	
	1st Quartile		0.0001		0.003	590		1.00E-05	0.0002		0.568		0.171	
	Median		<0.00020		<0.0060	590		<0.000020	<0.00040		0.658		0.207	
	3rd Quartile		0.000185		0.003	600		1.00E-05	0.0002		0.849		0.216	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1011S	Average	7.66		0.00050	6.64		0.000100	1.50	4.2	0.000050		0.00250			
	Count	2		2	2		2	2	2	2		2			
	Minimum	2.62		<0.0010	6.57		<0.00020	<3.0	3.4	<0.00010		<0.0050			
	Maximum	12.7		<0.0010	6.71		<0.00020	<3.0	4.9	<0.00010		<0.0050			
	Geometric Mean	5.77		0.00050	6.64		0.000100	1.50	4.1	0.000050		0.00250			
	Count <DL	0		2	0		2	2	0	2		2			
	Standard Deviation	7.13		0.00000	0.10		0.000000	0.00	1.1	0.000000		0.00000			
	1st Quartile	5.14		0.0005	6.6		0.0001	1.5	3.8	5.00E-05		0.0025			
	Median	7.66		0.0005	6.64		0.0001	1.5	4.2	5.00E-05		0.0025			
	3rd Quartile	10.18		0.0005	6.68		0.0001	1.5	4.5	5.00E-05		0.0025			
QU1011D	Average	242.0		0.00050	7.14		0.000100	1.50	0.85	0.000050		0.00250			
	Count	2		2	2		2	2	2	2		2			
	Minimum	229		<0.0010	7.14		<0.00020	<3.0	<1.0	<0.00010		<0.0050			
	Maximum	255		<0.0010	7.15		<0.00020	<3.0	1.2	<0.00010		<0.0050			
	Geometric Mean	241.7		0.00050	7.14		0.000100	1.50	0.77	0.000050		0.00250			
	Count <DL	0		2	0		2	2	1	2		2			
	Standard Deviation	18.4		0.00000	0.01		0.000000	0.00	0.49	0.000000		0.00000			
	1st Quartile	235.5		0.0005	7.14		0.0001	1.5	0.68	5.00E-05		0.0025			
	Median	242		0.0005	7.14		0.0001	1.5	0.85	5.00E-05		0.0025			
	3rd Quartile	248.5		0.0005	7.15		0.0001	1.5	1.02	5.00E-05		0.0025			
QU1013D	Average	430.0		0.00100	7.40		0.000200	169.7	486	0.000100		0.0050			
	Count	3		3	3		3	3	3	3		3			
	Minimum	403		<0.0020	7.24		<0.00040	150	410	<0.00020		<0.010			
	Maximum	454		<0.0020	7.57		<0.00040	184	560	<0.00020		<0.010			
	Geometric Mean	429.5		0.00100	7.40		0.000200	169.0	482	0.000100		0.0050			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	25.6		0.00000	0.17		0.000000	17.6	75	0.000000		0.0000			
	1st Quartile	418		0.001	7.32		0.0002	162.5	450	0.0001		0.005			
	Median	433		<0.0020	7.4		<0.00040	175	490	<0.00020		<0.010			
	3rd Quartile	443.5		0.001	7.48		0.0002	179.5	525	0.0001		0.005			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1105S	Average		0.02342		0.00198	98.2		0.0000050	0.000100		0.2362		0.0377	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00697		<0.0030	63		<0.000010	<0.00020		0.0754		0.0198	
	Maximum		0.0645		0.0034	160		<0.000010	<0.00020		0.651		0.0816	
	Geometric Mean		0.01533		0.00184	91.7		0.0000050	0.000100		0.1549		0.0314	
	Count <DL		0		3	0		4	4		0		0	
	Standard Deviation		0.02746		0.00095	44.2		0.0000000	0.000000		0.2772		0.0295	
	1st Quartile		0.00969		0.0015	68.2		5.00E-06	0.0001		0.0904		0.0212	
	Median		0.0111		0.0015	85		5.00E-06	0.0001		0.1092		0.0246	
	3rd Quartile		0.02482		0.00198	115		5.00E-06	0.0001		0.255		0.0412	
QU1105D	Average		0.00364		0.0075	385.0		0.0000250	0.00050		0.0125		0.1089	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00178		<0.015	380		<0.000050	<0.0010		<0.025		0.0547	
	Maximum		0.00588		<0.015	390		<0.000050	<0.0010		<0.025		0.138	
	Geometric Mean		0.00333		0.0075	385.0		0.0000250	0.00050		0.0125		0.1027	
	Count <DL		0		4	0		4	4		4		0	
	Standard Deviation		0.00173		0.0000	5.8		0.0000000	0.00000		0.0000		0.0370	
	1st Quartile		0.00268		0.0075	380		2.50E-05	0.0005		0.0125		0.1044	
	Median		0.00346		0.0075	385		2.50E-05	0.0005		0.0125		0.1215	
	3rd Quartile		0.00442		0.0075	390		2.50E-05	0.0005		0.0125		0.126	
QU1109S	Average		0.1040		0.00390	472.0		0.0000130	0.000260		0.265		0.0313	
	Count		5		5	5		5	5		5		5	
	Minimum		0.0914		<0.0060	440		<0.000020	<0.00040		0.058		0.0239	
	Maximum		0.117		<0.015	490		<0.000050	<0.0010		0.642		0.0487	
	Geometric Mean		0.1036		0.00360	471.7		0.0000120	0.000240		0.197		0.0301	
	Count <DL		0		5	0		5	5		0		0	
	Standard Deviation		0.0103		0.00201	19.2		0.0000067	0.000134		0.228		0.0106	
	1st Quartile		0.0997		<0.0060	470		<0.000020	<0.00040		0.16		0.0242	
	Median		0.1		<0.0060	480		<0.000020	<0.00040		0.166		0.0255	
	3rd Quartile		0.112		<0.0060	480		<0.000020	<0.00040		0.3		0.0344	
QU1109M	Average		0.00449		0.00375	487.5		0.0000125	0.000250		7.28		0.315	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00414		<0.0030	450		<0.000010	<0.00020		4.80		0.207	
	Maximum		0.00475		<0.015	500		<0.000050	<0.0010		9.87		0.464	
	Geometric Mean		0.00449		0.00317	487.0		0.0000106	0.000211		7.06		0.301	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.00026		0.00260	25.0		0.0000087	0.000173		2.07		0.109	
	1st Quartile		0.00439		0.00262	487.5		8.80E-06	0.000175		6.52		0.255	
	Median		0.00454		0.003	500		1.00E-05	0.0002		7.24		0.294	
	3rd Quartile		0.00464		0.00412	500		1.38E-05	0.000275		8		0.353	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1105S	Average	38.8		0.00050	7.15		0.000100	18.8	54.8	0.000288		0.00250			
	Count	4		4	4		4	4	4	4		4			
	Minimum	24.4		<0.0010	6.78		<0.00020	14.4	36	<0.00010		<0.0050			
	Maximum	72.2		<0.0010	7.51		<0.00020	25.0	87	0.00076		<0.0050			
	Geometric Mean	34.9		0.00050	7.15		0.000100	18.3	51.6	0.000153		0.00250			
	Count <DL	0		4	0		4	0	0	2		4			
	Standard Deviation	22.6		0.00000	0.37		0.000000	5.1	23.0	0.000335		0.00000			
	1st Quartile	25.1		0.0005	6.87		0.0001	14.8	39.8	5.00E-05		0.0025			
	Median	29.3		0.0005	7.16		0.0001	17.8	48	0.00017		0.0025			
	3rd Quartile	43		0.0005	7.44		0.0001	21.8	63	0.000408		0.0025			
QU1105D	Average	862.2		0.00250	7.80		0.00050	267	162	0.03338		0.0125			
	Count	4		4	4		4	4	4	4		4			
	Minimum	811		<0.0050	7.68		<0.0010	125	110	0.00240		<0.025			
	Maximum	891		<0.0050	7.88		<0.0010	408	280	0.0539		<0.025			
	Geometric Mean	861.7		0.00250	7.80		0.00050	235	150	0.02023		0.0125			
	Count <DL	0		4	0		4	0	0	0		4			
	Standard Deviation	35.3		0.00000	0.09		0.00000	143	79	0.02468		0.0000			
	1st Quartile	854.5		0.0025	7.78		0.0005	153	117	0.01905		0.0125			
	Median	873.5		0.0025	7.82		0.0005	267	130	0.0386		0.0125			
	3rd Quartile	881.2		0.0025	7.84		0.0005	381	175	0.05292		0.0125			
QU1109S	Average	283.8		0.00130	7.91		0.000260	53.2	138.0	0.002354		0.0065			
	Count	5		5	5		5	5	5	5		5			
	Minimum	277		<0.0020	7.66		<0.00040	47.3	120	<0.00020		<0.010			
	Maximum	295		<0.0050	8.03		<0.0010	61.5	160	0.00566		<0.025			
	Geometric Mean	283.7		0.00120	7.90		0.000240	53.0	137.2	0.000845		0.0060			
	Count <DL	0		5	0		5	0	0	2		5			
	Standard Deviation	7.0		0.00067	0.16		0.000134	5.3	16.4	0.002805		0.0034			
	1st Quartile	279		<0.0020	7.84		<0.00040	51.1	130	<0.00050		<0.010			
	Median	284		<0.0020	7.98		<0.00040	52	130	0.00059		<0.010			
	3rd Quartile	284		<0.0020	8.02		<0.00040	54.1	150	0.00517		<0.010			
QU1109M	Average	375.5		0.00125	7.11		0.000250	227.5	682	0.000125		0.00625			
	Count	4		4	4		4	4	4	4		4			
	Minimum	358		<0.0010	7.08		<0.00020	202	550	<0.00010		<0.0050			
	Maximum	393		<0.0050	7.19		<0.0010	251	800	<0.00050		<0.025			
	Geometric Mean	375.3		0.00106	7.11		0.000211	226.8	676	0.000106		0.00529			
	Count <DL	0		4	0		4	0	0	4		4			
	Standard Deviation	14.6		0.00087	0.05		0.000173	20.5	102	0.000087		0.00433			
	1st Quartile	368.5		0.00088	7.09		0.000175	217.8	647	8.80E-05		0.00438			
	Median	375.5		0.001	7.09		0.0002	228.5	690	0.0001		0.005			
	3rd Quartile	382.5		0.00138	7.12		0.000275	238.2	725	0.000138		0.00688			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0821GS	Average		0.324		0.00403	196.7		0.0000100	0.000200		1.248		0.0438	
	Count		3		3	3		3	3		3		3	
	Minimum		0.197		<0.0060	190		<0.000020	<0.00040		0.330		0.0351	
	Maximum		0.579		0.0061	200		<0.000020	<0.00040		3.04		0.0595	
	Geometric Mean		0.282		0.00380	196.6		0.0000100	0.000200		0.721		0.0425	
	Count <DL		0		2	0		3	3		0		0	
	Standard Deviation		0.221		0.00179	5.8		0.0000000	0.000000		1.552		0.0136	
	1st Quartile		0.197		0.003	195		1.00E-05	0.0002		0.352		0.0359	
	Median		0.197		<0.0060	200		<0.000020	<0.00040		0.374		0.0368	
	3rd Quartile		0.388		0.00455	200		1.00E-05	0.0002		1.707		0.0482	
QU0821GD	Average		0.179		0.0075	203.3		0.0000250	0.00050		0.818		0.0718	
	Count		3		3	3		3	3		3		3	
	Minimum		0.177		<0.015	200		<0.000050	<0.0010		0.772		0.0444	
	Maximum		0.182		<0.015	210		<0.000050	<0.0010		0.860		0.112	
	Geometric Mean		0.179		0.0075	203.3		0.0000250	0.00050		0.817		0.0665	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.003		0.0000	5.8		0.0000000	0.00000		0.044		0.0356	
	1st Quartile		0.178		0.0075	200		2.50E-05	0.0005		0.797		0.0518	
	Median		0.179		<0.015	200		<0.000050	<0.0010		0.822		0.0591	
	3rd Quartile		0.18		0.0075	205		2.50E-05	0.0005		0.841		0.0856	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0821GS	Average	173.3		0.00100	8.00		0.000200	3.00	0.67	0.000100		0.0050			
	Count	3		3	3		3	3	3	3		3			
	Minimum	149		<0.0020	7.82		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	Maximum	206		<0.0020	8.16		<0.00040	<6.0	<2.0	<0.00020		<0.010			
	Geometric Mean	171.7		0.00100	8.00		0.000200	3.00	0.63	0.000100		0.0050			
	Count <DL	0		3	0		3	3	3	3		3			
	Standard Deviation	29.4		0.00000	0.17		0.000000	0.00	0.29	0.000000		0.0000			
	1st Quartile	157		0.001	7.92		0.0002	3	0.5	0.0001		0.005			
	Median	165		<0.0020	8.03		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	3rd Quartile	185.5		0.001	8.09		0.0002	3	0.75	0.0001		0.005			
QU0821GD	Average	530		0.00250	7.77		0.00050	7.5	0.93	0.000250		0.0125			
	Count	3		3	3		3	3	3	3		3			
	Minimum	472		<0.0050	7.53		<0.0010	<15	<1.0	<0.00050		<0.025			
	Maximum	626		<0.0050	8		<0.0010	<15	1.8	<0.00050		<0.025			
	Geometric Mean	525		0.00250	7.77		0.00050	7.5	0.77	0.000250		0.0125			
	Count <DL	0		3	0		3	3	2	3		3			
	Standard Deviation	83		0.00000	0.24		0.00000	0.0	0.75	0.000000		0.0000			
	1st Quartile	482		0.0025	7.66		0.0005	7.5	0.5	0.00025		0.0125			
	Median	492		<0.0050	7.79		<0.0010	<15	<1.0	<0.00050		<0.025			
	3rd Quartile	559		0.0025	7.9		0.0005	7.5	1.15	0.00025		0.0125			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seepage (S)	Average	0.0651	0.0610	0.0228	0.00852	398	1.532	0.0000078	0.000306	0.271	0.1191	0.0670	0.0436	93.7
	Count	28	28	28	28	28	28	28	28	28	28	28	28	28
	Minimum	0.0205	0.0195	0.0074	<0.0060	150	0.658	<0.000010	<0.00020	0.076	0.0427	0.0105	0.0056	81.6
	Maximum	0.0831	0.0729	0.0771	0.0202	470	1.87	0.000027	0.00093	0.849	0.202	0.222	0.178	107
	Geometric Mean	0.0633	0.0593	0.0177	0.00773	388	1.498	0.0000067	0.000260	0.232	0.1105	0.0507	0.0303	93.5
	Count <DL	0	0	0	2	0	0	27	10	0	0	0	0	0
	Standard Deviation	0.0124	0.0117	0.0192	0.00410	76	0.294	0.0000056	0.000191	0.165	0.0426	0.0509	0.0413	5.6
	1st Quartile	0.0644	0.0586	0.0107	0.00552	367	1.338	5.00E-06	0.0002	0.167	0.095	0.0283	0.0162	90.7
	Median	0.068	0.0628	0.0146	0.00735	405	1.66	5.00E-06	0.00023	0.254	0.1225	0.053	0.0259	93.1
	3rd Quartile	0.0717	0.0673	0.0262	0.01032	460	1.742	1.00E-05	0.000358	0.312	0.1492	0.0796	0.0573	97.1
Seepage 2A (S2A)	Average	0.0613	0.0535	0.0297	0.00816	248	0.667	0.0000054	0.000185	0.717	0.5369	0.3418	0.3356	120.6
	Count	34	34	34	34	34	34	34	34	34	34	34	34	34
	Minimum	0.0132	0.0110	0.0043	<0.0030	82	0.196	<0.000010	<0.00020	0.090	0.0678	0.0172	0.0103	47.2
	Maximum	0.166	0.113	0.312	0.0832	360	0.932	0.000014	0.00073	2.85	1.26	0.776	0.780	209
	Geometric Mean	0.0488	0.0436	0.0130	0.00481	237	0.633	0.0000053	0.000149	0.528	0.3932	0.2190	0.2112	115.4
	Count <DL	0	0	0	5	0	0	33	23	0	0	0	0	0
	Standard Deviation	0.0396	0.0316	0.0669	0.01539	66	0.194	0.0000017	0.000149	0.560	0.3569	0.2533	0.2489	36.3
	1st Quartile	0.0324	0.0292	0.0067	0.0034	212	0.532	5.00E-06	0.0001	0.314	0.2225	0.1482	0.139	92.9
	Median	0.0482	0.0463	0.0098	0.00485	250	0.674	5.00E-06	0.0001	0.598	0.4955	0.2815	0.308	114
	3rd Quartile	0.0901	0.0803	0.0182	0.00595	300	0.836	5.00E-06	0.000223	1.012	0.7842	0.578	0.5688	141
Seepage 2B (S2B)	Average	0.0372	0.0314	0.0129	0.00346	293	0.692	0.0000055	0.000138	0.631	0.4157	0.1286	0.1263	165.0
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	0.0207	0.0198	0.0038	<0.0030	180	0.453	<0.000010	<0.00020	0.100	0.0503	0.0207	0.0206	92.9
	Maximum	0.0505	0.0391	0.0699	0.0125	350	0.867	0.000013	0.00029	1.05	0.884	0.201	0.208	208
	Geometric Mean	0.0357	0.0305	0.0081	0.00257	288	0.682	0.0000053	0.000126	0.482	0.2783	0.1027	0.0970	161.1
	Count <DL	0	0	0	9	0	0	15	12	0	0	0	0	0
	Standard Deviation	0.0101	0.0074	0.0182	0.00329	47	0.116	0.0000020	0.000070	0.357	0.2947	0.0666	0.0701	34.7
	1st Quartile	0.0273	0.0226	0.0051	0.0015	277	0.612	5.00E-06	0.0001	0.273	0.0782	0.0556	0.0363	140.8
	Median	0.0406	0.0348	0.0072	0.0015	310	0.72	5.00E-06	0.0001	0.766	0.424	0.1615	0.1635	176.5
	3rd Quartile	0.0447	0.0369	0.0081	0.0034	320	0.758	5.00E-06	0.000128	0.933	0.6448	0.1735	0.1715	193
Seep 2 Upstream (S2US)	Average	0.0835	0.0784	0.0078	0.00150	310	0.848	0.0000050	0.000145	1.90	1.84	0.1287	0.1268	191.5
	Count	4	4	4	4	4	4	4	4	4	4	4	4	4
	Minimum	0.0679	0.0630	0.0059	<0.0030	200	0.618	<0.000010	<0.00020	1.09	1.06	0.0968	0.0923	161
	Maximum	0.0962	0.0879	0.0116	<0.0030	370	0.997	<0.000010	0.00028	2.48	2.36	0.154	0.152	211
	Geometric Mean	0.0828	0.0777	0.0075	0.00150	301	0.834	0.0000050	0.000129	1.82	1.77	0.1269	0.1248	190.5
	Count <DL	0	0	0	4	0	0	4	3	0	0	0	0	0
	Standard Deviation	0.0122	0.0111	0.0027	0.00000	77	0.165	0.0000000	0.000090	0.58	0.55	0.0237	0.0250	21.6
	1st Quartile	0.0774	0.074	0.006	0.0015	282	0.788	5.00E-06	0.0001	1.76	1.71	0.1217	0.1213	185
	Median	0.085	0.0813	0.0068	0.0015	335	0.888	5.00E-06	0.0001	2.02	1.98	0.132	0.1315	197
	3rd Quartile	0.0911	0.0856	0.0087	0.0015	362	0.947	5.00E-06	0.000145	2.16	2.11	0.139	0.137	203.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 50 Statistics 2021 to 2022 30 Page(s)

2022-2023	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seepage (S)	Average	247.9	0.00059	0.00070	8.01	0.000118	0.000139	61.7	191	0.000070	0.00306	0.00348	0.010	0.108	0.0671
	Count	28	28	28	29	28	28	28	29	28	28	28	1	26	26
	Minimum	88.0	<0.0010	<0.0010	7.51	<0.00020	<0.00020	34.5	120	<0.00010	<0.0050	<0.0050	0.010	0.034	<0.015
	Maximum	340	<0.0020	<0.0050	8.31	<0.00040	<0.0010	75.6	260	<0.00050	0.0057	<0.025	0.010	0.258	0.15
	Geometric Mean	240.1	0.00057	0.00063	8.00	0.000113	0.000126	60.6	187	0.000063	0.00291	0.00315	0.010	0.084	0.0459
	Count <DL	0	28	28	0	28	28	0	0	28	27	28	0	0	5
	Standard Deviation	55.0	0.00020	0.00042	0.18	0.000039	0.000083	11.5	40	0.000042	0.00110	0.00208	0.000	0.080	0.0465
	1st Quartile	218.8	0.0005	0.0005	7.91	0.0001	0.0001	53.2	160	5.00E-05	0.0025	0.0025	0.01	0.044	0.0248
	Median	264.5	0.0005	0.0005	8.05	0.0001	0.0001	65	190	5.00E-05	0.0025	0.0025	0.01	0.068	0.0665
	3rd Quartile	287.2	0.0005	0.001	8.14	0.0001	0.0002	71.2	230	0.0001	0.0025	0.005	0.01	0.167	0.096
Seepage 2A (S2A)	Average	132.9	0.00078	0.00051	7.37	0.000100	0.000103	49.5	141	0.000051	0.00273	0.00257	0.0052	0.0387	0.1337
	Count	34	34	34	34	34	34	34	34	34	34	34	1	33	33
	Minimum	25.0	<0.0010	<0.0010	6.93	<0.00020	<0.00020	6.0	21	<0.00010	<0.0050	<0.0050	0.0052	<0.020	<0.015
	Maximum	204	0.0100	<0.0020	7.74	<0.00020	<0.00040	98.3	260	<0.00020	0.0104	<0.010	0.0052	0.218	0.23
	Geometric Mean	123.3	0.00055	0.00051	7.37	0.000100	0.000102	44.3	127	0.000051	0.00261	0.00255	0.0052	0.0246	0.0987
	Count <DL	0	33	34	0	34	34	0	0	34	33	34	0	15	2
	Standard Deviation	43.0	0.00163	0.00009	0.23	0.000000	0.000017	19.8	57	0.000009	0.00135	0.00043	0.0000	0.0431	0.0716
	1st Quartile	110.2	0.0005	0.0005	7.15	0.0001	0.0001	39.8	102	5.00E-05	0.0025	0.0025	0.0052	<0.020	0.094
	Median	133.5	0.0005	0.0005	7.4	0.0001	0.0001	46.2	135	5.00E-05	0.0025	0.0025	0.0052	0.023	0.15
	3rd Quartile	164.5	0.0005	0.0005	7.56	0.0001	0.0001	60.2	190	5.00E-05	0.0025	0.0025	0.0052	0.053	0.2
Seepage 2B (S2B)	Average	146.2	0.00054	0.00050	7.60	0.000100	0.000100	63.3	179	0.000050	0.00250	0.00250	0.00150	0.048	0.115
	Count	16	16	16	16	16	16	16	16	16	16	16	1	15	15
	Minimum	62.8	<0.0010	<0.0010	7.2	<0.00020	<0.00020	14.4	47	<0.00010	<0.0050	<0.0050	<0.0030	0.022	0.022
	Maximum	193	0.0011	<0.0010	7.96	<0.00020	<0.00020	93.2	260	<0.00010	<0.0050	<0.0050	<0.0030	0.110	0.20
	Geometric Mean	140.0	0.00053	0.00050	7.60	0.000100	0.000100	56.4	162	0.000050	0.00250	0.00250	0.00150	0.041	0.091
	Count <DL	0	15	16	0	16	16	0	0	16	16	16	1	0	0
	Standard Deviation	38.4	0.00015	0.00000	0.25	0.000000	0.000000	24.9	68	0.000000	0.00000	0.00000	0.00000	0.031	0.064
	1st Quartile	125.8	0.0005	0.0005	7.42	0.0001	0.0001	47.9	135	5.00E-05	0.0025	0.0025	<0.0030	0.028	0.036
	Median	157.5	0.0005	0.0005	7.58	0.0001	0.0001	69	195	5.00E-05	0.0025	0.0025	<0.0030	0.034	0.14
	3rd Quartile	170	0.0005	0.0005	7.82	0.0001	0.0001	80.8	232	5.00E-05	0.0025	0.0025	<0.0030	0.064	0.16
Seep 2 Upstream (S2US)	Average	174.8	0.00050	0.00050	7.44	0.000100	0.000100	82.7	212	0.00025	0.00470	0.00250		0.0100	0.22
	Count	4	4	4	4	4	4	4	4	4	4	4		4	4
	Minimum	115	<0.0010	<0.0010	7.27	<0.00020	<0.00020	44.6	150	0.00014	<0.0050	<0.0050		<0.020	0.16
	Maximum	205	<0.0010	<0.0010	7.57	<0.00020	<0.00020	103	260	0.00030	0.0080	<0.0050		<0.020	0.26
	Geometric Mean	170.3	0.00050	0.00050	7.44	0.000100	0.000100	78.7	208	0.00024	0.00413	0.00250		0.0100	0.22
	Count <DL	0	4	4	0	4	4	0	0	0	2	4		4	0
	Standard Deviation	42.2	0.00000	0.00000	0.13	0.000000	0.000000	26.4	48	0.00007	0.00269	0.00000		0.0000	0.05
	1st Quartile	160	0.0005	0.0005	7.38	0.0001	0.0001	75.4	187	0.00023	0.0025	0.0025		0.01	0.2
	Median	189.5	0.0005	0.0005	7.47	0.0001	0.0001	91.6	220	0.00027	0.00415	0.0025		0.01	0.23
	3rd Quartile	204.2	0.0005	0.0005	7.53	0.0001	0.0001	99	245	0.00029	0.00635	0.0025		0.01	0.25

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.000116	0.000126	0.0188	0.0164	20.2	0.0250	0.0000050	0.00055	0.017	0.0119	0.00122	0.00054	18.6
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	<0.00010	<0.00010	0.0135	0.0100	17	<0.050	<0.000010	0.00046	0.011	0.0061	<0.0010	<0.0010	15.0
	Maximum	0.00018	0.00024	0.0374	0.0404	22	<0.050	<0.000010	0.00066	0.025	0.0237	0.0022	0.0011	22.1
	Geometric Mean	0.000108	0.000115	0.0181	0.0153	20.1	0.0250	0.0000050	0.00055	0.016	0.0109	0.00107	0.00053	18.5
	Count <DL	3	3	0	0	0	16	16	0	0	0	5	15	0
	Standard Deviation	0.000037	0.000050	0.0062	0.0076	2.0	0.0000	0.0000000	0.00006	0.005	0.0051	0.00057	0.00015	1.8
	1st Quartile	0.000108	0.000108	0.0154	0.0128	18	0.025	5.00E-06	0.00051	0.012	0.0078	0.0005	0.0005	18.1
	Median	0.000125	0.00013	0.0173	0.0144	21	0.025	5.00E-06	0.00052	0.016	0.0112	0.0012	0.0005	18.6
	3rd Quartile	0.000132	0.000142	0.0185	0.0159	22	0.025	5.00E-06	0.00059	0.021	0.0162	0.00163	0.0005	19.6
Mid Quinsam Lake Outlet WB E0900504	Average	0.00016	0.00016	0.0125	0.0104	31.6	0.0250	0.0000057	0.00049	0.032	0.0197	0.0076	0.0026	29.0
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	0.00012	0.00012	0.0062	0.0039	28	<0.050	<0.000010	0.00037	0.023	0.0150	0.0027	0.0014	24.0
	Maximum	0.00021	0.00021	0.0193	0.0178	36	<0.050	0.000016	0.00085	0.043	0.0265	0.0145	0.0040	38.0
	Geometric Mean	0.00016	0.00016	0.0119	0.0095	31.6	0.0250	0.0000054	0.00048	0.031	0.0194	0.0065	0.0025	28.8
	Count <DL	0	0	0	0	0	16	15	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00003	0.0038	0.0040	2.2	0.0000	0.0000028	0.00011	0.007	0.0040	0.0040	0.0008	3.9
	1st Quartile	0.00014	0.00014	0.0088	0.006	30	0.025	5.00E-06	0.00043	0.026	0.0165	0.0033	0.0021	26
	Median	0.00017	0.00017	0.0133	0.0116	32	0.025	5.00E-06	0.00046	0.032	0.0184	0.0084	0.0025	29.1
	3rd Quartile	0.00018	0.00018	0.0149	0.0128	33	0.025	5.00E-06	0.00049	0.036	0.0241	0.0102	0.0028	31
Quinsam River Downstream 1 QRDS1 E286930	Average	0.00051	0.00048	0.0149	0.0092	33.9	0.0250	0.0000050	0.00049	0.040	0.0204	0.0057	0.0014	29.9
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	0.00028	0.00028	0.0067	0.0038	30	<0.050	<0.000010	0.00038	0.025	0.0125	0.0026	0.0011	24.4
	Maximum	0.00084	0.00073	0.0223	0.0181	38	<0.050	<0.000010	0.00088	0.059	0.0265	0.0113	0.0019	36.2
	Geometric Mean	0.00049	0.00046	0.0142	0.0085	33.8	0.0250	0.0000050	0.00048	0.039	0.0200	0.0051	0.0014	29.7
	Count <DL	0	0	0	0	0	16	16	0	0	0	0	0	0
	Standard Deviation	0.00017	0.00015	0.0042	0.0036	2.5	0.0000	0.0000000	0.00013	0.008	0.0037	0.0028	0.0003	3.8
	1st Quartile	0.00038	0.00038	0.0128	0.0065	32	0.025	5.00E-06	0.00042	0.036	0.0183	0.0037	0.0012	26.9
	Median	0.00048	0.00044	0.0153	0.0099	34	0.025	5.00E-06	0.00046	0.04	0.0207	0.0048	0.0014	29.6
	3rd Quartile	0.00064	0.00063	0.0175	0.011	36	0.025	5.00E-06	0.0005	0.043	0.0226	0.0079	0.0017	32.4
7 South Quinsam River 7SQR E292113	Average	0.00056	0.00056	0.0244	0.0169	33.0	0.0250	0.0000060	0.00053	0.087	0.0556	0.0059	0.0051	28.8
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	0.00035	0.00036	0.0103	0.0065	23	<0.050	<0.000010	0.00041	0.052	0.0350	0.0033	0.0024	25.3
	Maximum	0.00086	0.00083	0.0585	0.0461	38	<0.050	0.000021	0.00082	0.117	0.0837	0.0088	0.0072	33.8
	Geometric Mean	0.00054	0.00054	0.0219	0.0143	32.8	0.0250	0.0000055	0.00052	0.085	0.0542	0.0057	0.0049	28.7
	Count <DL	0	0	0	0	0	16	15	0	0	0	0	0	0
	Standard Deviation	0.00017	0.00017	0.0129	0.0114	3.9	0.0000	0.0000040	0.00011	0.020	0.0127	0.0016	0.0015	2.8
	1st Quartile	0.00044	0.00044	0.0161	0.0099	31	0.025	5.00E-06	0.00046	0.074	0.048	0.0049	0.0038	26.5
	Median	0.00052	0.0005	0.0187	0.014	34	0.025	5.00E-06	0.0005	0.084	0.0556	0.0055	0.0052	28.5
	3rd Quartile	0.00066	0.00072	0.0298	0.0192	36	0.025	5.00E-06	0.00055	0.106	0.0614	0.0073	0.0064	30.7
Iron River & Quinsam River IRQR E299256	Average	0.00070	0.00068	0.0336	0.0227	31.9	0.0250	0.0000059	0.00059	0.088	0.0523	0.0057	0.0047	28.5
	Count	16	16	16	16	16	16	16	16	16	16	16	16	16
	Minimum	0.00040	0.00042	0.0132	0.0087	25	<0.050	<0.000010	0.00041	0.033	0.0304	0.0028	0.0020	22.7
	Maximum	0.00089	0.00086	0.0885	0.0677	39	<0.050	0.000019	0.00103	0.156	0.0890	0.0106	0.0090	35.7
	Geometric Mean	0.00069	0.00067	0.0276	0.0177	31.6	0.0250	0.0000054	0.00058	0.082	0.0497	0.0051	0.0041	28.4
	Count <DL	0	0	0	0	0	16	15	0	0	0	0	0	0
	Standard Deviation	0.00015	0.00012	0.0236	0.0176	4.9	0.0000	0.0000035	0.00015	0.032	0.0174	0.0028	0.0025	3.1
	1st Quartile	0.0006	0.00062	0.0173	0.0092	28	0.025	5.00E-06	0.00049	0.064	0.0379	0.0037	0.0026	27
	Median	0.00067	0.00066	0.0217	0.0146	30.5	0.025	5.00E-06	0.00059	0.085	0.0501	0.0044	0.004	28
	3rd Quartile	0.00086	0.00078	0.043	0.0299	36.2	0.025	5.00E-06	0.00062	0.112	0.0663	0.0082	0.0072	29.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.706	0.00060	0.00050	7.15	0.000100	0.000100	1.50	1.09	0.000050	0.00250	0.00250		0.0100	0.0075
	Count	16	16	16	16	16	16	16	16	16	16	16		1	1
	Minimum	0.629	<0.0010	<0.0010	6.18	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	0.946	0.0021	<0.0010	8.04	<0.00020	<0.00020	<3.0	1.6	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	0.702	0.00055	0.00050	7.13	0.000100	0.000100	1.50	1.01	0.000050	0.00250	0.00250		0.0100	0.0075
	Count <DL	0	15	16	0	16	16	16	4	16	16	16		1	1
	Standard Deviation	0.090	0.00040	0.00000	0.61	0.000000	0.000000	0.00	0.38	0.000000	0.00000	0.00000		0.0000	0.0000
	1st Quartile	0.662	0.0005	0.0005	6.68	0.0001	0.0001	1.5	0.95	5.00E-05	0.0025	0.0025		<0.020	<0.015
	Median	0.674	0.0005	0.0005	7.2	0.0001	0.0001	1.5	1.2	5.00E-05	0.0025	0.0025		<0.020	<0.015
	3rd Quartile	0.701	0.0005	0.0005	7.63	0.0001	0.0001	1.5	1.32	5.00E-05	0.0025	0.0025		<0.020	<0.015
Mid Quinsam Lake Outlet WB E0900504	Average	7.86	0.00050	0.00050	7.42	0.000100	0.000100	5.58	15.7	0.000050	0.00250	0.00250		0.0100	0.0075
	Count	16	16	16	16	16	16	16	16	16	16	16		1	1
	Minimum	5.46	<0.0010	<0.0010	6.59	<0.00020	<0.00020	<3.0	7.9	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	11.6	<0.0010	<0.0010	8.13	<0.00020	<0.00020	11.4	27	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	7.63	0.00050	0.00050	7.40	0.000100	0.000100	4.80	14.3	0.000050	0.00250	0.00250		0.0100	0.0075
	Count <DL	0	16	16	0	16	16	2	0	16	16	16		1	1
	Standard Deviation	2.00	0.00000	0.00000	0.53	0.000000	0.000000	2.88	7.0	0.000000	0.00000	0.00000		0.0000	0.0000
	1st Quartile	6.12	0.0005	0.0005	7.01	0.0001	0.0001	3.52	9.5	5.00E-05	0.0025	0.0025		<0.020	<0.015
	Median	7.28	0.0005	0.0005	7.52	0.0001	0.0001	5.15	12	5.00E-05	0.0025	0.0025		<0.020	<0.015
	3rd Quartile	9.61	0.0005	0.0005	7.86	0.0001	0.0001	7.32	22.5	5.00E-05	0.0025	0.0025		<0.020	<0.015
Quinsam River Downstream 1 QRDS1 E286930	Average	9.09	0.00050	0.00050	7.44	0.000100	0.000100	6.0	16.8	0.000050	0.00250	0.00250		0.0100	0.0075
	Count	16	16	16	16	16	16	16	16	16	16	16		1	1
	Minimum	6.34	<0.0010	<0.0010	6.59	<0.00020	<0.00020	3.2	8.6	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	12.6	<0.0010	<0.0010	8.29	<0.00020	<0.00020	9.6	27	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	8.88	0.00050	0.00050	7.42	0.000100	0.000100	5.7	15.6	0.000050	0.00250	0.00250		0.0100	0.0075
	Count <DL	0	16	16	0	16	16	0	0	16	16	16		1	1
	Standard Deviation	1.98	0.00000	0.00000	0.58	0.000000	0.000000	2.1	6.5	0.000000	0.00000	0.00000		0.0000	0.0000
	1st Quartile	7.06	0.0005	0.0005	6.93	0.0001	0.0001	4.3	11.8	5.00E-05	0.0025	0.0025		<0.020	<0.015
	Median	9.23	0.0005	0.0005	7.48	0.0001	0.0001	4.9	14	5.00E-05	0.0025	0.0025		<0.020	<0.015
	3rd Quartile	10.6	0.0005	0.0005	7.93	0.0001	0.0001	7.8	23.2	5.00E-05	0.0025	0.0025		<0.020	<0.015
7 South Quinsam River 75QR E292113	Average	8.57	0.00129	0.00050	7.04	0.000100	0.000100	5.3	15.1	0.000056	0.00250	0.00250		0.025	0.0075
	Count	16	16	16	16	16	16	16	16	16	16	16		1	1
	Minimum	3.17	<0.0010	<0.0010	6.02	<0.00020	<0.00020	3.1	8.9	<0.00010	<0.0050	<0.0050		0.025	<0.015
	Maximum	11.7	0.0125	<0.0010	7.96	<0.00020	<0.00020	8.8	24	0.00014	<0.0050	<0.0050		0.025	<0.015
	Geometric Mean	8.21	0.00064	0.00050	7.02	0.000100	0.000100	5.0	14.3	0.000053	0.00250	0.00250		0.025	0.0075
	Count <DL	0	14	16	0	16	16	0	0	15	16	16		0	1
	Standard Deviation	2.25	0.00299	0.00000	0.56	0.000000	0.000000	1.8	5.2	0.000022	0.00000	0.00000		0.000	0.0000
	1st Quartile	6.84	0.0005	0.0005	6.58	0.0001	0.0001	3.9	11	5.00E-05	0.0025	0.0025		0.025	<0.015
	Median	8.82	0.0005	0.0005	7.1	0.0001	0.0001	4.6	13	5.00E-05	0.0025	0.0025		0.025	<0.015
	3rd Quartile	10.2	0.0005	0.0005	7.45	0.0001	0.0001	6.5	20	5.00E-05	0.0025	0.0025		0.025	<0.015
Iron River & Quinsam River IRQR E299256	Average	6.66	0.00150	0.00050	7.16	0.000100	0.000100	4.16	12.2	0.000083	0.00250	0.00250		0.0100	0.0075
	Count	16	16	16	16	16	16	16	16	16	16	16		1	1
	Minimum	2.19	<0.0010	<0.0010	6.42	<0.00020	<0.00020	<3.0	4.9	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	10.5	0.0165	<0.0010	8.11	<0.00020	<0.00020	7.3	23	0.00014	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	6.22	0.00062	0.00050	7.14	0.000100	0.000100	3.85	11.5	0.000076	0.00250	0.00250		0.0100	0.0075
	Count <DL	0	15	16	0	16	16	2	0	8	16	16		1	1
	Standard Deviation	2.33	0.00400	0.00000	0.56	0.000000	0.000000	1.52	4.3	0.000036	0.00000	0.00000		0.0000	0.0000
	1st Quartile	5.19	0.0005	0.0005	6.62	0.0001	0.0001	3.48	9.8	5.00E-05	0.0025	0.0025		<0.020	<0.015
	Median	6.06	0.0005	0.0005	7.18	0.0001	0.0001	4.05	11.5	7.50E-05	0.0025	0.0025		<0.020	<0.015
	3rd Quartile	8.8	0.0005	0.0005	7.72	0.0001	0.0001	4.58	13	0.00011	0.0025	0.0025		<0.020	<0.015

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake Outlet NNO E217017	Average	0.00032	0.00034	0.0257	0.0216	15.8	0.0250	0.0000050	0.00046	0.070	0.0432	0.0235	0.0218	15.8
	Count	14	14	14	14	14	14	14	14	14	14	14	14	14
	Minimum	0.00021	0.00023	0.0094	0.0047	10	<0.050	<0.000010	0.00034	0.030	0.0210	0.0028	0.0015	10.2
	Maximum	0.00064	0.00063	0.0502	0.0469	34	<0.050	<0.000010	0.00072	0.177	0.0884	0.117	0.101	30.5
	Geometric Mean	0.00030	0.00032	0.0224	0.0175	14.5	0.0250	0.0000050	0.00045	0.064	0.0403	0.0079	0.0064	15.0
	Count <DL	0	0	0	0	0	14	14	0	0	0	0	0	0
	Standard Deviation	0.00013	0.00013	0.0130	0.0128	7.7	0.0000	0.0000000	0.00011	0.037	0.0174	0.0398	0.0373	5.7
	1st Quartile	0.00024	0.00025	0.0129	0.0095	11.2	0.025	5.00E-06	0.00039	0.05	0.034	0.0036	0.0027	12.6
	Median	0.00026	0.00027	0.0283	0.0247	12	0.025	5.00E-06	0.00043	0.061	0.0398	0.0044	0.0035	13.6
	3rd Quartile	0.00031	0.00037	0.0319	0.0278	14.8	0.025	5.00E-06	0.00047	0.08	0.0496	0.0069	0.0065	15.1
Long Lake Outlet LLO E219412	Average	0.00039	0.00039	0.0196	0.0140	26.4	0.0328	0.0000050	0.00035	0.045	0.02750	0.0386	0.0336	59.9
	Count	14	14	14	14	14	14	14	14	14	14	14	14	14
	Minimum	0.00031	0.00030	0.0058	0.0034	18	<0.050	<0.000010	0.00028	0.010	<0.0050	0.0043	0.0014	35.2
	Maximum	0.00054	0.00051	0.0393	0.0340	38	0.062	<0.000010	0.00051	0.097	0.0495	0.431	0.372	90.8
	Geometric Mean	0.00038	0.00038	0.0162	0.0101	25.8	0.0303	0.0000050	0.00035	0.037	0.02001	0.0093	0.0060	57.7
	Count <DL	0	0	0	0	0	11	14	0	0	1	0	0	0
	Standard Deviation	0.00007	0.00007	0.0115	0.0105	6.0	0.0155	0.0000000	0.00006	0.027	0.01723	0.1132	0.0981	17.4
	1st Quartile	0.00035	0.00034	0.0083	0.0041	22.2	0.025	5.00E-06	0.00032	0.019	0.00882	0.0049	0.003	48.6
	Median	0.00036	0.00036	0.0202	0.0136	25	0.025	5.00E-06	0.00035	0.053	0.03665	0.0064	0.0045	57.4
	3rd Quartile	0.00043	0.00043	0.0266	0.0207	31	0.025	5.00E-06	0.00037	0.061	0.04208	0.0087	0.0062	67.8
Iron River Site 6 IR6 E297231	Average	0.00484	0.00535	0.0459	0.0419	42.6	0.0383	0.0000094	0.00075	0.0344	0.02080	0.00179	0.00120	45.4
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	0.00046	0.00050	0.0138	0.0122	17	<0.050	<0.000010	0.00038	<0.010	<0.0050	<0.0010	<0.0010	20.1
	Maximum	0.0140	0.0145	0.125	0.115	75	0.072	0.000016	0.00118	0.108	0.0630	0.0035	0.0031	82.4
	Geometric Mean	0.00210	0.00227	0.0340	0.0315	36.3	0.0347	0.0000086	0.00071	0.0196	0.01222	0.00147	0.00099	39.8
	Count <DL	0	0	0	0	0	5	3	0	3	2	1	3	0
	Standard Deviation	0.00568	0.00627	0.0393	0.0360	25.0	0.0191	0.0000040	0.00026	0.0350	0.02053	0.00115	0.00087	24.2
	1st Quartile	0.0007	0.00078	0.015	0.0172	23.2	0.025	5.00E-06	0.00058	0.005	0.00468	0.001	0.0005	25.2
	Median	0.00118	0.0012	0.0358	0.0278	33	0.025	1.05E-05	0.0008	0.029	0.01615	0.0012	0.00105	38
	3rd Quartile	0.00996	0.0115	0.0541	0.0518	69.5	0.0532	1.12E-05	0.00087	0.046	0.02832	0.00292	0.00138	66.7
Iron River Site 8 IR8 E297232	Average	0.00818	0.00879	0.0385	0.0325	47.0	0.0464	0.0000084	0.00075	0.0338	0.02095	0.00203	0.00130	48.1
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00064	0.00069	0.0065	0.0060	17	<0.050	<0.000010	0.00035	<0.010	<0.0050	<0.0010	<0.0010	20.9
	Maximum	0.0267	0.0275	0.115	0.0967	83	0.116	0.000014	0.00110	0.104	0.0615	0.0042	0.0027	87.5
	Geometric Mean	0.00288	0.00308	0.0267	0.0220	40.8	0.0373	0.0000077	0.00072	0.0248	0.01551	0.00165	0.00106	42.7
	Count <DL	0	0	0	0	0	7	5	0	1	1	2	4	0
	Standard Deviation	0.01100	0.01182	0.0357	0.0307	24.6	0.0355	0.0000037	0.00020	0.0289	0.01678	0.00121	0.00081	24.1
	1st Quartile	0.00073	0.00078	0.0137	0.0128	26	0.025	5.00E-06	0.00064	0.015	0.01502	0.0013	0.0005	28.3
	Median	0.00215	0.00226	0.0256	0.0195	46	0.025	8.00E-06	0.00075	0.0225	0.016	0.0019	0.0013	44.9
	3rd Quartile	0.01668	0.01873	0.046	0.0392	68.8	0.0662	1.10E-05	0.00086	0.0465	0.02338	0.00292	0.00175	65.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake Outlet NNO E217017	Average	1.356	0.00054	0.00050	6.93	0.000100	0.000371	1.50	2.04	0.000050	0.00250	0.00250		0.028	0.0075
	Count	14	14	14	14	14	14	14	14	14	14	14		1	1
	Minimum	0.981	<0.0010	<0.0010	6.23	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050		0.028	<0.015
	Maximum	2.34	0.0010	<0.0010	7.64	<0.00020	0.00389	<3.0	2.9	<0.00010	<0.0050	<0.0050		0.028	<0.015
	Geometric Mean	1.318	0.00053	0.00050	6.91	0.000100	0.000130	1.50	1.91	0.000050	0.00250	0.00250		0.028	0.0075
	Count <DL	0	13	14	0	14	13	14	1	14	14	14		0	1
	Standard Deviation	0.370	0.00013	0.00000	0.52	0.000000	0.001013	0.00	0.60	0.000000	0.00000	0.00000		0.000	0.0000
	1st Quartile	1.132	0.0005	0.0005	6.41	0.0001	0.0001	1.5	1.82	5.00E-05	0.0025	0.0025		0.028	<0.015
	Median	1.26	0.0005	0.0005	6.98	0.0001	0.0001	1.5	2.1	5.00E-05	0.0025	0.0025		0.028	<0.015
	3rd Quartile	1.288	0.0005	0.0005	7.36	0.0001	0.0001	1.5	2.38	5.00E-05	0.0025	0.0025		0.028	<0.015
Long Lake Outlet LLO E219412	Average	5.81	0.00072	0.00050	7.07	0.000100	0.000100	17.0	48.4	0.000050	0.00250	0.00250		0.0100	0.0075
	Count	14	14	14	14	14	14	14	14	14	14	14		1	1
	Minimum	3.43	<0.0010	<0.0010	6.02	<0.00020	<0.00020	8.3	28	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Maximum	9.38	0.0036	<0.0010	7.87	<0.00020	<0.00020	29.4	78	<0.00010	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	5.57	0.00058	0.00050	7.05	0.000100	0.000100	15.9	46.0	0.000050	0.00250	0.00250		0.0100	0.0075
	Count <DL	0	13	14	0	14	14	0	0	14	14	14		1	1
	Standard Deviation	1.82	0.00083	0.00000	0.56	0.000000	0.000000	6.7	16.7	0.000000	0.00000	0.00000		0.0000	0.0000
	1st Quartile	4.64	0.0005	0.0005	6.68	0.0001	0.0001	12.2	37.5	5.00E-05	0.0025	0.0025		<0.020	<0.015
	Median	5.14	0.0005	0.0005	6.92	0.0001	0.0001	15.2	43	5.00E-05	0.0025	0.0025		<0.020	<0.015
	3rd Quartile	6.01	0.0005	0.0005	7.6	0.0001	0.0001	18.8	50	5.00E-05	0.0025	0.0025		<0.020	<0.015
Iron River Site 6 IR6 E297231	Average	2.23	0.00050	0.00050	7.33	0.000100	0.000100	2.80	7.8	0.00022	0.00250	0.00250			
	Count	8	8	8	8	8	8	8	8	8	8	8			
	Minimum	1.01	<0.0010	<0.0010	6.72	<0.00020	<0.00020	<3.0	1.3	0.00015	<0.0050	<0.0050			
	Maximum	4.17	<0.0010	<0.0010	8.15	<0.00020	<0.00020	4.6	13	0.00037	<0.0050	<0.0050			
	Geometric Mean	1.91	0.00050	0.00050	7.31	0.000100	0.000100	2.47	6.2	0.00021	0.00250	0.00250			
	Count <DL	0	8	8	0	8	8	4	0	0	8	8			
	Standard Deviation	1.34	0.00000	0.00000	0.61	0.000000	0.000000	1.44	4.6	0.00008	0.00000	0.00000			
	1st Quartile	1.18	0.0005	0.0005	6.8	0.0001	0.0001	1.5	4.6	0.00016	0.0025	0.0025			
	Median	1.59	0.0005	0.0005	7.11	0.0001	0.0001	2.55	8	0.00019	0.0025	0.0025			
	3rd Quartile	3.57	0.0005	0.0005	7.98	0.0001	0.0001	3.85	11.5	0.00026	0.0025	0.0025			
Iron River Site 8 IR8 E297232	Average	3.40	0.00050	0.00050	7.16	0.000100	0.000100	2.26	7.2	0.000175	0.00250	0.00250			
	Count	10	10	10	10	10	10	10	10	10	10	10			
	Minimum	1.05	<0.0010	<0.0010	6.56	<0.00020	<0.00020	<3.0	1.6	<0.00010	<0.0050	<0.0050			
	Maximum	8.20	<0.0010	<0.0010	8.03	<0.00020	<0.00020	4.4	13	0.00040	<0.0050	<0.0050			
	Geometric Mean	2.53	0.00050	0.00050	7.14	0.000100	0.000100	2.01	5.9	0.000146	0.00250	0.00250			
	Count <DL	0	10	10	0	10	10	7	0	2	10	10			
	Standard Deviation	2.85	0.00000	0.00000	0.61	0.000000	0.000000	1.26	4.2	0.000106	0.00000	0.00000			
	1st Quartile	1.42	0.0005	0.0005	6.74	0.0001	0.0001	1.5	4.8	0.000132	0.0025	0.0025			
	Median	2.11	0.0005	0.0005	6.92	0.0001	0.0001	1.5	5.5	0.000145	0.0025	0.0025			
	3rd Quartile	5.45	0.0005	0.0005	7.77	0.0001	0.0001	2.85	10.7	0.000213	0.0025	0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Middle Quinsam Lake 1M	Average	0.00015	0.00015	0.0112	0.0097	31.7	0.0250	0.0000050	0.00048	0.030	0.0176	0.0070	0.00180	25.9
MQL1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
E206618	Minimum	0.00011	0.00011	0.0065	0.0043	27	<0.050	<0.000010	0.00040	0.020	0.0117	0.0025	<0.0010	21.3
	Maximum	0.00019	0.00019	0.0146	0.0138	34	<0.050	<0.000010	0.00061	0.037	0.0212	0.0137	0.0047	31.6
	Geometric Mean	0.00015	0.00014	0.0108	0.0090	31.7	0.0250	0.0000050	0.00047	0.029	0.0173	0.0062	0.00145	25.7
	Count <DL	0	0	0	0	0	15	15	0	0	0	0	3	0
	Standard Deviation	0.00003	0.00003	0.0029	0.0035	1.9	0.0000	0.0000000	0.00005	0.006	0.0029	0.0032	0.00120	3.0
	1st Quartile	0.00013	0.00012	0.0082	0.0057	30.5	0.025	5.00E-06	0.00044	0.025	0.0166	0.0047	0.00105	24.4
	Median	0.00015	0.00015	0.0119	0.012	32	<0.050	<0.000010	0.00046	0.03	0.0186	0.007	0.0015	24.8
	3rd Quartile	0.00016	0.00016	0.0136	0.0123	33	0.025	5.00E-06	0.0005	0.034	0.0196	0.009	0.00275	27.6
Middle Quinsam Lake 4M	Average	0.00015	0.00015	0.0113	0.0097	32.0	0.0250	0.0000050	0.00048	0.030	0.0163	0.0069	0.00127	25.9
MQL4	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
E206618	Minimum	0.00010	0.00010	0.0066	0.0042	29	<0.050	<0.000010	0.00041	0.020	0.0116	0.0026	<0.0010	22.9
	Maximum	0.00019	0.00019	0.0145	0.0159	36	<0.050	<0.000010	0.00085	0.038	0.0212	0.0132	0.0031	31.6
	Geometric Mean	0.00015	0.00014	0.0110	0.0089	32.0	0.0250	0.0000050	0.00047	0.029	0.0160	0.0060	0.00106	25.8
	Count <DL	0	0	0	0	0	15	15	0	0	0	0	5	0
	Standard Deviation	0.00003	0.00003	0.0029	0.0037	1.9	0.0000	0.0000000	0.00011	0.006	0.0037	0.0034	0.00077	2.6
	1st Quartile	0.00013	0.00012	0.0082	0.006	31	0.025	5.00E-06	0.00042	0.024	0.0125	0.003	0.0005	24.3
	Median	0.00015	0.00015	0.0125	0.0104	31	<0.050	<0.000010	0.00045	0.031	0.0164	0.0075	0.0013	25.2
	3rd Quartile	0.00017	0.00017	0.0136	0.0127	33	0.025	5.00E-06	0.00048	0.035	0.0194	0.0091	0.0015	26.8
Middle Quinsam Lake 9M	Average	0.000136	0.000128	0.0099	0.0091	30.30	0.0250	0.0000050	0.00048	0.025	0.01164	0.0063	0.00113	26.8
MQL9	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
E206618	Minimum	<0.00010	<0.00010	0.0069	0.0049	<1.0	<0.050	<0.000010	0.00040	0.018	<0.0050	0.0021	<0.0010	23.2
	Maximum	0.00018	0.00017	0.0156	0.0282	34	<0.050	<0.000010	0.00097	0.038	0.0192	0.0136	0.0030	30.9
	Geometric Mean	0.000132	0.000124	0.0096	0.0082	24.52	0.0250	0.0000050	0.00047	0.025	0.01047	0.0054	0.00093	26.7
	Count <DL	1	1	0	0	1	15	15	0	0	1	0	7	0
	Standard Deviation	0.000028	0.000029	0.0026	0.0056	8.40	0.0000	0.0000000	0.00014	0.006	0.00481	0.0034	0.00076	2.3
	1st Quartile	0.00013	0.000115	0.0074	0.0062	31.5	0.025	5.00E-06	0.00042	0.022	0.00775	0.0028	0.0005	25.1
	Median	0.00014	0.00013	0.01	0.0085	33	<0.050	<0.000010	0.00045	0.022	0.0121	0.007	0.0011	26.5
	3rd Quartile	0.00015	0.00014	0.0116	0.0094	33.5	0.025	5.00E-06	0.00048	0.03	0.01465	0.0082	0.00135	27.9
Middle Quinsam Lake 1MB	Average	0.000120	0.000118	0.0091	0.00689	33.1	0.0250	0.0000050	0.00049	0.035	0.0138	0.0618	0.05707	27.9
MQLB	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
E206618	Minimum	<0.00010	<0.00010	0.0049	<0.0030	28	<0.050	<0.000010	0.00038	0.013	0.0075	0.0024	<0.0010	24.1
	Maximum	0.00018	0.00015	0.0149	0.0126	40	<0.050	<0.000010	0.00089	0.107	0.0292	0.442	0.425	34.7
	Geometric Mean	0.000112	0.000113	0.0087	0.00587	33.0	0.0250	0.0000050	0.00048	0.028	0.0128	0.0090	0.00305	27.8
	Count <DL	3	2	0	2	0	15	15	0	0	0	0	3	0
	Standard Deviation	0.000040	0.000031	0.0030	0.00336	2.9	0.0000	0.0000000	0.00012	0.028	0.0064	0.1474	0.14597	2.9
	1st Quartile	0.000115	0.000115	0.0071	0.0046	32	0.025	5.00E-06	0.00044	0.019	0.0099	0.0028	0.0012	25.8
	Median	0.00013	0.00012	0.0083	0.008	33	<0.050	<0.000010	0.00047	0.024	0.0119	0.0063	0.0015	27.5
	3rd Quartile	0.000145	0.00014	0.0113	0.00945	33.5	0.025	5.00E-06	0.0005	0.035	0.0144	0.0102	0.0029	29.7

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Middle Quinsam Lake 1M	Average	7.82	0.00050	0.00050	7.71	0.000100	0.000100	3.69	12.1	0.000050	0.00250	0.00250	0.0021	0.0100	
MQL1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	5.52	<0.0010	<0.0010	7.15	<0.00020	<0.00020	<3.0	7.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.7	<0.0010	<0.0010	8.41	<0.00020	<0.00020	7.0	21	<0.00010	<0.0050	<0.0050	0.0065	<0.020	
	Geometric Mean	7.57	0.00050	0.00050	7.70	0.000100	0.000100	3.06	11.2	0.000050	0.00250	0.00250	0.0019	0.0100	
	Count <DL	0	15	15	0	15	15	6	0	15	15	15	12	15	
	Standard Deviation	2.11	0.00000	0.00000	0.50	0.000000	0.000000	2.20	5.2	0.000000	0.00000	0.00000	0.0015	0.0000	
	1st Quartile	6.1	0.0005	0.0005	7.35	0.0001	0.0001	1.5	7.8	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	6.79	<0.0010	<0.0010	7.48	<0.00020	<0.00020	3.3	9.5	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	10	0.0005	0.0005	8.34	0.0001	0.0001	6	17.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 4M	Average	7.74	0.00053	0.00050	7.72	0.000100	0.000100	3.53	12.1	0.000050	0.00250	0.00250	0.0016	0.0112	
MQL4	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	5.61	<0.0010	<0.0010	7.18	<0.00020	<0.00020	<3.0	7.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	10.9	0.0010	<0.0010	8.42	<0.00020	<0.00020	6.8	20	<0.00010	<0.0050	<0.0050	0.0034	0.028	
	Geometric Mean	7.50	0.00052	0.00050	7.71	0.000100	0.000100	2.97	11.2	0.000050	0.00250	0.00250	0.0016	0.0107	
	Count <DL	0	14	15	0	15	15	6	0	15	15	15	14	14	
	Standard Deviation	2.02	0.00013	0.00000	0.50	0.000000	0.000000	2.04	5.1	0.000000	0.00000	0.00000	0.0005	0.0046	
	1st Quartile	6.02	0.0005	0.0005	7.36	0.0001	0.0001	1.5	8	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	6.74	<0.0010	<0.0010	7.45	<0.00020	<0.00020	3.3	9.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	9.95	0.0005	0.0005	8.36	0.0001	0.0001	5.4	18	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 9M	Average	8.75	0.00050	0.00050	7.88	0.000100	0.000100	4.67	14.5	0.000054	0.00250	0.00250	0.002	0.0100	
MQL9	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	5.70	<0.0010	<0.0010	7.22	<0.00020	<0.00020	<3.0	7.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.0	<0.0010	<0.0010	9.13	<0.00020	<0.00020	6.8	20	0.00011	<0.0050	<0.0050	0.0053	<0.020	
	Geometric Mean	8.50	0.00050	0.00050	7.85	0.000100	0.000100	4.00	13.5	0.000053	0.00250	0.00250	0.00180	0.0100	
	Count <DL	0	15	15	0	15	15	4	0	14	15	15	12	15	
	Standard Deviation	2.03	0.00000	0.00000	0.75	0.000000	0.000000	2.15	5.0	0.000015	0.00000	0.00000	0.0011	0.0000	
	1st Quartile	6.47	0.0005	0.0005	7.37	0.0001	0.0001	2.3	8.3	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	9.78	<0.0010	<0.0010	7.44	<0.00020	<0.00020	5.6	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	10.1	0.0005	0.0005	8.57	0.0001	0.0001	6.25	18	5.00E-05	0.0025	0.0025	0.0015	0.01	
Middle Quinsam Lake 1MB	Average	9.22	0.00050	0.00050	7.43	0.000100	0.000100	5.07	15.4	0.000055	0.00250	0.00250	0.0022	0.0100	
MQLB	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	5.69	<0.0010	<0.0010	6.8	<0.00020	<0.00020	<3.0	7.4	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.3	<0.0010	<0.0010	8.06	<0.00020	<0.00020	7.0	20	0.00012	<0.0050	<0.0050	0.0050	<0.020	
	Geometric Mean	9.00	0.00050	0.00050	7.42	0.000100	0.000100	4.64	14.6	0.000053	0.00250	0.00250	0.002	0.0100	
	Count <DL	0	15	15	0	15	15	2	0	14	15	15	11	15	
	Standard Deviation	1.89	0.00000	0.00000	0.33	0.000000	0.000000	1.76	4.4	0.000018	0.00000	0.00000	0.0013	0.0000	
	1st Quartile	8.74	0.0005	0.0005	7.25	0.0001	0.0001	4.6	14	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	10.1	<0.0010	<0.0010	7.38	<0.00020	<0.00020	5.3	17	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	10.2	0.0005	0.0005	7.58	0.0001	0.0001	6.45	18.5	5.00E-05	0.0025	0.0025	0.0024	0.01	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake 1M	Average	0.00023	0.00025	0.0296	0.0273	11.6	0.0250	0.0000050	0.00046	0.061	0.0401	0.0042	0.0037	12.7
NNL1	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018	Minimum	0.00021	0.00023	0.0287	0.0251	11	<0.050	<0.000010	0.00042	0.051	0.0362	0.0034	0.0033	12.1
	Maximum	0.00026	0.00027	0.0303	0.0289	12	<0.050	<0.000010	0.00056	0.065	0.0445	0.0051	0.0041	13.2
	Geometric Mean	0.00023	0.00025	0.0296	0.0273	11.6	0.0250	0.0000050	0.00046	0.060	0.0400	0.0041	0.0037	12.7
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00002	0.0006	0.0019	0.5	0.0000	0.0000000	0.00006	0.006	0.0031	0.0007	0.0004	0.4
	1st Quartile	0.00023	0.00023	0.0294	0.0254	11	<0.050	<0.000010	0.00043	0.06	0.0382	0.0035	0.0034	12.5
	Median	0.00023	0.00025	0.0297	0.0284	12	<0.050	<0.000010	0.00045	0.063	0.0404	0.0043	0.0037	12.9
	3rd Quartile	0.00024	0.00025	0.0301	0.0288	12	<0.050	<0.000010	0.00045	0.064	0.0411	0.0047	0.0041	12.9
No Name Lake 4M	Average	0.00024	0.00024	0.0309	0.0261	11.4	0.0250	0.0000050	0.00042	0.061	0.0381	0.0043	0.0036	13.0
NNL4	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018	Minimum	0.00024	0.00023	0.0293	0.0248	11	<0.050	<0.000010	0.00038	0.053	0.0365	0.0035	0.0030	12.4
	Maximum	0.00024	0.00025	0.0320	0.0268	12	<0.050	<0.000010	0.00044	0.066	0.0400	0.0052	0.0041	13.9
	Geometric Mean	0.00024	0.00024	0.0308	0.0261	11.4	0.0250	0.0000050	0.00042	0.061	0.0381	0.0042	0.0036	13.0
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00000	0.00001	0.0011	0.0008	0.5	0.0000	0.0000000	0.00002	0.005	0.0015	0.0007	0.0005	0.6
	1st Quartile	0.00024	0.00023	0.0302	0.026	11	<0.050	<0.000010	0.00042	0.059	0.0367	0.0037	0.0032	12.5
	Median	0.00024	0.00023	0.031	0.0264	11	<0.050	<0.000010	0.00042	0.061	0.0383	0.0043	0.0036	12.9
	3rd Quartile	0.00024	0.00024	0.0318	0.0264	12	<0.050	<0.000010	0.00043	0.065	0.0391	0.0047	0.004	13.2
No Name Lake 9M	Average	0.00024	0.00024	0.0306	0.0264	11.6	0.0250	0.0000050	0.00053	0.065	0.0398	0.0045	0.0038	13.2
NNL9	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018	Minimum	0.00022	0.00023	0.0287	0.0257	11	<0.050	<0.000010	0.00037	0.058	0.0385	0.0037	0.0031	12.0
	Maximum	0.00026	0.00028	0.0325	0.0271	13	<0.050	<0.000010	0.00094	0.070	0.0424	0.0056	0.0045	13.8
	Geometric Mean	0.00024	0.00024	0.0305	0.0264	11.6	0.0250	0.0000050	0.00050	0.065	0.0398	0.0045	0.0038	13.2
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00001	0.00002	0.0016	0.0006	0.9	0.0000	0.0000000	0.00023	0.005	0.0016	0.0008	0.0006	0.7
	1st Quartile	0.00023	0.00023	0.0296	0.026	11	<0.050	<0.000010	0.00044	0.064	0.0386	0.0039	0.0033	13
	Median	0.00024	0.00023	0.03	0.0266	11	<0.050	<0.000010	0.00044	0.064	0.0391	0.0044	0.0037	13.5
	3rd Quartile	0.00024	0.00023	0.0321	0.0268	12	<0.050	<0.000010	0.00047	0.068	0.0403	0.0051	0.0044	13.7
No Name Lake Bottom	Average	0.00025	0.00024	0.0307	0.0261	11.0	0.0250	0.0000050	0.00041	0.070	0.0411	0.0049	0.0039	13.3
NNLB	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018	Minimum	0.00022	0.00022	0.0278	0.0246	10	<0.050	<0.000010	0.00035	0.060	0.0381	0.0039	0.0031	12.1
	Maximum	0.00027	0.00026	0.0328	0.0293	12	<0.050	<0.000010	0.00053	0.083	0.0447	0.0061	0.0049	14.2
	Geometric Mean	0.00025	0.00024	0.0307	0.0261	11.0	0.0250	0.0000050	0.00041	0.070	0.0410	0.0048	0.0038	13.3
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00002	0.0019	0.0018	0.7	0.0000	0.0000000	0.00007	0.008	0.0029	0.0011	0.0008	0.9
	1st Quartile	0.00024	0.00023	0.0304	0.0255	11	<0.050	<0.000010	0.00037	0.067	0.0391	0.0041	0.0032	12.8
	Median	0.00025	0.00024	0.0308	0.0255	11	<0.050	<0.000010	0.0004	0.069	0.0399	0.0043	0.0037	13.3
	3rd Quartile	0.00027	0.00025	0.0318	0.0257	11	<0.050	<0.000010	0.00041	0.073	0.0437	0.0059	0.0046	14.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake 1M NNL1	Average	1.14	0.00050	0.00050	7.05	0.000100	0.000100	1.50	2.2	0.000050	0.00250	0.00250	0.0026	0.0320	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.11	<0.0010	<0.0010	6.85	<0.00020	<0.00020	<3.0	1.9	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.19	<0.0010	<0.0010	7.30	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	0.0038	0.059	
	Geometric Mean	1.14	0.00050	0.00050	7.05	0.000100	0.000100	1.50	2.2	0.000050	0.00250	0.00250	0.0025	0.0277	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	2	1	
	Standard Deviation	0.03	0.00000	0.00000	0.18	0.000000	0.000000	0.00	0.3	0.000000	0.00000	0.00000	0.0011	0.0175	
	1st Quartile	1.12	<0.0010	<0.0010	6.94	<0.00020	<0.00020	<3.0	1.9	<0.00010	<0.0050	<0.0050	<0.0030	0.029	
	Median	1.13	<0.0010	<0.0010	7	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050	0.0031	0.03	
	3rd Quartile	1.14	<0.0010	<0.0010	7.15	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	0.0033	0.032	
No Name Lake 4M NNL4	Average	1.14	0.00050	0.00050	6.83	0.000100	0.000100	1.50	2.4	0.000050	0.00250	0.00250	0.0022	0.030	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.11	<0.0010	<0.0010	6.7	<0.00020	<0.00020	<3.0	1.9	<0.00010	<0.0050	<0.0050	<0.0030	0.025	
	Maximum	1.18	<0.0010	<0.0010	6.94	<0.00020	<0.00020	<3.0	2.7	<0.00010	<0.0050	<0.0050	0.0033	0.033	
	Geometric Mean	1.14	0.00050	0.00050	6.83	0.000100	0.000100	1.50	2.3	0.000050	0.00250	0.00250	0.002	0.030	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	3	0	
	Standard Deviation	0.03	0.00000	0.00000	0.10	0.000000	0.000000	0.00	0.3	0.000000	0.00000	0.00000	0.0009	0.004	
	1st Quartile	1.12	<0.0010	<0.0010	6.78	<0.00020	<0.00020	<3.0	2.1	<0.00010	<0.0050	<0.0050	<0.0030	0.028	
	Median	1.13	<0.0010	<0.0010	6.81	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	<0.0030	0.032	
	3rd Quartile	1.14	<0.0010	<0.0010	6.92	<0.00020	<0.00020	<3.0	2.6	<0.00010	<0.0050	<0.0050	0.0031	0.033	
No Name Lake 9M NNL9	Average	1.17	0.00050	0.00050	6.69	0.000100	0.000100	1.50	2.5	0.000050	0.00250	0.00250	0.0018	0.031	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.11	<0.0010	<0.0010	6.51	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	<0.0030	0.026	
	Maximum	1.32	<0.0010	<0.0010	6.80	<0.00020	<0.00020	<3.0	2.9	<0.00010	<0.0050	<0.0050	0.0032	0.036	
	Geometric Mean	1.17	0.00050	0.00050	6.69	0.000100	0.000100	1.50	2.5	0.000050	0.00250	0.00250	0.0018	0.031	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	4	0	
	Standard Deviation	0.09	0.00000	0.00000	0.11	0.000000	0.000000	0.00	0.2	0.000000	0.00000	0.00000	0.0008	0.004	
	1st Quartile	1.13	<0.0010	<0.0010	6.68	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	<0.0030	0.028	
	Median	1.13	<0.0010	<0.0010	6.7	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	<0.0030	0.033	
	3rd Quartile	1.15	<0.0010	<0.0010	6.78	<0.00020	<0.00020	<3.0	2.6	<0.00010	<0.0050	<0.0050	<0.0030	0.034	
No Name Lake Bottom NNLB	Average	1.13	0.00050	0.00050	6.54	0.000100	0.000100	1.50	2.9	0.000050	0.00250	0.00250	0.0021	0.031	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.11	<0.0010	<0.0010	5.94	<0.00020	<0.00020	<3.0	2.3	<0.00010	<0.0050	<0.0050	<0.0030	0.026	
	Maximum	1.17	<0.0010	<0.0010	6.76	<0.00020	<0.00020	<3.0	4.2	<0.00010	<0.0050	<0.0050	0.0032	0.035	
	Geometric Mean	1.13	0.00050	0.00050	6.53	0.000100	0.000100	1.50	2.8	0.000050	0.00250	0.00250	0.00200	0.031	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	3	0	
	Standard Deviation	0.02	0.00000	0.00000	0.34	0.000000	0.000000	0.00	0.8	0.000000	0.00000	0.00000	0.0009	0.004	
	1st Quartile	1.12	<0.0010	<0.0010	6.63	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	<0.0030	0.029	
	Median	1.13	<0.0010	<0.0010	6.65	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	<0.0030	0.031	
	3rd Quartile	1.14	<0.0010	<0.0010	6.72	<0.00020	<0.00020	<3.0	2.9	<0.00010	<0.0050	<0.0050	0.003	0.035	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Long Lake Middle 1 M LLM1 E206619	Average	0.00050	0.00051	0.0140	0.0118	26.6	0.0364	0.0000050	0.00035	0.034	0.0255	0.0072	0.00351	60.3
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00031	0.00032	0.0057	0.0037	16	<0.050	<0.000010	0.00027	0.016	0.0084	0.0036	<0.0010	30.6
	Maximum	0.00076	0.00065	0.0279	0.0258	34	0.069	<0.000010	0.00044	0.057	0.0419	0.0118	0.0088	94.9
	Geometric Mean	0.00048	0.00049	0.0120	0.0095	26.0	0.0333	0.0000050	0.00035	0.031	0.0217	0.0067	0.00237	57.5
	Count <DL	0	0	0	0	0	10	15	0	0	0	0	3	0
	Standard Deviation	0.00014	0.00013	0.0081	0.0075	5.4	0.0170	0.0000000	0.00004	0.015	0.0128	0.0027	0.00283	18.8
	1st Quartile	0.00035	0.00035	0.0072	0.0046	24	0.025	5.00E-06	0.00032	0.022	0.0109	0.0051	0.0014	50.6
	Median	0.00054	0.00057	0.0103	0.0101	27	<0.050	<0.000010	0.00035	0.028	0.0296	0.0071	0.0022	54.6
	3rd Quartile	0.0006	0.00062	0.0214	0.0192	31	0.055	5.00E-06	0.00038	0.05	0.035	0.0084	0.0056	74.2
Long Lake Middle 4 M LLM4 E206619	Average	0.00049	0.00051	0.0137	0.0113	27.1	0.0368	0.0000050	0.00034	0.036	0.0251	0.0073	0.00387	65.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00029	0.00032	0.0051	0.0038	21	<0.050	<0.000010	0.00028	0.016	0.0081	0.0036	<0.0010	48.0
	Maximum	0.00061	0.00065	0.0286	0.0220	32	0.066	<0.000010	0.00052	0.062	0.0419	0.0116	0.0095	92.2
	Geometric Mean	0.00047	0.00049	0.0112	0.0094	26.9	0.0335	0.0000050	0.00034	0.032	0.0210	0.0069	0.00255	64.1
	Count <DL	0	0	0	0	0	10	15	0	0	0	0	3	0
	Standard Deviation	0.00011	0.00013	0.0090	0.0066	3.3	0.0174	0.0000000	0.00006	0.017	0.0132	0.0023	0.00304	15.3
	1st Quartile	0.00036	0.00034	0.0063	0.0048	24.5	0.025	5.00E-06	0.0003	0.023	0.0094	0.006	0.00125	54
	Median	0.00053	0.00056	0.0095	0.0098	27	<0.050	<0.000010	0.00033	0.027	0.0255	0.0066	0.0027	60.5
	3rd Quartile	0.00058	0.00061	0.0233	0.018	30.5	0.0575	5.00E-06	0.00035	0.054	0.0372	0.0083	0.0063	76.6
Long Lake Middle 9 M LLM9 E206619	Average	0.00034	0.00034	0.0091	0.0071	36.9	0.0697	0.0000050	0.00030	0.035	0.0183	0.0302	0.0175	96.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00023	0.00025	0.0055	0.0037	26	<0.050	<0.000010	0.00025	0.016	0.0114	0.0087	0.0024	51.9
	Maximum	0.00059	0.00065	0.0212	0.0177	41	0.089	<0.000010	0.00039	0.064	0.0363	0.0825	0.0379	118
	Geometric Mean	0.00033	0.00033	0.0086	0.0064	36.5	0.0672	0.0000050	0.00030	0.031	0.0170	0.0251	0.0133	94.8
	Count <DL	0	0	0	0	0	1	15	0	0	0	0	0	0
	Standard Deviation	0.00009	0.00011	0.0038	0.0036	5.2	0.0159	0.0000000	0.00004	0.018	0.0077	0.0200	0.0117	18.2
	1st Quartile	0.00029	0.00027	0.0069	0.0042	33.5	0.064	5.00E-06	0.00028	0.022	0.0119	0.0173	0.008	90.4
	Median	0.00032	0.0003	0.008	0.0072	39	0.074	<0.000010	0.0003	0.027	0.0167	0.0226	0.0166	102
	3rd Quartile	0.00038	0.00036	0.0103	0.0076	40.5	0.08	5.00E-06	0.00032	0.055	0.0226	0.0374	0.0277	108.5
Long Lake Middle 1M From B LLMB E206619	Average	0.00034	0.00030	0.0071	0.00473	40.3	0.079	0.0000050	0.00030	0.055	0.0152	0.2792	0.15675	103.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00025	0.00021	0.0050	<0.0030	34	0.065	<0.000010	0.00024	0.018	0.0057	0.0066	<0.0010	84.5
	Maximum	0.00060	0.00058	0.0091	0.0070	45	0.092	<0.000010	0.00040	0.112	0.0345	0.792	0.509	117
	Geometric Mean	0.00033	0.00029	0.0069	0.00433	40.2	0.078	0.0000050	0.00030	0.050	0.0133	0.1519	0.03773	103.1
	Count <DL	0	0	0	2	0	0	15	0	0	0	0	1	0
	Standard Deviation	0.00009	0.00009	0.0015	0.00173	2.8	0.008	0.0000000	0.00004	0.023	0.0078	0.2756	0.18097	9.7
	1st Quartile	0.00029	0.00026	0.0059	0.0038	40	0.074	5.00E-06	0.00027	0.042	0.0081	0.0779	0.00395	101
	Median	0.00032	0.00027	0.0069	0.0047	41	0.078	<0.000010	0.0003	0.057	0.0156	0.163	0.0839	104
	3rd Quartile	0.00034	0.00029	0.0084	0.0061	42	0.084	5.00E-06	0.00032	0.063	0.0192	0.461	0.2225	111.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Long Lake Middle 1 M LLM1 E206619	Average	6.12	0.00058	0.00050	7.30	0.000108	0.000100	17.3	50.7	0.000050	0.00321	0.00250	0.0025	0.0288	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	3.02	<0.0010	<0.0010	6.77	<0.00020	<0.00020	7.1	21	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.87	0.0017	<0.0010	7.95	0.00022	<0.00020	27.6	77	<0.00010	0.0132	<0.0050	0.0063	0.089	
	Geometric Mean	5.84	0.00054	0.00050	7.28	0.000105	0.000100	16.1	47.7	0.000050	0.00279	0.00250	0.0022	0.0217	
	Count <DL	0	14	15	0	14	15	0	0	15	14	15	9	6	
	Standard Deviation	1.83	0.00031	0.00000	0.42	0.000031	0.000000	6.3	16.9	0.000000	0.00276	0.00000	0.0014	0.0239	
	1st Quartile	5.22	0.0005	0.0005	6.92	0.0001	0.0001	14.4	43.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	5.72	<0.0010	<0.0010	7.29	<0.00020	<0.00020	15.2	47	<0.00010	<0.0050	<0.0050	<0.0030	0.023	
	3rd Quartile	7.91	0.0005	0.0005	7.65	0.0001	0.0001	23.5	65.5	5.00E-05	0.0025	0.0025	0.0032	0.0335	
Long Lake Middle 4 M LLM4 E206619	Average	6.60	0.00050	0.00050	7.29	0.000100	0.000100	19.2	55.7	0.000050	0.00250	0.00250	0.002	0.0137	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	4.94	<0.0010	<0.0010	6.75	<0.00020	<0.00020	13.6	45	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.96	<0.0010	<0.0010	7.88	<0.00020	<0.00020	30.1	77	<0.00010	<0.0050	<0.0050	0.0044	0.027	
	Geometric Mean	6.47	0.00050	0.00050	7.28	0.000100	0.000100	18.5	54.6	0.000050	0.00250	0.00250	0.00180	0.0126	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	12	11	
	Standard Deviation	1.40	0.00000	0.00000	0.40	0.000000	0.000000	5.5	11.9	0.000000	0.00000	0.00000	0.001	0.0064	
	1st Quartile	5.68	0.0005	0.0005	6.96	0.0001	0.0001	15	46.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	5.91	<0.0010	<0.0010	7.33	<0.00020	<0.00020	16.2	50	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	7.98	0.0005	0.0005	7.6	0.0001	0.0001	24.4	64.5	5.00E-05	0.0025	0.0025	0.0015	0.0155	
Long Lake Middle 9 M LLM9 E206619	Average	10.76	0.00050	0.00050	6.74	0.000100	0.000100	29.4	84.5	0.000050	0.00250	0.00250	0.0024	0.0393	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	5.49	<0.0010	<0.0010	6.43	<0.00020	<0.00020	14.8	45	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	12.5	<0.0010	<0.0010	7.06	<0.00020	<0.00020	35.1	98	<0.00010	<0.0050	<0.0050	0.0062	0.082	
	Geometric Mean	10.45	0.00050	0.00050	6.74	0.000100	0.000100	28.4	82.5	0.000050	0.00250	0.00250	0.0022	0.0313	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	9	4	
	Standard Deviation	2.35	0.00000	0.00000	0.20	0.000000	0.000000	6.9	16.8	0.000000	0.00000	0.00000	0.0014	0.0229	
	1st Quartile	10.13	0.0005	0.0005	6.6	0.0001	0.0001	27.2	79	5.00E-05	0.0025	0.0025	0.0015	0.019	
	Median	12	<0.0010	<0.0010	6.68	<0.00020	<0.00020	32.6	93	<0.00010	<0.0050	<0.0050	<0.0030	0.039	
	3rd Quartile	12.1	0.0005	0.0005	6.92	0.0001	0.0001	33.3	95	5.00E-05	0.0025	0.0025	0.0032	0.057	
Long Lake Middle 1M From B LLMB E206619	Average	12.07	0.00050	0.00050	6.59	0.000100	0.000100	32.7	92.3	0.000050	0.00250	0.00277	0.0023	0.1223	
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum	8.81	<0.0010	<0.0010	6.33	<0.00020	<0.00020	25.5	72	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	13.3	<0.0010	<0.0010	6.88	<0.00020	<0.00020	35.8	100	<0.00010	<0.0050	0.0065	0.0057	0.767	
	Geometric Mean	12.01	0.00050	0.00050	6.59	0.000100	0.000100	32.5	91.9	0.000050	0.00250	0.00266	0.00200	0.0807	
	Count <DL	0	15	15	0	15	15	0	0	15	15	14	11	1	
	Standard Deviation	1.21	0.00000	0.00000	0.17	0.000000	0.000000	3.2	8.6	0.000000	0.00000	0.00103	0.0015	0.1799	
	1st Quartile	11.95	0.0005	0.0005	6.5	0.0001	0.0001	31.7	90.5	5.00E-05	0.0025	0.0025	0.0015	0.0665	
	Median	12.5	<0.0010	<0.0010	6.57	<0.00020	<0.00020	34.1	95	<0.00010	<0.0050	<0.0050	<0.0030	0.086	
	3rd Quartile	12.75	0.0005	0.0005	6.71	0.0001	0.0001	34.7	99.5	5.00E-05	0.0025	0.0025	0.0024	0.092	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024		Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	0.00058	0.00054	0.0334	0.0228	28.0	0.0250	0.0000050	0.00053	0.076	0.0399	0.0045	0.0023	28.2	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.00055	0.00052	0.0211	0.0151	26	<0.050	<0.000010	0.00046	0.065	0.0357	0.0037	0.0017	26.5	
	Maximum	0.00060	0.00056	0.0386	0.0287	30	<0.050	<0.000010	0.00057	0.092	0.0423	0.0053	0.0031	29.2	
	Geometric Mean	0.00058	0.00054	0.0327	0.0223	28.0	0.0250	0.0000050	0.00053	0.076	0.0399	0.0044	0.0022	28.2	
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	
	Standard Deviation	0.00002	0.00002	0.0071	0.0052	1.6	0.0000	0.0000000	0.00004	0.012	0.0025	0.0007	0.0006	1.1	
	1st Quartile	0.00057	0.00052	0.0343	0.0205	27	<0.050	<0.000010	0.00052	0.069	0.0402	0.0039	0.0018	27.8	
	Median	0.00058	0.00054	0.0355	0.0241	28	<0.050	<0.000010	0.00053	0.07	0.0403	0.0044	0.0024	28.4	
	3rd Quartile	0.0006	0.00055	0.0377	0.0258	29	<0.050	<0.000010	0.00056	0.085	0.0412	0.0051	0.0024	29	
Lower Quinsam Lake 4M LQL4 E292118	Average	0.00055	0.00055	0.0322	0.0231	27.8	0.0250	0.0000050	0.00071	0.082	0.0395	0.0043	0.0021	29.9	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.00050	0.00054	0.0199	0.0144	26	<0.050	<0.000010	0.00055	0.067	0.0363	0.0035	0.0016	25.7	
	Maximum	0.00059	0.00058	0.0387	0.0300	30	<0.050	<0.000010	0.00101	0.107	0.0418	0.0051	0.0031	41.1	
	Geometric Mean	0.00055	0.00055	0.0313	0.0224	27.8	0.0250	0.0000050	0.00069	0.081	0.0394	0.0043	0.0021	29.4	
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	
	Standard Deviation	0.00004	0.00002	0.0080	0.0058	1.5	0.0000	0.0000000	0.00020	0.016	0.0024	0.0007	0.0006	6.4	
	1st Quartile	0.00054	0.00054	0.0285	0.0214	27	<0.050	<0.000010	0.00056	0.072	0.0376	0.0041	0.0017	26.2	
	Median	0.00055	0.00055	0.0367	0.0234	28	<0.050	<0.000010	0.0006	0.078	0.0405	0.0041	0.0018	27.7	
	3rd Quartile	0.00058	0.00056	0.0374	0.0262	28	<0.050	<0.000010	0.00084	0.086	0.0411	0.0049	0.0025	28.6	
Lower Quinsam Lake 9M LQL9 E292118	Average	0.00057	0.00054	0.0322	0.0216	28.2	0.0250	0.0000050	0.00054	0.080	0.0396	0.0045	0.00178	27.6	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.00055	0.00053	0.0201	0.0155	27	<0.050	<0.000010	0.00052	0.068	0.0358	0.0040	<0.0010	25.1	
	Maximum	0.00061	0.00056	0.0396	0.0247	30	<0.050	<0.000010	0.00056	0.097	0.0446	0.0050	0.0031	28.8	
	Geometric Mean	0.00057	0.00054	0.0314	0.0214	28.2	0.0250	0.0000050	0.00054	0.079	0.0394	0.0045	0.00151	27.6	
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	1	0	
	Standard Deviation	0.00002	0.00001	0.0074	0.0036	1.3	0.0000	0.0000000	0.00002	0.013	0.0036	0.0005	0.00100	1.5	
	1st Quartile	0.00056	0.00053	0.0315	0.0213	27	<0.050	<0.000010	0.00053	0.07	0.0363	0.0042	0.0013	27.2	
	Median	0.00056	0.00054	0.0333	0.023	28	<0.050	<0.000010	0.00054	0.075	0.0404	0.0043	0.0016	28.5	
	3rd Quartile	0.00058	0.00054	0.0364	0.0237	29	<0.050	<0.000010	0.00056	0.091	0.0407	0.005	0.0024	28.5	
Lower Quinsam Lake 1MB LQLB E292118	Average	0.00061	0.00056	0.0346	0.0215	28.4	0.0250	0.0000050	0.00054	0.091	0.0440	0.0055	0.0025	28.3	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	0.00058	0.00054	0.0200	0.0137	27	<0.050	<0.000010	0.00050	0.081	0.0395	0.0046	0.0015	26.4	
	Maximum	0.00064	0.00060	0.0434	0.0259	31	<0.050	<0.000010	0.00057	0.097	0.0492	0.0067	0.0049	29.1	
	Geometric Mean	0.00061	0.00056	0.0335	0.0210	28.4	0.0250	0.0000050	0.00054	0.090	0.0438	0.0054	0.0023	28.3	
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	
	Standard Deviation	0.00002	0.00002	0.0088	0.0048	1.7	0.0000	0.0000000	0.00003	0.006	0.0040	0.0009	0.0014	1.1	
	1st Quartile	0.0006	0.00054	0.0342	0.0211	27	<0.050	<0.000010	0.00051	0.088	0.0416	0.0048	0.0019	28.3	
	Median	0.00061	0.00056	0.0367	0.0217	28	<0.050	<0.000010	0.00054	0.092	0.0427	0.0052	0.0021	28.9	
	3rd Quartile	0.00061	0.00056	0.0386	0.025	29	<0.050	<0.000010	0.00056	0.095	0.0468	0.0061	0.0023	28.9	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	6.53	0.00050	0.00050	7.20	0.000100	0.000100	4.7	14.0	0.000062	0.00250	0.00250	0.0035	0.0230	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	5.08	<0.0010	<0.0010	7.10	<0.00020	<0.00020	3.6	11	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.94	<0.0010	<0.0010	7.4	<0.00020	<0.00020	5.9	17	0.00011	<0.0050	<0.0050	0.0064	0.049	
	Geometric Mean	6.45	0.00050	0.00050	7.20	0.000100	0.000100	4.6	13.8	0.000059	0.00250	0.00250	0.0031	0.0192	
	Count <DL	0	5	5	0	5	5	0	0	4	5	5	1	2	
	Standard Deviation	1.12	0.00000	0.00000	0.12	0.000000	0.000000	0.9	2.4	0.000027	0.00000	0.00000	0.0018	0.0159	
	1st Quartile	5.76	<0.0010	<0.0010	7.13	<0.00020	<0.00020	4.1	12	<0.00010	<0.0050	<0.0050	0.003	<0.020	
	Median	6.81	<0.0010	<0.0010	7.17	<0.00020	<0.00020	4.5	15	<0.00010	<0.0050	<0.0050	0.0032	0.022	
	3rd Quartile	7.04	<0.0010	<0.0010	7.21	<0.00020	<0.00020	5.4	15	<0.00010	<0.0050	<0.0050	0.0033	0.024	
Lower Quinsam Lake 4M LQL4 E292118	Average	6.57	0.00050	0.00050	7.21	0.000100	0.000100	4.6	14.2	0.000050	0.00250	0.00250	0.0027	0.0182	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	5.26	<0.0010	<0.0010	7.08	<0.00020	<0.00020	3.9	11	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.88	<0.0010	<0.0010	7.43	<0.00020	<0.00020	5.6	17	<0.00010	<0.0050	<0.0050	0.0037	0.025	
	Geometric Mean	6.51	0.00050	0.00050	7.21	0.000100	0.000100	4.6	14.0	0.000050	0.00250	0.00250	0.0025	0.0168	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	2	2	
	Standard Deviation	1.03	0.00000	0.00000	0.13	0.000000	0.000000	0.7	2.3	0.000000	0.00000	0.00000	0.0011	0.0075	
	1st Quartile	5.88	<0.0010	<0.0010	7.14	<0.00020	<0.00020	4.2	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	6.74	<0.0010	<0.0010	7.17	<0.00020	<0.00020	4.4	15	<0.00010	<0.0050	<0.0050	0.0033	0.023	
	3rd Quartile	7.1	<0.0010	<0.0010	7.24	<0.00020	<0.00020	5.1	15	<0.00010	<0.0050	<0.0050	0.0033	0.023	
Lower Quinsam Lake 9M LQL9 E292118	Average	6.86	0.00050	0.00050	7.20	0.000100	0.000100	5.2	14.4	0.000050	0.00250	0.00250	0.0019	0.0146	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	6.13	<0.0010	<0.0010	7.05	<0.00020	<0.00020	4.3	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.05	<0.0010	<0.0010	7.48	<0.00020	<0.00020	7.2	17	<0.00010	<0.0050	<0.0050	0.0034	0.022	
	Geometric Mean	6.82	0.00050	0.00050	7.20	0.000100	0.000100	5.1	14.3	0.000050	0.00250	0.00250	0.0018	0.0136	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	4	3	
	Standard Deviation	0.79	0.00000	0.00000	0.17	0.000000	0.000000	1.2	1.7	0.000000	0.00000	0.00000	0.0009	0.0063	
	1st Quartile	6.13	<0.0010	<0.0010	7.07	<0.00020	<0.00020	4.3	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	6.99	<0.0010	<0.0010	7.16	<0.00020	<0.00020	5	14	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	6.99	<0.0010	<0.0010	7.24	<0.00020	<0.00020	5	15	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
Lower Quinsam Lake 1MB LQLB E292118	Average	6.83	0.00072	0.00050	7.12	0.000100	0.000100	4.7	14.6	0.000050	0.00250	0.00250	0.00230	0.0216	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	6.04	<0.0010	<0.0010	6.95	<0.00020	<0.00020	4.0	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	8.16	0.0016	<0.0010	7.38	<0.00020	<0.00020	5.4	18	<0.00010	<0.0050	<0.0050	0.0055	0.043	
	Geometric Mean	6.79	0.00063	0.00050	7.12	0.000100	0.000100	4.7	14.5	0.000050	0.00250	0.00250	0.002	0.0185	
	Count <DL	0	4	5	0	5	5	0	0	5	5	5	4	2	
	Standard Deviation	0.85	0.00049	0.00000	0.17	0.000000	0.000000	0.6	2.1	0.000000	0.00000	0.00000	0.0018	0.0135	
	1st Quartile	6.17	<0.0010	<0.0010	6.99	<0.00020	<0.00020	4.4	13	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Median	6.76	<0.0010	<0.0010	7.09	<0.00020	<0.00020	4.6	14	<0.00010	<0.0050	<0.0050	<0.0030	0.021	
	3rd Quartile	7.02	<0.0010	<0.0010	7.21	<0.00020	<0.00020	5.3	15	<0.00010	<0.0050	<0.0050	<0.0030	0.024	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Settling Pond #4 WD E207409	Average	0.00184	0.00175	0.02207	0.00737	420	0.814	0.0000050	0.000248	0.267	0.0484	0.0625	0.0858	277
	Count	6	12	6	12	12	6	12	12	6	12	6	12	6
	Minimum	0.00125	0.00096	<0.0030	<0.0030	360	0.732	<0.000010	<0.00020	0.111	0.0086	0.0208	0.0083	185
	Maximum	0.00241	0.00417	0.100	0.0366	570	0.893	<0.000010	0.00056	0.480	0.230	0.125	0.237	343
	Geometric Mean	0.00180	0.00163	0.00762	0.00374	416	0.812	0.0000050	0.000200	0.231	0.0310	0.0510	0.0570	268
	Count <DL	0	0	2	6	0	0	12	5	0	0	0	0	0
	Standard Deviation	0.00043	0.00084	0.03844	0.01056	63	0.060	0.0000000	0.000169	0.158	0.0611	0.0410	0.0677	73
	1st Quartile	0.00158	0.00134	0.00298	0.0015	377	0.772	5.00E-06	0.0001	0.173	0.0164	0.0312	0.0235	213
	Median	0.00182	0.00154	0.00825	0.0024	405	0.828	5.00E-06	0.000225	0.195	0.0342	0.055	0.0857	305
	3rd Quartile	0.00214	0.00181	0.01195	0.00702	430	0.843	5.00E-06	0.000295	0.392	0.0399	0.0855	0.1178	334
North Pit Culvert WC E207411	Average	0.00066	0.00066	0.0100	0.0086		0.819	0.0000058	0.000343	0.048	0.0174	0.0097	0.0097	218
	Count	6	6	6	6		6	6	6	6	6	6	6	6
	Minimum	0.00056	0.00056	0.0049	0.0033		0.767	<0.000010	<0.00020	0.028	0.0095	0.0047	0.0044	135
	Maximum	0.00094	0.00093	0.0275	0.0223		0.884	0.000010	0.00079	0.087	0.0261	0.0176	0.0185	333
	Geometric Mean	0.00065	0.00065	0.0081	0.0071		0.819	0.0000056	0.000285	0.044	0.0164	0.0085	0.0085	206
	Count <DL	0	0	0	0		0	5	1	0	0	0	0	0
	Standard Deviation	0.00014	0.00015	0.0087	0.0069		0.038	0.0000020	0.000239	0.023	0.0061	0.0053	0.0056	78
	1st Quartile	0.0006	0.00056	0.0057	0.005		0.808	5.00E-06	0.000242	0.031	0.0131	0.0052	0.0053	155
	Median	0.00062	0.00058	0.007	0.0065		0.819	5.00E-06	0.000265	0.042	0.018	0.0085	0.0086	210
	3rd Quartile	0.00064	0.0007	0.0077	0.0082		0.822	5.00E-06	0.00037	0.059	0.0203	0.0131	0.0127	265
Settling Pond # 1 SPD E218582	Average	0.00159	0.00153	0.01835	0.01705	92.8	0.271	0.0000050	0.000381	0.141	0.0875	0.0320	0.02682	395
	Count	6	13	6	13	12	6	13	13	6	13	6	13	6
	Minimum	0.00141	0.00097	<0.0030	<0.0030	47	0.140	<0.000010	<0.00020	0.058	0.0203	0.0118	<0.0010	180
	Maximum	0.00180	0.00250	0.0472	0.0632	120	0.370	<0.000010	0.00138	0.226	0.250	0.0480	0.0729	550
	Geometric Mean	0.00158	0.00149	0.01060	0.00809	90.6	0.252	0.0000050	0.000281	0.130	0.0711	0.0283	0.01724	368
	Count <DL	0	0	1	3	0	0	13	3	0	0	0	1	0
	Standard Deviation	0.00015	0.00040	0.01743	0.01927	18.7	0.106	0.0000000	0.000354	0.057	0.0608	0.0149	0.01991	148
	1st Quartile	0.00146	0.00125	0.00518	0.0031	88.5	0.178	<0.000010	0.00021	0.114	0.0605	0.0208	0.011	301
	Median	0.0016	0.00161	0.0145	0.0062	94	0.302	<0.000010	0.00024	0.14	0.0657	0.0363	0.0311	418
	3rd Quartile	0.00167	0.00172	0.02638	0.0337	100.2	0.358	<0.000010	0.00039	0.167	0.116	0.042	0.0353	514
Culvert into Long Lake LLE E292130	Average	0.00066	0.00057	0.0592	0.03004	59.0	0.158	0.0000050	0.000396	0.355	0.1830	0.0384	0.0407	240
	Count	9	9	9	9	9	9	9	9	9	9	9	9	9
	Minimum	0.00034	0.00029	0.0047	<0.0030	37	0.090	<0.000010	<0.00020	0.089	0.0771	0.0083	0.0086	134
	Maximum	0.00104	0.00073	0.126	0.0725	100	0.346	<0.000010	0.00074	0.981	0.391	0.139	0.151	493
	Geometric Mean	0.00063	0.00055	0.0435	0.01928	55.9	0.138	0.0000050	0.000349	0.259	0.1587	0.0240	0.0244	216
	Count <DL	0	0	0	1	0	0	9	1	0	0	0	0	0
	Standard Deviation	0.00020	0.00014	0.0388	0.02207	21.7	0.098	0.0000000	0.000192	0.300	0.1072	0.0453	0.0499	124
	1st Quartile	0.00056	0.00049	0.037	0.0137	45	0.096	<0.000010	0.0003	0.131	0.103	0.0149	0.0145	144
	Median	0.00065	0.00061	0.058	0.0307	52	0.103	<0.000010	0.00036	0.217	0.153	0.0202	0.0175	179
	3rd Quartile	0.00075	0.00066	0.0703	0.0426	67	0.169	<0.000010	0.00044	0.461	0.247	0.027	0.029	265

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Settling Pond #4 WD E207409	Average	247.5	0.00168	0.00099	7.64	0.000100	0.000100	137.0	372	0.000050	0.00250	0.00250			
	Count	12	6	12	49	6	12	12	49	12	6	12			
	Minimum	228	<0.0010	<0.0010	7.15	<0.00020	<0.00020	57.7	160	<0.00010	<0.0050	<0.0050			
	Maximum	260	0.0037	0.0033	8.13	<0.00020	<0.00020	184	570	<0.00010	<0.0050	<0.0050			
	Geometric Mean	247.3	0.00116	0.00080	7.64	0.000100	0.000100	129.5	353	0.000050	0.00250	0.00250			
	Count <DL	0	3	7	0	6	12	0	0	12	6	12			
	Standard Deviation	11.2	0.00148	0.00083	0.26	0.000000	0.000000	40.5	105	0.000000	0.00000	0.00000			
	1st Quartile	241	0.0005	0.0005	7.44	0.0001	0.0001	133	340	5.00E-05	0.0025	0.0025			
	Median	251.5	0.00105	0.0005	7.62	0.0001	0.0001	140	380	5.00E-05	0.0025	0.0025			
	3rd Quartile	255.2	0.00288	0.00125	7.89	0.0001	0.0001	166.2	440	5.00E-05	0.0025	0.0025			
North Pit Culvert WC E207411	Average	230.0	0.00070	0.00070	8.20	0.000100	0.000100	115.8	309	0.000050	0.00250	0.00250			
	Count	6	6	6	13	6	6	6	13	6	6	6			
	Minimum	197	<0.0010	<0.0010	7.68	<0.00020	<0.00020	63.1	170	<0.00010	<0.0050	<0.0050			
	Maximum	255	0.0017	0.0017	8.63	<0.00020	<0.00020	172	470	<0.00010	<0.0050	<0.0050			
	Geometric Mean	229.0	0.00061	0.00061	8.20	0.000100	0.000100	108.9	294	0.000050	0.00250	0.00250			
	Count <DL	0	5	5	0	6	6	0	0	6	6	6			
	Standard Deviation	23.0	0.00049	0.00049	0.26	0.000000	0.000000	41.6	95	0.000000	0.00000	0.00000			
	1st Quartile	214.8	0.0005	0.0005	8.05	0.0001	0.0001	84.2	210	5.00E-05	0.0025	0.0025			
	Median	233	0.0005	0.0005	8.12	0.0001	0.0001	129	340	5.00E-05	0.0025	0.0025			
	3rd Quartile	248.2	0.0005	0.0005	8.43	0.0001	0.0001	131.8	360	5.00E-05	0.0025	0.0025			
Settling Pond # 1 SPD E218582	Average	38.2	0.00050	0.00050	7.56	0.000100	0.000100	139.7	364	0.000055	0.00250	0.00270			
	Count	13	6	13	47	6	13	13	47	13	6	13			
	Minimum	14.1	<0.0010	<0.0010	6.6	<0.00020	<0.00020	41.6	93	<0.00010	<0.0050	<0.0050			
	Maximum	64.6	<0.0010	<0.0010	8.33	<0.00020	<0.00020	225	580	0.00011	<0.0050	0.0051			
	Geometric Mean	34.8	0.00050	0.00050	7.55	0.000100	0.000100	126.1	334	0.000053	0.00250	0.00264			
	Count <DL	0	6	13	0	6	13	0	0	12	6	12			
	Standard Deviation	15.8	0.00000	0.00000	0.47	0.000000	0.000000	58.5	138	0.000017	0.00000	0.00072			
	1st Quartile	24	0.0005	<0.0010	7.24	0.0001	<0.00020	99.4	265	<0.00010	0.0025	<0.0050			
	Median	34.7	0.0005	<0.0010	7.59	0.0001	<0.00020	132	350	<0.00010	0.0025	<0.0050			
	3rd Quartile	51.7	0.0005	<0.0010	7.98	0.0001	<0.00020	203	505	<0.00010	0.0025	<0.0050			
Culvert into Long Lake LLE E292130	Average	24.0	0.00050	0.00050	7.35	0.000100	0.000116	84.1	227	0.000050	0.00250	0.00332	0.0051	0.0514	0.0075
	Count	9	9	9	39	9	9	9	39	9	9	9	9	9	9
	Minimum	13.0	<0.0010	<0.0010	6.46	<0.00020	<0.00020	42.7	82	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	<0.015
	Maximum	52.5	<0.0010	<0.0010	8.25	<0.00020	0.00024	197	530	<0.00010	<0.0050	0.0099	0.012	0.244	<0.015
	Geometric Mean	20.8	0.00050	0.00050	7.34	0.000100	0.000110	72.3	196	0.000050	0.00250	0.00291	0.0042	0.0282	0.0075
	Count <DL	0	9	9	0	9	8	0	0	9	9	8	2	3	9
	Standard Deviation	14.7	0.00000	0.00000	0.38	0.000000	0.000047	53.8	132	0.000000	0.00000	0.00247	0.00320	0.0750	0.0000
	1st Quartile	13.8	<0.0010	<0.0010	7.06	<0.00020	<0.00020	43.7	135	<0.00010	<0.0050	<0.0050	0.003	<0.020	<0.015
	Median	14.7	<0.0010	<0.0010	7.48	<0.00020	<0.00020	56.9	160	<0.00010	<0.0050	<0.0050	0.0046	0.025	<0.015
	3rd Quartile	30.1	<0.0010	<0.0010	7.61	<0.00020	<0.00020	89.9	300	<0.00010	<0.0050	<0.0050	0.0061	0.042	<0.015

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seep into Long Lake LLS E292131	Average	0.00150	0.00102	0.04693	0.00407	168.6	0.417	0.0000050	0.000213	0.764	0.452	0.198	0.209	534
	Count	7	7	7	7	7	7	7	7	7	7	7	7	7
	Minimum	0.00053	0.00050	<0.0030	<0.0030	120	0.356	<0.000010	<0.00020	0.141	0.107	0.129	0.139	472
	Maximum	0.00293	0.00195	0.273	0.0156	200	0.587	<0.000010	0.00044	1.77	0.903	0.248	0.259	653
	Geometric Mean	0.00132	0.00090	0.00770	0.00252	166.1	0.411	0.0000050	0.000183	0.591	0.329	0.192	0.201	531
	Count <DL	0	0	3	5	0	0	7	3	0	0	0	0	0
	Standard Deviation	0.00080	0.00057	0.10042	0.00529	29.7	0.081	0.0000000	0.000125	0.535	0.348	0.050	0.057	64
	1st Quartile	0.00098	0.00059	0.0015	0.0015	150	0.37	5.00E-06	0.0001	0.412	0.156	0.158	0.152	488
	Median	0.00144	0.00069	0.0043	<0.0030	180	0.384	<0.000010	0.00024	0.82	0.301	0.216	0.252	506
	3rd Quartile	0.00183	0.00142	0.02335	0.00345	190	0.426	5.00E-06	0.000255	0.895	0.771	0.238	0.253	567
Long Lake Middle Seep LLSM E292131	Average	0.000373	0.00037	0.0160	0.0080	148.3	0.338	0.0000050	0.00041	0.1990	0.1801	0.07895	0.0902	439
	Count	6	6	6	6	6	6	6	6	6	6	6	6	6
	Minimum	<0.00010	0.00013	0.0044	0.0032	110	0.305	<0.000010	0.00021	<0.010	0.0212	<0.0010	0.0127	367
	Maximum	0.00072	0.00066	0.0314	0.0127	170	0.418	<0.000010	0.00063	0.435	0.419	0.172	0.192	497
	Geometric Mean	0.000255	0.00029	0.0128	0.0070	146.9	0.336	0.0000050	0.00039	0.0962	0.1051	0.02727	0.0597	437
	Count <DL	1	0	0	0	0	0	6	0	1	0	1	0	0
	Standard Deviation	0.000291	0.00025	0.0109	0.0039	21.4	0.042	0.0000000	0.00014	0.1786	0.1642	0.07535	0.0737	46
	1st Quartile	0.000145	0.00014	0.0078	0.0046	142.5	0.311	5.00E-06	0.00035	0.0582	0.04	0.0145	0.0287	419
	Median	0.00034	0.00035	0.0136	0.009	155	0.328	5.00E-06	0.0004	0.1865	0.1556	0.0744	0.0832	437
	3rd Quartile	0.000618	0.00057	0.0238	0.0103	160	0.339	5.00E-06	0.00047	0.3208	0.2845	0.137	0.1402	471
7S Surface Decant 7SSD E292069	Average	0.00378	0.00353	0.0360	0.00545	131	0.0332	0.0000050	0.00060	0.326	0.1075	0.3322	0.2979	133.2
	Count	4	4	4	4	4	4	4	4	4	4	4	4	4
	Minimum	0.00058	0.00040	0.0066	<0.0030	77	<0.050	<0.000010	0.00040	0.028	0.0209	0.0272	0.0273	85.6
	Maximum	0.0117	0.0114	0.0822	0.0108	180	0.058	<0.000010	0.00085	0.838	0.355	0.922	0.908	162
	Geometric Mean	0.00177	0.00141	0.0239	0.00435	126	0.0309	0.0000050	0.00058	0.171	0.0483	0.1362	0.1140	129.4
	Count <DL	0	0	0	1	0	3	4	0	0	0	0	0	0
	Standard Deviation	0.00533	0.00529	0.0340	0.00392	42	0.0165	0.0000000	0.00020	0.364	0.1650	0.4187	0.4172	34.1
	1st Quartile	0.00065	0.00046	0.0128	0.00345	116	0.025	5.00E-06	0.00047	0.09	0.0253	0.0372	0.0295	120.4
	Median	0.00142	0.00116	0.0276	0.00475	135	0.025	5.00E-06	0.00058	0.218	0.027	0.1898	0.1281	142.5
	3rd Quartile	0.00455	0.00422	0.0508	0.00675	150	0.0332	5.00E-06	0.00072	0.453	0.1093	0.4848	0.3965	155.2
Stream 1 7S 7S E292109	Average	0.000066	0.000086	0.0299	0.0288	12.8	0.0250	0.0000076	0.00041	0.0078	0.00776	0.00050	0.00050	14.4
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	<0.00010	<0.00010	0.0175	0.0173	11	<0.050	<0.000010	0.00031	<0.010	<0.0050	<0.0010	<0.0010	11.3
	Maximum	0.00013	0.00020	0.0510	0.0459	15	<0.050	0.000026	0.00060	0.020	0.0123	<0.0010	<0.0010	18.1
	Geometric Mean	0.000061	0.000074	0.0279	0.0276	12.7	0.0250	0.0000061	0.00040	0.0066	0.00703	0.00050	0.00050	14.2
	Count <DL	6	5	0	0	0	8	7	0	6	1	8	8	0
	Standard Deviation	0.000031	0.000056	0.0123	0.0094	1.5	0.0000	0.0000074	0.00011	0.0055	0.00332	0.00000	0.00000	2.4
	1st Quartile	5.00E-05	5.00E-05	0.0213	0.0216	11.8	0.025	5.00E-06	0.00032	0.005	0.00602	0.0005	0.0005	12.6
	Median	5.00E-05	5.00E-05	0.0264	0.0284	12.5	0.025	5.00E-06	0.00037	0.005	0.0069	0.0005	0.0005	14.2
	3rd Quartile	6.20E-05	0.000115	0.0349	0.0332	14	0.025	5.00E-06	0.00047	0.0068	0.0103	0.0005	0.0005	15.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seep into Long Lake LLS E292131	Average	61.9	0.0026	0.0027	7.24	0.000100	0.000100	178.3	495	0.000050	0.00293	0.00250			
	Count	7	7	7	7	7	7	7	7	7	7	7			
	Minimum	55.1	0.0012	0.0013	6.81	<0.00020	<0.00020	163	450	<0.00010	<0.0050	<0.0050			
	Maximum	69.9	0.0068	0.0069	7.56	<0.00020	<0.00020	202	590	<0.00010	0.0055	<0.0050			
	Geometric Mean	61.7	0.0021	0.0022	7.23	0.000100	0.000100	177.9	493	0.000050	0.00280	0.00250			
	Count <DL	0	0	0	0	7	7	0	0	7	6	7			
	Standard Deviation	5.9	0.0020	0.0020	0.26	0.000000	0.000000	13.0	51	0.000000	0.00113	0.00000			
	1st Quartile	56.9	0.0015	0.0014	7.1	0.0001	0.0001	170.5	465	5.00E-05	0.0025	0.0025			
	Median	61.7	0.0019	0.0021	7.36	<0.00020	<0.00020	175	480	<0.00010	<0.0050	<0.0050			
	3rd Quartile	66.6	0.0025	0.0028	7.36	0.0001	0.0001	183.5	510	5.00E-05	0.0025	0.0025			
Long Lake Middle Seep LLSM E292131	Average	50.4	0.00155	0.0015	7.48	0.000100	0.000100	144.7	403	0.000085	0.00250	0.00250			
	Count	6	6	6	7	6	6	6	6	6	6	6			
	Minimum	42.3	<0.0010	0.0010	7.05	<0.00020	<0.00020	127	340	<0.00010	<0.0050	<0.0050			
	Maximum	56.7	0.0032	0.0026	7.83	<0.00020	<0.00020	155	440	0.00015	<0.0050	<0.0050			
	Geometric Mean	50.2	0.00134	0.0015	7.47	0.000100	0.000100	144.3	402	0.000077	0.00250	0.00250			
	Count <DL	0	1	0	0	6	6	0	0	3	6	6			
	Standard Deviation	5.3	0.00091	0.0006	0.32	0.000000	0.000000	11.8	33	0.000042	0.00000	0.00000			
	1st Quartile	47.7	0.00122	0.0013	7.2	0.0001	0.0001	137.2	402	5.00E-05	0.0025	0.0025			
	Median	50.8	0.0013	0.0014	7.58	0.0001	0.0001	147.5	410	7.50E-05	0.0025	0.0025			
	3rd Quartile	54.4	0.00167	0.0015	7.74	0.0001	0.0001	154.8	417	0.000108	0.0025	0.0025			
7S Surface Decant 7SSD E292069	Average	6.48	0.00050	0.00050	7.64	0.000235	0.000100	5.7	15.7	0.000050	0.00250	0.00250	0.0046		
	Count	4	4	4	4	4	4	4	4	4	4	4	1		
	Minimum	2.62	<0.0010	<0.0010	7.16	<0.00020	<0.00020	3.9	6.7	<0.00010	<0.0050	<0.0050	0.0046		
	Maximum	13.0	<0.0010	<0.0010	8.19	0.00064	<0.00020	8.3	25	<0.00010	<0.0050	<0.0050	0.0046		
	Geometric Mean	5.46	0.00050	0.00050	7.62	0.000159	0.000100	5.5	13.9	0.000050	0.00250	0.00250	0.0046		
	Count <DL	0	4	4	0	3	4	0	0	4	4	4	0		
	Standard Deviation	4.54	0.00000	0.00000	0.51	0.000270	0.000000	2.0	8.3	0.000000	0.00000	0.00000	0.0000		
	1st Quartile	4.02	0.0005	0.0005	7.22	0.0001	0.0001	4.2	9.9	5.00E-05	0.0025	0.0025	0.0046		
	Median	5.15	0.0005	0.0005	7.6	0.0001	0.0001	5.4	15.5	5.00E-05	0.0025	0.0025	0.0046		
	3rd Quartile	7.62	0.0005	0.0005	8.01	0.000235	0.0001	6.9	21.2	5.00E-05	0.0025	0.0025	0.0046		
Stream 1 7S 7S E292109	Average	1.60	0.00050	0.00050	7.10	0.000100	0.000100	1.50	2.9	0.000050	0.00250	0.00250			
	Count	8	8	8	8	8	8	8	8	8	8	8			
	Minimum	1.44	<0.0010	<0.0010	6.37	<0.00020	<0.00020	<3.0	1.8	<0.00010	<0.0050	<0.0050			
	Maximum	1.93	<0.0010	<0.0010	7.74	<0.00020	<0.00020	<3.0	4.2	<0.00010	<0.0050	<0.0050			
	Geometric Mean	1.59	0.00050	0.00050	7.08	0.000100	0.000100	1.50	2.8	0.000050	0.00250	0.00250			
	Count <DL	0	8	8	0	8	8	8	0	8	8	8			
	Standard Deviation	0.17	0.00000	0.00000	0.48	0.000000	0.000000	0.00	0.8	0.000000	0.00000	0.00000			
	1st Quartile	1.48	0.0005	0.0005	6.87	0.0001	0.0001	1.5	2.2	5.00E-05	0.0025	0.0025			
	Median	1.55	0.0005	0.0005	7.04	0.0001	0.0001	1.5	2.8	5.00E-05	0.0025	0.0025			
	3rd Quartile	1.64	0.0005	0.0005	7.52	0.0001	0.0001	1.5	3.4	5.00E-05	0.0025	0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
2 North Portal Sump 2NPS E283433	Average	0.00065	0.000415	0.1453	0.01264	293	0.760	0.0000116	0.000474	0.300	0.03244	0.1463	0.1542	661
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00039	<0.00010	0.0048	<0.0030	45	0.151	<0.000010	<0.00020	0.155	<0.0050	0.0835	0.0649	182
	Maximum	0.00141	0.00075	1.22	0.0464	340	1.02	0.000039	0.00211	1.33	0.136	0.285	0.287	922
	Geometric Mean	0.00061	0.000352	0.0306	0.00890	268	0.705	0.0000097	0.000311	0.239	0.02054	0.1370	0.1429	622
	Count <DL	0	1	0	2	0	0	10	7	0	2	0	0	0
	Standard Deviation	0.00027	0.000192	0.3464	0.01189	80	0.212	0.0000091	0.000570	0.326	0.03528	0.0582	0.0623	188
	1st Quartile	0.00045	0.000282	0.0096	0.00578	307	0.733	8.80E-06	0.0002	0.184	0.01335	0.1092	0.1152	601
	Median	0.00062	0.00044	0.0263	0.0112	320	0.78	1.00E-05	0.0002	0.204	0.0265	0.1275	0.1355	649
	3rd Quartile	0.00073	0.00054	0.0547	0.01438	330	0.845	1.00E-05	0.000522	0.24	0.03885	0.1728	0.188	767
3-Mains 2North 3M2N	Average	0.000363	0.000293	0.01765	0.00494	367	0.776	0.0000073	0.001765	0.513	0.1106	0.1312	0.1440	425
	Count	11	11	11	11	11	11	11	11	11	11	11	11	11
	Minimum	<0.00010	<0.00020	<0.0030	<0.0030	290	0.673	<0.000010	<0.00020	0.014	<0.010	0.0048	0.0055	363
	Maximum	0.00064	0.00045	0.110	0.0197	400	0.853	<0.000020	0.00637	1.38	0.240	0.189	0.195	597
	Geometric Mean	0.000317	0.000276	0.00840	0.00360	365	0.774	0.0000069	0.000871	0.336	0.0662	0.1039	0.1144	420
	Count <DL	1	1	2	7	0	0	11	2	0	1	0	0	0
	Standard Deviation	0.000150	0.000092	0.03110	0.00533	35	0.057	0.0000026	0.002285	0.439	0.0881	0.0497	0.0538	68
	1st Quartile	0.000295	0.000255	0.00645	0.003	345	0.736	5.00E-06	0.00051	0.279	0.0271	0.1235	0.1425	379
	Median	0.00036	0.00029	0.0079	<0.0060	380	0.783	<0.000010	0.00075	0.404	0.117	0.144	0.156	401
	3rd Quartile	0.000415	0.00032	0.01125	0.0036	390	0.822	1.00E-05	0.00159	0.476	0.1785	0.1515	0.1755	452
1-Mains 2North 1M2N	Average	0.00962	0.00884	0.00230	0.00150	461.2	0.950	0.0000050	0.000164	2.96	2.72	0.302	0.316	256
	Count	8	8	8	8	8	8	8	8	8	8	8	8	8
	Minimum	0.00644	0.00675	<0.0030	<0.0030	420	0.742	<0.000010	<0.00020	1.42	1.10	0.162	0.174	156
	Maximum	0.0198	0.0131	0.0040	<0.0030	490	1.05	<0.000010	0.00061	3.86	3.51	0.345	0.368	305
	Geometric Mean	0.00901	0.00856	0.00208	0.00150	460.7	0.946	0.0000050	0.000125	2.86	2.55	0.295	0.309	252
	Count <DL	0	0	6	8	0	0	8	7	0	0	0	0	0
	Standard Deviation	0.00434	0.00253	0.00114	0.00000	23.0	0.090	0.0000000	0.000180	0.71	0.88	0.058	0.060	43
	1st Quartile	0.00741	0.00716	0.0015	0.0015	455	0.955	5.00E-06	0.0001	2.92	2.54	0.307	0.311	256
	Median	0.0079	0.00726	0.0015	0.0015	460	0.968	5.00E-06	0.0001	3.02	3.07	0.321	0.336	265
	3rd Quartile	0.00966	0.01075	0.00322	0.0015	480	0.981	5.00E-06	0.0001	3.24	3.22	0.326	0.344	276
5 Mains 2North 5M#2	Average	0.00649	0.00676	0.00203	0.00494	547.0	0.886	0.0000050	0.000145	0.765	0.693	0.140	0.147	180.3
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00547	0.00568	<0.0030	<0.0030	500	0.800	<0.000010	<0.00020	0.633	0.633	0.131	0.135	168
	Maximum	0.00702	0.00864	0.0035	0.0311	580	0.959	<0.000010	0.00040	1.03	0.842	0.152	0.157	195
	Geometric Mean	0.00648	0.00672	0.00189	0.00246	546.5	0.885	0.0000050	0.000126	0.756	0.691	0.139	0.147	180.1
	Count <DL	0	0	8	7	0	0	10	8	0	0	0	0	0
	Standard Deviation	0.00047	0.00080	0.00086	0.00925	24.5	0.057	0.0000000	0.000101	0.123	0.063	0.008	0.006	8.7
	1st Quartile	0.00623	0.0064	0.0015	0.0015	540	0.853	5.00E-06	0.0001	0.661	0.66	0.134	0.146	174.2
	Median	0.00662	0.00646	0.0015	0.0015	550	0.888	5.00E-06	0.0001	0.761	0.669	0.136	0.148	178.5
	3rd Quartile	0.0068	0.00705	0.00262	0.00322	557.5	0.931	5.00E-06	0.0001	0.831	0.72	0.146	0.15	187.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
2 North Portal Sump 2NPS E283433	Average	204.8	0.0039	0.00382	7.45	0.000153	0.000167	296.4	789	0.000092	0.00545	0.00525			
	Count	12	12	12	12	12	12	12	11	12	12	12			
	Minimum	20.7	0.0013	<0.0020	7.07	<0.00020	<0.00020	62.9	180	<0.00010	<0.0050	<0.0050			
	Maximum	243	0.0148	0.0154	7.97	0.00024	<0.00040	382	1000	0.00015	0.019	0.018			
	Geometric Mean	181.4	0.0030	0.00284	7.44	0.000144	0.000159	276.5	728	0.000087	0.00442	0.00442			
	Count <DL	0	0	2	0	11	12	0	0	11	9	11			
	Standard Deviation	60.2	0.0037	0.00386	0.32	0.000057	0.000049	79.1	244	0.000029	0.00461	0.00419			
	1st Quartile	204.5	0.0017	0.00175	7.2	0.0001	0.000137	295.2	745	8.80E-05	0.0025	0.0025			
	Median	223	0.0028	0.0028	7.36	0.00015	0.0002	302.5	840	0.0001	0.005	0.005			
	3rd Quartile	232.5	0.004	0.0041	7.75	0.0002	0.0002	328.5	955	0.0001	0.00528	0.005			
3-Mains 2North 3M2N	Average	328	0.00101	0.00097	7.23	0.000137	0.000145	274.5	775	0.000073	0.00295	0.00364			0.0948
	Count	11	11	11	11	11	11	11	11	11	11	11			11
	Minimum	204	<0.0010	<0.0010	6.97	<0.00020	<0.00020	244	700	<0.00010	<0.0050	<0.0050			<0.015
	Maximum	378	0.0022	0.0023	7.54	0.00041	<0.00040	317	850	<0.00020	<0.010	<0.010			0.13
	Geometric Mean	324	0.00087	0.00086	7.23	0.000121	0.000137	273.4	774	0.000069	0.00284	0.00343			0.0794
	Count <DL	0	7	9	0	10	11	0	0	11	11	11			1
	Standard Deviation	45	0.00058	0.00053	0.21	0.000095	0.000052	25.6	48	0.000026	0.00101	0.00131			0.0374
	1st Quartile	322	0.0005	0.0005	7.06	0.0001	0.0001	252	735	5.00E-05	0.0025	0.0025			0.0785
	Median	336	<0.0020	<0.0020	7.21	<0.00020	<0.00020	269	790	<0.00010	<0.0050	<0.0050			0.1
	3rd Quartile	353	0.0014	0.001	7.36	0.0001	0.0002	294	805	0.0001	0.0025	0.005			0.125
1-Mains 2North 1M2N	Average	273.2	0.00056	0.00050	7.33	0.000288	0.000100	138.5	381	0.000050	0.01944	0.00846			0.21
	Count	8	8	8	8	8	8	8	8	8	8	8			8
	Minimum	233	<0.0010	<0.0010	6.69	<0.00020	<0.00020	74.2	210	<0.00010	<0.0050	<0.0050			0.18
	Maximum	295	<0.0020	<0.0010	7.86	0.00065	<0.00020	171	460	<0.00010	0.098	0.0315			0.22
	Geometric Mean	272.7	0.00055	0.00050	7.32	0.000216	0.000100	134.7	372	0.000050	0.00717	0.00448			0.21
	Count <DL	0	8	8	0	4	8	0	0	8	4	6			0
	Standard Deviation	18.8	0.00018	0.00000	0.42	0.000216	0.000000	31.3	78	0.000000	0.03323	0.01138			0.01
	1st Quartile	269.8	0.0005	0.0005	7.1	0.0001	0.0001	127.5	372	5.00E-05	0.0025	0.0025			0.2
	Median	277	0.0005	0.0005	7.2	0.00024	0.0001	140	390	5.00E-05	0.0039	0.0025			0.22
	3rd Quartile	283.2	0.0005	0.0005	7.75	0.000422	0.0001	163.8	432	5.00E-05	0.01605	0.00718			0.22
5 Mains 2North 5M#2	Average	244.2	0.00074	0.00050	7.61	0.002066	0.000100	57.6	163.0	0.000050	0.00548	0.00250			0.097
	Count	10	10	10	9	10	10	10	10	10	10	10			10
	Minimum	234	<0.0010	<0.0010	7.27	<0.00020	<0.00020	50.0	150	<0.00010	<0.0050	<0.0050			0.088
	Maximum	264	0.0017	<0.0010	7.93	0.00820	<0.00020	67.8	180	<0.00010	0.0121	<0.0050			0.11
	Geometric Mean	244.0	0.00066	0.00050	7.60	0.000783	0.000100	57.3	162.7	0.000050	0.00447	0.00250			0.097
	Count <DL	0	8	10	0	2	10	0	0	10	6	10			0
	Standard Deviation	9.4	0.00042	0.00000	0.27	0.002717	0.000000	6.2	10.6	0.000000	0.00378	0.00000			0.008
	1st Quartile	238.2	0.0005	0.0005	7.36	0.000275	0.0001	52.9	160	5.00E-05	0.0025	0.0025			0.091
	Median	240.5	0.0005	0.0005	7.67	0.00058	0.0001	56.6	160	5.00E-05	0.00375	0.0025			0.094
	3rd Quartile	246.8	0.00088	0.0005	7.88	0.00368	0.0001	60.6	167.5	5.00E-05	0.00688	0.0025			0.1

Notes:

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Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
MW002	Average		0.00219		0.00638	272.5		0.0000213	0.000425		5.07		1.64	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00204		<0.0060	260		<0.000020	<0.00040		4.66		1.49	
	Maximum		0.00228		<0.015	280		<0.000050	<0.0010		5.45		1.80	
	Geometric Mean		0.00219		0.00596	272.4		0.0000199	0.000398		5.06		1.63	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.00011		0.00225	9.6		0.0000075	0.000150		0.33		0.13	
	1st Quartile		0.00215		0.00638	267.5		2.13E-05	0.000425		4.91		1.56	
	Median		0.00222		0.0075	275		2.50E-05	0.0005		5.08		1.62	
	3rd Quartile		0.00226		0.0075	280		2.50E-05	0.0005		5.25		1.69	
MW004	Average		0.00062		0.0288	109.0		0.0000050	0.00112		0.04070		0.0288	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00036		0.0034	81		<0.000010	0.00063		<0.0050		0.0016	
	Maximum		0.00104		0.0992	160		<0.000010	0.00157		0.119		0.0972	
	Geometric Mean		0.00057		0.0106	104.9		0.0000050	0.00105		0.01653		0.0087	
	Count <DL		0		0	0		4	0		1		0	
	Standard Deviation		0.00031		0.0470	36.3		0.0000000	0.00043		0.05399		0.0459	
	1st Quartile		0.0004		0.0043	84		5.00E-06	0.00083		0.00618		0.0024	
	Median		0.00054		0.0063	97.5		5.00E-06	0.00114		0.02065		0.0083	
	3rd Quartile		0.00076		0.0308	122.5		5.00E-06	0.00143		0.05518		0.0347	
QU1009D	Average		0.111		0.00150	176.7		0.0000050	0.000100		0.543		0.0469	
	Count		3		3	3		3	3		3		3	
	Minimum		0.107		<0.0030	170		<0.000010	<0.00020		0.448		0.0421	
	Maximum		0.115		<0.0030	180		<0.000010	<0.00020		0.667		0.0550	
	Geometric Mean		0.111		0.00150	176.6		0.0000050	0.000100		0.535		0.0465	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.004		0.00000	5.8		0.0000000	0.000000		0.112		0.0071	
	1st Quartile		0.11		0.0015	175		5.00E-06	0.0001		0.481		0.0428	
	Median		0.112		<0.0030	180		<0.000010	<0.00020		0.513		0.0435	
	3rd Quartile		0.114		0.0015	180		5.00E-06	0.0001		0.59		0.0492	

Notes:

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Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
MW002	Average	51.2		0.00245	6.65		0.000425	437.5	1225	0.000213		0.0106			
	Count	4		4	4		4	4	4	4		4			
	Minimum	48.4		0.0023	6.51		<0.00040	433	1200	<0.00020		<0.010			
	Maximum	53.4		<0.0050	6.74		<0.0010	442	1300	<0.00050		<0.025			
	Geometric Mean	51.2		0.00245	6.65		0.000398	437.5	1224	0.000199		0.0099			
	Count <DL	0		3	0		4	0	0	4		4			
	Standard Deviation	2.5		0.00010	0.10		0.000150	3.9	50	0.000075		0.0037			
	1st Quartile	49.5		0.00245	6.62		0.000425	435.2	1200	0.000213		0.0106			
	Median	51.6		0.0025	6.68		0.0005	437.5	1200	0.00025		0.0125			
	3rd Quartile	53.2		0.0025	6.72		0.0005	439.8	1225	0.00025		0.0125			
MW004	Average	33.4		0.00112	6.80		0.000100	130.0	355.0	0.000050		0.00442			
	Count	4		4	4		4	4	4	4		4			
	Minimum	23.8		<0.0010	6.63		<0.00020	113	340	<0.00010		<0.0050			
	Maximum	41.9		0.0016	7.03		<0.00020	140	380	<0.00010		0.0067			
	Geometric Mean	32.8		0.00104	6.80		0.000100	129.5	354.7	0.000050		0.00398			
	Count <DL	0		1	0		4	0	0	4		2			
	Standard Deviation	7.6		0.00046	0.18		0.000000	12.3	17.3	0.000000		0.00224			
	1st Quartile	30		0.00102	6.66		0.0001	125	347.5	5.00E-05		0.0025			
	Median	34		0.0012	6.76		0.0001	133.5	350	5.00E-05		0.00425			
	3rd Quartile	37.6		0.0013	6.9		0.0001	138.5	357.5	5.00E-05		0.00618			
QU1009D	Average	34.4		0.00050	7.33		0.000100	22.6	64.0	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	30.4		<0.0010	7.19		<0.00020	20.2	62	<0.00010		<0.0050			
	Maximum	37.6		<0.0010	7.52		<0.00020	26.2	66	<0.00010		<0.0050			
	Geometric Mean	34.3		0.00050	7.33		0.000100	22.5	64.0	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	3.7		0.00000	0.17		0.000000	3.2	2.0	0.000000		0.00000			
	1st Quartile	32.8		0.0005	7.24		0.0001	20.8	63	5.00E-05		0.0025			
	Median	35.2		<0.0010	7.28		<0.00020	21.5	64	<0.00010		<0.0050			
	3rd Quartile	36.4		0.0005	7.4		0.0001	23.8	65	5.00E-05		0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1009S	Average		0.0875		0.00150	136.7		0.0000050	0.000100		4.42		0.368	
	Count		3		3	3		3	3		3		3	
	Minimum		0.0832		<0.0030	130		<0.000010	<0.00020		4.05		0.324	
	Maximum		0.0925		<0.0030	140		<0.000010	<0.00020		4.75		0.394	
	Geometric Mean		0.0874		0.00150	136.6		0.0000050	0.000100		4.41		0.367	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.0047		0.00000	5.8		0.0000000	0.000000		0.35		0.039	
	1st Quartile		0.085		0.0015	135		5.00E-06	0.0001		4.26		0.356	
	Median		0.0867		<0.0030	140		<0.000010	<0.00020		4.47		0.387	
	3rd Quartile		0.0896		0.0015	140		5.00E-06	0.0001		4.61		0.39	
QU0813A	Average		0.365		0.00224	206.0		0.0000050	0.000100		0.205		0.0357	
	Count		5		5	5		5	5		5		5	
	Minimum		0.334		<0.0030	190		<0.000010	<0.00020		0.174		0.0337	
	Maximum		0.400		0.0052	220		<0.000010	<0.00020		0.248		0.0396	
	Geometric Mean		0.364		0.00192	205.7		0.0000050	0.000100		0.204		0.0356	
	Count <DL		0		4	0		5	5		0		0	
	Standard Deviation		0.028		0.00165	11.4		0.0000000	0.000000		0.031		0.0023	
	1st Quartile		0.339		<0.0030	200		<0.000010	<0.00020		0.177		0.0348	
	Median		0.375		<0.0030	210		<0.000010	<0.00020		0.204		0.0348	
	3rd Quartile		0.377		<0.0030	210		<0.000010	<0.00020		0.224		0.0355	
QU0813B	Average		0.530		0.00340	122.0		0.0000050	0.000100		0.235		0.0837	
	Count		5		5	5		5	5		5		5	
	Minimum		0.451		<0.0030	120		<0.000010	<0.00020		0.154		0.0725	
	Maximum		0.564		0.0046	130		<0.000010	<0.00020		0.349		0.0988	
	Geometric Mean		0.528		0.00319	121.9		0.0000050	0.000100		0.224		0.0833	
	Count <DL		0		1	0		5	5		0		0	
	Standard Deviation		0.046		0.00115	4.5		0.0000000	0.000000		0.081		0.0096	
	1st Quartile		0.534		0.0034	120		<0.000010	<0.00020		0.186		0.0798	
	Median		0.546		0.0037	120		<0.000010	<0.00020		0.197		0.0825	
	3rd Quartile		0.555		0.0038	120		<0.000010	<0.00020		0.287		0.0848	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1009S	Average	9.36		0.00050	6.78		0.000100	38.1	99.7	0.000050		0.00250			
	Count	3		3	3		3	3	3	3		3			
	Minimum	8.76		<0.0010	6.68		<0.00020	35.7	99	<0.00010		<0.0050			
	Maximum	10.1		<0.0010	6.96		<0.00020	41.7	100	<0.00010		<0.0050			
	Geometric Mean	9.35		0.00050	6.78		0.000100	38.0	99.7	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	0.68		0.00000	0.16		0.000000	3.2	0.6	0.000000		0.00000			
	1st Quartile	9		0.0005	6.68		0.0001	36.4	99.5	5.00E-05		0.0025			
	Median	9.23		<0.0010	6.69		<0.00020	37	100	<0.00010		<0.0050			
	3rd Quartile	9.66		0.0005	6.82		0.0001	39.4	100	5.00E-05		0.0025			
QU0813A	Average	61.6		0.00050	7.882		0.000100	19.9	55.6	0.000214		0.00250			
	Count	5		5	5		5	5	5	5		5			
	Minimum	58.6		<0.0010	7.51		<0.00020	17.3	46	<0.00010		<0.0050			
	Maximum	65.9		<0.0010	8.908		<0.00020	22.3	66	0.00052		<0.0050			
	Geometric Mean	61.6		0.00050	7.866		0.000100	19.8	55.1	0.000121		0.00250			
	Count <DL	0		5	0		5	0	0	3		5			
	Standard Deviation	2.9		0.00000	0.580		0.000000	1.9	8.1	0.000229		0.00000			
	1st Quartile	59.3		<0.0010	7.62		<0.00020	19	50	<0.00010		<0.0050			
	Median	62		<0.0010	7.63		<0.00020	20	55	<0.00010		<0.0050			
	3rd Quartile	62.3		<0.0010	7.74		<0.00020	20.7	61	0.0004		<0.0050			
QU0813B	Average	27.0		0.00050	7.81		0.000100	23.3	66.4	0.000050		0.00250			
	Count	5		5	5		5	5	5	5		5			
	Minimum	24.7		<0.0010	7.57		<0.00020	11.5	33	<0.00010		<0.0050			
	Maximum	28.5		<0.0010	8		<0.00020	44.1	110	<0.00010		<0.0050			
	Geometric Mean	27.0		0.00050	7.81		0.000100	20.3	60.0	0.000050		0.00250			
	Count <DL	0		5	0		5	0	0	5		5			
	Standard Deviation	1.6		0.00000	0.18		0.000000	13.9	33.0	0.000000		0.00000			
	1st Quartile	26.2		<0.0010	7.74		<0.00020	12.6	44	<0.00010		<0.0050			
	Median	27.6		<0.0010	7.76		<0.00020	17.8	53	<0.00010		<0.0050			
	3rd Quartile	28.2		<0.0010	7.97		<0.00020	30.5	92	<0.00010		<0.0050			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1410	Average		0.1025		0.00638	320.0		0.0000213	0.000425		2.55		1.47	
	Count		4		4	4		4	4		4		4	
	Minimum		0.0959		<0.0060	310		<0.000020	<0.00040		2.40		1.35	
	Maximum		0.108		<0.015	330		<0.000050	<0.0010		2.73		1.56	
	Geometric Mean		0.1024		0.00596	319.9		0.0000199	0.000398		2.55		1.47	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.0052		0.00225	8.2		0.0000075	0.000150		0.14		0.09	
	1st Quartile		0.0997		0.00638	317.5		2.13E-05	0.000425		2.46		1.42	
	Median		0.103		0.0075	320		2.50E-05	0.0005		2.54		1.48	
	3rd Quartile		0.1058		0.0075	322.5		2.50E-05	0.0005		2.63		1.53	
QU1011S	Average		0.00072		0.0042	52.0		0.0000050	0.00031		0.101		0.0281	
	Count		1		1	1		1	1		1		1	
	Minimum		0.00072		0.0042	52		<0.000010	0.00031		0.101		0.0281	
	Maximum		0.00072		0.0042	52		<0.000010	0.00031		0.101		0.0281	
	Geometric Mean		0.00072		0.0042	52.0		0.0000050	0.00031		0.101		0.0281	
	Count <DL		0		0	0		1	0		0		0	
	Standard Deviation		0.00000		0.0000	0.0		0.0000000	0.00000		0.000		0.0000	
	1st Quartile		0.00072		0.0042	52		<0.000010	0.00031		0.101		0.0281	
	Median		0.00072		0.0042	52		<0.000010	0.00031		0.101		0.0281	
	3rd Quartile		0.00072		0.0042	52		<0.000010	0.00031		0.101		0.0281	
QU1011D	Average		0.00425		0.00300	320.0		0.0000100	0.000200		0.0050		0.308	
	Count		1		1	1		1	1		1		1	
	Minimum		0.00425		<0.0060	320		<0.000020	<0.00040		<0.010		0.308	
	Maximum		0.00425		<0.0060	320		<0.000020	<0.00040		<0.010		0.308	
	Geometric Mean		0.00425		0.00300	320.0		0.0000100	0.000200		0.0050		0.308	
	Count <DL		0		1	0		1	1		1		0	
	Standard Deviation		0.00000		0.00000	0.0		0.0000000	0.000000		0.0000		0.000	
	1st Quartile		0.00425		<0.0060	320		<0.000020	<0.00040		<0.010		0.308	
	Median		0.00425		<0.0060	320		<0.000020	<0.00040		<0.010		0.308	
	3rd Quartile		0.00425		<0.0060	320		<0.000020	<0.00040		<0.010		0.308	
QU1013D	Average		0.00096		0.00560	530.0		0.0000050	0.000437		1.079		0.231	
	Count		3		3	3		3	3		3		3	
	Minimum		0.00085		<0.0030	520		<0.000010	<0.00020		0.638		0.158	
	Maximum		0.00106		0.0091	540		<0.000010	0.00111		1.36		0.278	
	Geometric Mean		0.00095		0.00439	529.9		0.0000050	0.000223		1.025		0.224	
	Count <DL		0		1	0		3	2		0		0	
	Standard Deviation		0.00011		0.00384	10.0		0.0000000	0.000583		0.387		0.064	
	1st Quartile		0.0009		0.00385	525		5.00E-06	0.0001		0.939		0.207	
	Median		0.00096		0.0062	530		<0.000010	<0.00020		1.24		0.256	
	3rd Quartile		0.00101		0.00765	535		5.00E-06	0.000605		1.3		0.267	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1410	Average	59.6		0.00213	6.64		0.000425	665.0	1850	0.000213		0.0106			
	Count	4		4	4		4	4	4	4		4			
	Minimum	54.7		<0.0020	6.56		<0.00040	619	1800	<0.00020		<0.010			
	Maximum	62.7		<0.0050	6.71		<0.0010	718	1900	<0.00050		<0.025			
	Geometric Mean	59.5		0.00199	6.64		0.000398	664.0	1849	0.000199		0.0099			
	Count <DL	0		4	0		4	0	0	4		4			
	Standard Deviation	3.4		0.00075	0.07		0.000150	41.5	57	0.000075		0.0037			
	1st Quartile	59		0.00213	6.59		0.000425	643	1800	0.000213		0.0106			
	Median	60.5		0.0025	6.64		0.0005	661.5	1850	0.00025		0.0125			
	3rd Quartile	61.1		0.0025	6.7		0.0005	683.5	1900	0.00025		0.0125			
QU10115	Average	2.01		0.00050	6.36		0.000100	1.50	2.6	0.00011		0.00250			
	Count	1		1	1		1	1	1	1		1			
	Minimum	2.01		<0.0010	6.36		<0.00020	<3.0	2.6	0.00011		<0.0050			
	Maximum	2.01		<0.0010	6.36		<0.00020	<3.0	2.6	0.00011		<0.0050			
	Geometric Mean	2.01		0.00050	6.36		0.000100	1.50	2.6	0.00011		0.00250			
	Count <DL	0		1	0		1	1	0	0		1			
	Standard Deviation	0.00		0.00000	0.00		0.000000	0.00	0.0	0.00000		0.00000			
	1st Quartile	2.01		<0.0010	6.36		<0.00020	<3.0	2.6	0.00011		<0.0050			
	Median	2.01		<0.0010	6.36		<0.00020	<3.0	2.6	0.00011		<0.0050			
	3rd Quartile	2.01		<0.0010	6.36		<0.00020	<3.0	2.6	0.00011		<0.0050			
QU10110	Average	426.0		0.00100	7.12		0.000200	3.00	0.50	0.000100		0.0050			
	Count	1		1	1		1	1	1	1		1			
	Minimum	426		<0.0020	7.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	Maximum	426		<0.0020	7.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	Geometric Mean	426.0		0.00100	7.12		0.000200	3.00	0.50	0.000100		0.0050			
	Count <DL	0		1	0		1	1	1	1		1			
	Standard Deviation	0.0		0.00000	0.00		0.000000	0.00	0.00	0.000000		0.0000			
	1st Quartile	426		<0.0020	7.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	Median	426		<0.0020	7.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			
	3rd Quartile	426		<0.0020	7.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			
QU10130	Average	313.3		0.00050	7.09		0.000100	94.0	240	0.000050		0.00250			
	Count	3		3	4		3	3	3	3		3			
	Minimum	285		<0.0010	7.04		<0.00020	63.0	170	<0.00010		<0.0050			
	Maximum	355		<0.0010	7.16		<0.00020	144	340	<0.00010		<0.0050			
	Geometric Mean	311.9		0.00050	7.09		0.000100	88.0	229	0.000050		0.00250			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	36.9		0.00000	0.06		0.000000	43.7	88	0.000000		0.00000			
	1st Quartile	292.5		0.0005	7.05		0.0001	69	190	5.00E-05		0.0025			
	Median	300		<0.0010	7.08		<0.00020	75.1	210	<0.00010		<0.0050			
	3rd Quartile	327.5		0.0005	7.12		0.0001	109.6	275	5.00E-05		0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1105S	Average		0.0336		0.00150	148		0.0000050	0.000100		0.972		0.0983	
	Count		4		4	4		4	4		4		4	
	Minimum		0.0165		<0.0030	66		<0.000010	<0.00020		0.175		0.0202	
	Maximum		0.0695		<0.0030	370		<0.000010	<0.00020		3.16		0.279	
	Geometric Mean		0.0286		0.00150	111		0.0000050	0.000100		0.454		0.0585	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.0243		0.00000	147		0.0000000	0.000000		1.459		0.1215	
	1st Quartile		0.0204		0.0015	75		5.00E-06	0.0001		0.247		0.0318	
	Median		0.0242		0.0015	79		5.00E-06	0.0001		0.277		0.047	
	3rd Quartile		0.0375		0.0015	151		5.00E-06	0.0001		1.002		0.1134	
QU1105D	Average		0.00241		0.0414	417.5		0.0000213	0.000425		0.0129		0.1050	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00141		<0.015	370		<0.000020	<0.00040		<0.025		0.0805	
	Maximum		0.00301		0.140	460		<0.000050	<0.0010		0.014		0.127	
	Geometric Mean		0.00232		0.0171	416.2		0.0000199	0.000398		0.0129		0.1033	
	Count <DL		0		2	0		4	4		3		0	
	Standard Deviation		0.00069		0.0657	37.7		0.0000075	0.000150		0.0007		0.0221	
	1st Quartile		0.00229		0.0075	400		2.13E-05	0.000425		0.0125		0.0897	
	Median		0.0026		0.0092	420		2.50E-05	0.0005		0.0125		0.1064	
	3rd Quartile		0.00272		0.0431	437.5		2.50E-05	0.0005		0.0129		0.1218	
QU1109S	Average		0.0942		0.00480	490.0		0.0000083	0.000167		0.0720		0.0210	
	Count		3		3	3		3	3		3		3	
	Minimum		0.0789		<0.0030	480		<0.000010	<0.00020		0.0409		0.0189	
	Maximum		0.119		0.0099	510		<0.000020	<0.00040		0.098		0.0240	
	Geometric Mean		0.0926		0.00354	489.8		0.0000079	0.000159		0.0676		0.0209	
	Count <DL		0		2	0		3	3		0		0	
	Standard Deviation		0.0217		0.00448	17.3		0.0000029	0.000058		0.0289		0.0027	
	1st Quartile		0.0818		0.00225	480		7.50E-06	0.00015		0.059		0.0195	
	Median		0.0847		<0.0060	480		<0.000020	<0.00040		0.077		0.0202	
	3rd Quartile		0.1018		0.00645	495		1.00E-05	0.0002		0.0875		0.0221	
QU1109M	Average		0.00370		0.00300	483.3		0.0000100	0.000200		5.62		0.239	
	Count		3		3	3		3	3		3		3	
	Minimum		0.00168		<0.0060	460		<0.000020	<0.00040		4.99		0.185	
	Maximum		0.00484		<0.0060	500		<0.000020	<0.00040		6.62		0.323	
	Geometric Mean		0.00334		0.00300	483.0		0.0000100	0.000200		5.58		0.232	
	Count <DL		0		3	0		3	3		0		0	
	Standard Deviation		0.00175		0.00000	20.8		0.0000000	0.000000		0.87		0.074	
	1st Quartile		0.00313		0.003	475		1.00E-05	0.0002		5.12		0.196	
	Median		0.00458		<0.0060	490		<0.000020	<0.00040		5.26		0.208	
	3rd Quartile		0.00471		0.003	495		1.00E-05	0.0002		5.94		0.266	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1105S	Average	56.4		0.00050	7.22		0.000128	26.8	74	0.000308		0.00250			
	Count	4		4	4		4	4	4	4		4			
	Minimum	16.6		<0.0010	6.94		<0.00020	6.5	18	<0.00010		<0.0050			
	Maximum	160		<0.0010	7.39		0.00021	67.5	190	0.00101		<0.0050			
	Geometric Mean	35.5		0.00050	7.21		0.000120	18.4	51	0.000132		0.00250			
	Count <DL	0		4	0		3	0	0	2		4			
	Standard Deviation	69.2		0.00000	0.20		0.000055	27.7	78	0.000469		0.00000			
	1st Quartile	21.8		0.0005	7.15		0.0001	11.1	31	5.00E-05		0.0025			
	Median	24.5		0.0005	7.26		0.0001	16.6	45	8.50E-05		0.0025			
	3rd Quartile	59		0.0005	7.33		0.000128	32.2	88	0.000343		0.0025			
QU1105D	Average	870		0.00213	7.71		0.000425	426	162	0.0310		0.0106			
	Count	4		4	4		4	4	4	4		4			
	Minimum	792		<0.0020	7.64		<0.00040	122	100	0.0121		<0.010			
	Maximum	949		<0.0050	7.78		<0.0010	1200	220	0.0480		<0.025			
	Geometric Mean	868		0.00199	7.71		0.000398	266	156	0.0274		0.0099			
	Count <DL	0		4	0		4	0	0	0		4			
	Standard Deviation	74		0.00075	0.06		0.000150	518	49	0.0157		0.0037			
	1st Quartile	816		0.00213	7.67		0.000425	135	145	0.0218		0.0106			
	Median	870		0.0025	7.72		0.0005	192	165	0.0319		0.0125			
	3rd Quartile	925		0.0025	7.76		0.0005	483	182	0.041		0.0125			
QU1109S	Average	276.3		0.00083	7.86		0.000167	50.8	120.0	0.00055		0.00417			
	Count	3		3	3		3	3	3	3		3			
	Minimum	259		<0.0010	7.65		<0.00020	42.9	100	0.00046		<0.0050			
	Maximum	292		<0.0020	7.96		<0.00040	64.7	140	0.00060		<0.010			
	Geometric Mean	276.0		0.00079	7.86		0.000159	49.9	118.9	0.00055		0.00397			
	Count <DL	0		3	0		3	0	0	0		3			
	Standard Deviation	16.6		0.00029	0.18		0.000058	12.1	20.0	0.00008		0.00144			
	1st Quartile	268.5		0.00075	7.8		0.00015	43.8	110	0.00053		0.00375			
	Median	278		<0.0020	7.96		<0.00040	44.8	120	0.00059		<0.010			
	3rd Quartile	285		0.001	7.96		0.0002	54.8	130	0.0006		0.005			
QU1109M	Average	345.7		0.00100	7.01		0.000200	177.0	483.3	0.000100		0.0050			
	Count	3		3	3		3	3	3	3		3			
	Minimum	335		<0.0020	6.79		<0.00040	172	450	<0.00020		<0.010			
	Maximum	356		<0.0020	7.15		<0.00040	186	540	<0.00020		<0.010			
	Geometric Mean	345.6		0.00100	7.01		0.000200	176.9	481.7	0.000100		0.0050			
	Count <DL	0		3	0		3	0	0	3		3			
	Standard Deviation	10.5		0.00000	0.20		0.000000	7.8	49.3	0.000000		0.0000			
	1st Quartile	340.5		0.001	6.94		0.0002	172.5	455	0.0001		0.005			
	Median	346		<0.0020	7.1		<0.00040	173	460	<0.00020		<0.010			
	3rd Quartile	351		0.001	7.12		0.0002	179.5	500	0.0001		0.005			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0821G5	Average		0.230		0.00238	192.5		0.0000050	0.000100		0.608		0.0519	
	Count		4		4	4		4	4		4		4	
	Minimum		0.187		<0.0030	180		<0.000010	<0.00020		0.340		0.0297	
	Maximum		0.256		0.0033	200		<0.000010	<0.00020		1.14		0.0702	
	Geometric Mean		0.228		0.00221	192.3		0.0000050	0.000100		0.539		0.0492	
	Count <DL		0		2	0		4	4		0		0	
	Standard Deviation		0.030		0.00101	9.6		0.0000000	0.000000		0.369		0.0184	
	1st Quartile		0.218		0.0015	187.5		5.00E-06	0.0001		0.37		0.0407	
	Median		0.238		0.00235	195		5.00E-06	0.0001		0.476		0.0539	
	3rd Quartile		0.248		0.00322	200		5.00E-06	0.0001		0.715		0.0651	
QU0821GD	Average		0.189		0.0075	197.5		0.0000250	0.00050		1.510		0.1240	
	Count		4		4	4		4	4		4		4	
	Minimum		0.164		<0.015	190		<0.000050	<0.0010		0.908		0.0469	
	Maximum		0.226		<0.015	200		<0.000050	<0.0010		1.94		0.161	
	Geometric Mean		0.187		0.0075	197.5		0.0000250	0.00050		1.454		0.1115	
	Count <DL		0		4	0		4	4		0		0	
	Standard Deviation		0.027		0.0000	5.0		0.0000000	0.00000		0.440		0.0536	
	1st Quartile		0.174		0.0075	197.5		2.50E-05	0.0005		1.352		0.1077	
	Median		0.182		0.0075	200		2.50E-05	0.0005		1.595		0.144	
	3rd Quartile		0.197		0.0075	200		2.50E-05	0.0005		1.752		0.1602	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0821GS	Average	139.0		0.00050	7.90		0.000100	1.50	0.50	0.000128		0.00250			
	Count	4		4	4		4	4	4	4		4			
	Minimum	105		<0.0010	7.83		<0.00020	<3.0	<1.0	<0.00010		<0.0050			
	Maximum	176		<0.0010	7.98		<0.00020	<3.0	<1.0	0.00030		<0.0050			
	Geometric Mean	135.0		0.00050	7.90		0.000100	1.50	0.50	0.000095		0.00250			
	Count <DL	0		4	0		4	4	4	2		4			
	Standard Deviation	38.3		0.00000	0.06		0.000000	0.00	0.00	0.000118		0.00000			
	1st Quartile	106.5		0.0005	7.87		0.0001	1.5	0.5	5.00E-05		0.0025			
	Median	137.5		0.0005	7.9		0.0001	1.5	0.5	8.00E-05		0.0025			
	3rd Quartile	170		0.0005	7.94		0.0001	1.5	0.5	0.000157		0.0025			
QU0821GD	Average	638		0.00250	7.39		0.00050	7.5	0.50	0.000495		0.0125			
	Count	4		4	4		4	4	4	4		4			
	Minimum	516		<0.0050	7.27		<0.0010	<15	<1.0	<0.00050		<0.025			
	Maximum	771		<0.0050	7.48		<0.0010	<15	<1.0	0.00123		<0.025			
	Geometric Mean	630		0.00250	7.39		0.00050	7.5	0.50	0.000372		0.0125			
	Count <DL	0		4	0		4	4	4	3		4			
	Standard Deviation	113		0.00000	0.11		0.00000	0.0	0.00	0.000490		0.0000			
	1st Quartile	563		0.0025	7.32		0.0005	7.5	0.5	0.00025		0.0125			
	Median	633		0.0025	7.4		0.0005	7.5	0.5	0.00025		0.0125			
	3rd Quartile	708		0.0025	7.48		0.0005	7.5	0.5	0.000495		0.0125			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seepage (S)	Average	0.0567	0.0608	0.0170	0.0176	386	1.355	0.0000059	0.000293	0.125	0.0851	0.0215	0.0142	86.7
	Count	11	11	11	11	11	11	11	11	11	11	11	11	11
	Minimum	0.0247	0.0249	0.0061	<0.0060	160	0.868	<0.000010	<0.00020	0.068	0.0575	0.0109	0.0068	65.9
	Maximum	0.0772	0.0799	0.0585	0.0524	500	1.69	<0.000020	0.00066	0.225	0.127	0.0506	0.0235	112
	Geometric Mean	0.0540	0.0577	0.0130	0.00847	367	1.323	0.0000057	0.000255	0.117	0.0824	0.0196	0.0132	85.8
	Count <DL	0	0	1	1	0	0	11	3	0	0	0	0	0
	Standard Deviation	0.0167	0.0179	0.0165	0.01379	112	0.297	0.0000020	0.000159	0.047	0.0228	0.0111	0.0055	13.7
	1st Quartile	0.048	0.052	0.0088	0.00555	320	1.145	5.00E-06	0.00021	0.094	0.0686	0.0152	0.0097	78.8
	Median	0.0604	0.0659	0.0109	0.008	400	1.47	<0.000010	0.00027	0.106	0.0801	0.0173	0.0157	86.6
	3rd Quartile	0.0682	0.0741	0.0126	0.01065	480	1.61	5.00E-06	0.000335	0.151	0.1001	0.0242	0.0178	95.8
Seepage 2A (S2A)	Average	0.0468	0.04638	0.1256	0.0164	164	0.414	0.0000050	0.000294	0.433	0.3531	0.1402	0.1429	84.5
	Count	11	11	11	11	11	11	11	11	11	11	11	11	11
	Minimum	0.0108	0.00794	0.0051	0.0034	73	0.181	<0.000010	<0.00020	0.170	0.0680	0.0233	0.0157	50.4
	Maximum	0.117	0.110	0.538	0.0815	240	0.659	<0.000010	0.00081	0.898	0.852	0.380	0.399	126
	Geometric Mean	0.0352	0.03162	0.0356	0.0099	153	0.383	0.0000050	0.000229	0.376	0.2487	0.0891	0.0803	80.6
	Count <DL	0	0	0	0	0	0	11	4	0	0	0	0	0
	Standard Deviation	0.0358	0.03860	0.1972	0.0226	60	0.161	0.0000000	0.000222	0.243	0.2985	0.1293	0.1399	26.8
	1st Quartile	0.0219	0.0155	0.009	0.0051	130	0.302	5.00E-06	0.0001	0.231	0.126	0.0371	0.0306	61.4
	Median	0.0318	0.0312	0.0179	0.0071	160	0.384	<0.000010	0.00024	0.344	0.21	0.0887	0.0886	90.7
	3rd Quartile	0.0702	0.0752	0.1135	0.0166	220	0.536	5.00E-06	0.00039	0.57	0.542	0.224	0.2305	101.6
Seepage 2B (S2B)	Average	0.0263	0.0260	0.0107	0.0046	220.0	0.511	0.0000050	0.000100	0.183	0.155	0.0559	0.0583	127.0
	Count	3	3	3	3	3	3	3	3	3	3	3	3	3
	Minimum	0.0249	0.0247	0.0088	0.0039	210	0.491	<0.000010	<0.00020	0.169	0.152	0.0540	0.0543	120
	Maximum	0.0288	0.0270	0.0117	0.0054	230	0.539	<0.000010	<0.00020	0.202	0.160	0.0570	0.0642	132
	Geometric Mean	0.0262	0.0260	0.0106	0.0045	219.8	0.511	0.0000050	0.000100	0.183	0.155	0.0559	0.0582	126.9
	Count <DL	0	0	0	0	0	0	3	3	0	0	0	0	0
	Standard Deviation	0.0022	0.0012	0.0017	0.0008	10.0	0.025	0.0000000	0.000000	0.017	0.005	0.0017	0.0052	6.2
	1st Quartile	0.025	0.0255	0.0102	0.0042	215	0.497	5.00E-06	0.0001	0.174	0.152	0.0554	0.0554	124.5
	Median	0.0252	0.0263	0.0117	0.0044	220	0.503	<0.000010	<0.00020	0.179	0.152	0.0568	0.0565	129
	3rd Quartile	0.027	0.0266	0.0117	0.0049	225	0.521	5.00E-06	0.0001	0.19	0.156	0.0569	0.0604	130.5
Seep 2 Upstream (S2US)	Average	0.0418	0.0466	0.0221	0.0060	230.0	0.475	0.0000050	0.000100	0.208	0.2000	0.0442	0.0468	137.0
	Count	2	2	2	2	2	2	2	2	2	2	2	2	2
	Minimum	0.0340	0.0369	0.0121	0.0049	200	0.430	<0.000010	<0.00020	0.063	0.0521	0.0267	0.0298	130
	Maximum	0.0496	0.0563	0.0321	0.0071	260	0.519	<0.000010	<0.00020	0.354	0.348	0.0618	0.0639	144
	Geometric Mean	0.0411	0.0456	0.0197	0.0059	228.0	0.472	0.0000050	0.000100	0.149	0.1347	0.0406	0.0436	136.8
	Count <DL	0	0	0	0	0	0	2	2	0	0	0	0	0
	Standard Deviation	0.0110	0.0137	0.0141	0.0016	42.4	0.063	0.0000000	0.000000	0.206	0.2092	0.0248	0.0241	9.9
	1st Quartile	0.0379	0.0418	0.0171	0.0054	215	0.452	5.00E-06	0.0001	0.136	0.1261	0.0355	0.0383	133.5
	Median	0.0418	0.0466	0.0221	0.006	230	0.475	5.00E-06	0.0001	0.208	0.2	0.0442	0.0468	137
	3rd Quartile	0.0457	0.0514	0.0271	0.0066	245	0.497	5.00E-06	0.0001	0.281	0.274	0.053	0.0554	140.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 51 Statistics 2022 to 2023 30 Page(s)

2023 - 2024	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seepage (S)	Average	227.3	0.00213	0.00059	7.87	0.000165	0.000118	53.9	151.8	0.000059	0.00386	0.00340	0.0130	0.1214	0.0214
	Count	11	11	11	11	11	11	11	11	11	11	11	3	11	11
	Minimum	89.1	<0.0010	<0.0010	7.48	<0.00020	<0.00020	41.2	120	<0.00010	<0.0050	<0.0050	0.0041	<0.020	<0.015
	Maximum	296	0.0174	<0.0020	8.36	<0.0010	<0.00040	62.2	170	<0.00020	<0.025	0.0074	0.025	0.248	0.068
	Geometric Mean	215.4	0.00078	0.00057	7.87	0.000141	0.000113	53.5	151.0	0.000057	0.00328	0.00313	0.0101	0.0934	0.0158
	Count <DL	0	10	11	0	10	11	0	0	11	11	10	0	1	5
	Standard Deviation	68.2	0.00507	0.00020	0.28	0.000121	0.000040	6.5	16.0	0.000020	0.00303	0.00166	0.0108	0.0755	0.0188
	1st Quartile	183.5	0.0005	0.0005	7.66	0.0001	0.00001	49.4	145	5.00E-05	0.0025	0.0025	0.007	0.066	0.0075
	Median	237	<0.0010	<0.0010	7.9	<0.00020	<0.00020	55.2	160	<0.00010	<0.0050	<0.0050	0.01	0.13	0.017
	3rd Quartile	285.5	0.00075	0.0005	8.04	0.0002	0.0001	58.4	160	5.00E-05	0.00375	0.00375	0.0175	0.1435	0.026
Seepage 2A (S2A)	Average	72.7	0.00101	0.00050	7.20	0.000100	0.000100	26.7	74	0.000050	0.00250	0.00250	0.0143	0.1070	0.0715
	Count	11	11	11	11	11	11	11	11	11	11	11	3	10	11
	Minimum	21.3	<0.0010	<0.0010	6.61	<0.00020	<0.00020	8.9	22	<0.00010	<0.0050	<0.0050	0.0059	<0.020	<0.015
	Maximum	127	0.0061	<0.0010	7.73	<0.00020	<0.00020	47.5	130	<0.00010	<0.0050	<0.0050	0.024	0.556	0.16
	Geometric Mean	62.6	0.00063	0.00050	7.19	0.000100	0.000100	23.2	65	0.000050	0.00250	0.00250	0.0123	0.0454	0.0468
	Count <DL	0	10	11	0	11	11	0	0	11	11	11	0	3	2
	Standard Deviation	37.8	0.00169	0.00000	0.37	0.000000	0.000000	13.5	37	0.000000	0.00000	0.00000	0.0091	0.1680	0.0557
	1st Quartile	47.8	0.0005	0.0005	6.9	0.0001	0.0001	17.3	50	5.00E-05	0.0025	0.0025	0.0094	0.0148	0.0255
	Median	68.7	<0.0010	<0.0010	7.33	<0.00020	<0.00020	25.7	65	<0.00010	<0.0050	<0.0050	0.013	0.0385	0.053
	3rd Quartile	108.5	0.0005	0.0005	7.45	0.0001	0.0001	38.8	110	5.00E-05	0.0025	0.0025	0.0185	0.104	0.11
Seepage 2B (S2B)	Average	78.6	0.00050	0.00050	7.45	0.000100	0.000100	24.5	68.3	0.000050	0.00250	0.00250	0.0056	0.059	0.052
	Count	3	3	3	3	3	3	3	3	3	3	3	1	3	3
	Minimum	73.9	<0.0010	<0.0010	7.16	<0.00020	<0.00020	19.9	56	<0.00010	<0.0050	<0.0050	0.0056	0.052	0.045
	Maximum	82.2	<0.0010	<0.0010	7.62	<0.00020	<0.00020	30.0	80	<0.00010	<0.0050	<0.0050	0.0056	0.069	0.059
	Geometric Mean	78.5	0.00050	0.00050	7.44	0.000100	0.000100	24.2	67.6	0.000050	0.00250	0.00250	0.0056	0.058	0.051
	Count <DL	0	3	3	0	3	3	0	0	3	3	3	0	0	0
	Standard Deviation	4.3	0.00000	0.00000	0.25	0.000000	0.000000	5.1	12.0	0.000000	0.00000	0.00000	0.0000	0.009	0.007
	1st Quartile	76.8	0.0005	0.0005	7.36	0.0001	0.0001	21.8	62.5	5.00E-05	0.0025	0.0025	0.0056	0.054	0.048
	Median	79.7	<0.0010	<0.0010	7.56	<0.00020	<0.00020	23.7	69	<0.00010	<0.0050	<0.0050	0.0056	0.055	0.051
	3rd Quartile	81	0.0005	0.0005	7.59	0.0001	0.0001	26.8	74.5	5.00E-05	0.0025	0.0025	0.0056	0.062	0.055
Seep 2 Upstream (S2US)	Average	77.2	0.00050	0.00050	7.28	0.000100	0.000100	26.0	74.5	0.000050	0.00250	0.00470		0.0470	0.103
	Count	2	2	2	2	2	2	2	2	2	2	2		2	2
	Minimum	66.7	<0.0010	<0.0010	7.16	<0.00020	<0.00020	24.2	68	<0.00010	<0.0050	<0.0050		<0.020	0.045
	Maximum	87.6	<0.0010	<0.0010	7.4	<0.00020	<0.00020	27.8	81	<0.00010	<0.0050	0.0069		0.084	0.16
	Geometric Mean	76.4	0.00050	0.00050	7.28	0.000100	0.000100	25.9	74.2	0.000050	0.00250	0.00415		0.0290	0.085
	Count <DL	0	2	2	0	2	2	0	0	2	2	1		1	0
	Standard Deviation	14.8	0.00000	0.00000	0.17	0.000000	0.000000	2.5	9.2	0.000000	0.00000	0.00311		0.0523	0.081
	1st Quartile	71.9	0.0005	0.0005	7.22	0.0001	0.0001	25.1	71.2	5.00E-05	0.0025	0.0036		0.0285	0.074
	Median	77.2	0.0005	0.0005	7.28	0.0001	0.0001	26	74.5	5.00E-05	0.0025	0.0047		0.047	0.103
	3rd Quartile	82.4	0.0005	0.0005	7.34	0.0001	0.0001	26.9	77.8	5.00E-05	0.0025	0.0058		0.0655	0.131

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics.

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.000109	0.000107	0.0236	0.0187	20.5	0.0250	0.0000050	0.00056	0.0202	0.0118	0.00186	0.00063	17.8
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0147	0.0113	16	<0.050	<0.000010	0.00046	<0.010	0.0064	<0.0010	<0.0010	14.3
	Maximum	0.00016	0.00018	0.0806	0.0382	23	<0.050	<0.000010	0.00064	0.092	0.0234	0.0107	0.0013	19.7
	Geometric Mean	0.000100	0.000097	0.0209	0.0175	20.4	0.0250	0.0000050	0.00056	0.0156	0.0109	0.00127	0.00059	17.7
	Count <DL	4	5	0	0	0	15	15	0	2	0	4	12	0
	Standard Deviation	0.000040	0.000047	0.0166	0.0078	2.3	0.0000	0.0000000	0.00006	0.0206	0.0050	0.00250	0.00027	1.6
	1st Quartile	7.50E-05	5.00E-05	0.0161	0.0148	19	0.025	5.00E-06	0.00053	0.0125	0.0081	0.0008	0.0005	17.2
	Median	0.00012	0.00012	0.0183	0.016	21	<0.050	<0.000010	0.00054	0.016	0.011	0.0013	<0.0010	18.2
	3rd Quartile	0.000135	0.00013	0.0214	0.0196	22	0.025	5.00E-06	0.00062	0.0185	0.0134	0.0016	0.0005	18.9
Mid Quinsam Lake Outlet WB E0900504	Average	0.00017	0.00017	0.0149	0.0125	37.0	0.0271	0.0000050	0.00047	0.034	0.0232	0.0075	0.0033	30.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00011	0.00012	0.0073	0.0053	33	<0.050	<0.000010	0.00030	0.022	0.0182	0.0031	0.0012	26.5
	Maximum	0.00026	0.00021	0.0221	0.0178	45	0.057	<0.000010	0.00057	0.064	0.0327	0.0165	0.0088	35.6
	Geometric Mean	0.00016	0.00016	0.0144	0.0117	36.9	0.0264	0.0000050	0.00046	0.033	0.0228	0.0066	0.0030	30.4
	Count <DL	0	0	0	0	0	14	15	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00003	0.0041	0.0042	3.4	0.0083	0.0000000	0.00008	0.011	0.0049	0.0040	0.0019	2.8
	1st Quartile	0.00014	0.00014	0.0126	0.0099	35	0.025	5.00E-06	0.00042	0.028	0.0194	0.0037	0.0024	28.6
	Median	0.00017	0.00017	0.0142	0.0129	36	<0.050	<0.000010	0.0005	0.03	0.0212	0.0075	0.0026	30.5
	3rd Quartile	0.00018	0.00019	0.0178	0.0154	38	0.025	5.00E-06	0.00052	0.037	0.0271	0.0088	0.0038	32.4
Quinsam River Downstream 1 QRDS1 E286930	Average	0.00056	0.000532	0.0233	0.0139	37.3	0.0358	0.00000508	0.000503	0.048	0.0261	0.0053	0.00187	32.2
	Count	19	19	19	19	19	19	19	19	19	19	19	19	19
	Minimum	0.00028	0.00032	0.0107	0.0056	30	<0.050	<0.0000050	0.00038	0.027	0.0181	0.0026	0.0010	26.7
	Maximum	0.00078	0.00069	0.0534	0.0268	45	0.059	0.000014	0.000721	0.090	0.0442	0.0120	0.0037	48.6
	Geometric Mean	0.00054	0.000520	0.0210	0.0128	37.0	0.0332	0.00000473	0.000497	0.046	0.0255	0.0048	0.00177	31.9
	Count <DL	0	0	0	0	0	12	18	0	0	0	0	0	0
	Standard Deviation	0.00013	0.000110	0.0120	0.0055	4.3	0.0146	0.00000235	0.000082	0.018	0.0066	0.0024	0.00068	4.8
	1st Quartile	0.00047	0.000455	0.016	0.0103	34.5	0.025	5.00E-06	0.000445	0.036	0.0223	0.0034	0.0016	30
	Median	0.00056	0.00053	0.0193	0.0137	37	<0.050	<0.000010	0.00051	0.041	0.0248	0.0051	0.0017	30.9
	3rd Quartile	0.00066	0.00062	0.0258	0.0176	39	0.052	5.00E-06	0.00053	0.054	0.0271	0.006	0.0019	33.8
7 South Quinsam River 7SQR E292113	Average	0.00060	0.000571	0.0266	0.0164	36.7	0.0403	0.00000461	0.000508	0.096	0.0653	0.0064	0.00534	32.2
	Count	19	19	19	19	19	19	19	19	19	19	19	19	19
	Minimum	0.00038	0.00041	0.0148	0.0086	29	<0.050	<0.0000050	0.00043	0.067	0.0409	0.0041	0.0035	26.7
	Maximum	0.00086	0.00078	0.0459	0.0306	45	0.072	<0.000010	0.00067	0.144	0.106	0.0100	0.00802	38.9
	Geometric Mean	0.00058	0.000560	0.0254	0.0152	36.4	0.0370	0.00000448	0.000505	0.094	0.0631	0.0062	0.00520	32.0
	Count <DL	0	0	0	0	0	10	19	0	0	0	0	0	0
	Standard Deviation	0.00014	0.000117	0.0084	0.0067	5.0	0.0171	0.00000094	0.000061	0.024	0.0180	0.0017	0.00126	3.5
	1st Quartile	0.00052	0.00047	0.0216	0.0107	31.5	0.025	5.00E-06	0.000465	0.074	0.0532	0.0051	0.00426	29
	Median	0.00055	0.00054	0.0248	0.0145	37	<0.050	<0.000010	0.000497	0.093	0.0642	0.0063	0.0056	32.1
	3rd Quartile	0.00068	0.00067	0.0312	0.0202	40	0.055	5.00E-06	0.000535	0.112	0.074	0.0074	0.00625	34.2
Iron River & Quinsam River IRQR E299256	Average	0.00070	0.00071	0.0299	0.0209	36.7	0.0321	0.0000050	0.00056	0.084	0.0549	0.0049	0.0042	30.9
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00054	0.00055	0.0141	0.0089	28	<0.050	<0.000010	0.00045	0.05	0.0329	0.0030	0.0026	25.9
	Maximum	0.00091	0.00085	0.0748	0.0530	44	0.054	<0.000010	0.00077	0.125	0.0746	0.0075	0.0063	36.8
	Geometric Mean	0.00069	0.00071	0.0268	0.0177	36.4	0.0303	0.0000050	0.00055	0.080	0.0527	0.0047	0.0040	30.7
	Count <DL	0	0	0	0	0	11	15	0	0	0	0	0	0
	Standard Deviation	0.00011	0.00009	0.0162	0.0135	4.8	0.0122	0.0000000	0.00011	0.025	0.0152	0.0016	0.0014	3.0
	1st Quartile	0.00066	0.00064	0.02	0.0105	33.5	0.025	5.00E-06	0.00048	0.058	0.0375	0.0032	0.0028	28.9
	Median	0.00067	0.00072	0.024	0.0167	39	<0.050	<0.000010	0.00054	0.087	0.0599	0.0051	0.0039	30.3
	3rd Quartile	0.00075	0.00076	0.0362	0.0251	40	0.0375	5.00E-06	0.00058	0.104	0.0656	0.0058	0.0053	32.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Quinsam River at Argonaut Road WA E0126402	Average	0.690	0.00050	0.00050	7.64	0.000100	0.000100	1.50	0.79	0.000050	0.00250	0.00250		0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15		1	
	Minimum	0.613	<0.0010	<0.0010	7.15	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	0.857	<0.0010	<0.0010	7.96	<0.00020	<0.00020	<3.0	1.5	<0.00010	<0.0050	<0.0050		<0.020	
	Geometric Mean	0.686	0.00050	0.00050	7.64	0.000100	0.000100	1.50	0.71	0.000050	0.00250	0.00250		0.0100	
	Count <DL	0	15	15	0	15	15	15	9	15	15	15		1	
	Standard Deviation	0.073	0.00000	0.00000	0.21	0.000000	0.000000	0.00	0.38	0.000000	0.00000	0.00000		0.0000	
	1st Quartile	0.651	0.0005	0.0005	7.52	0.0001	0.0001	1.5	0.5	5.00E-05	0.0025	0.0025		<0.020	
	Median	0.669	<0.0010	<0.0010	7.67	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050		<0.020	
	3rd Quartile	0.698	0.0005	0.0005	7.78	0.0001	0.0001	1.5	1.15	5.00E-05	0.0025	0.0025		<0.020	
Mid Quinsam Lake Outlet WB E0900504	Average	11.16	0.00050	0.00050	7.67	0.000100	0.000100	7.5	21.6	0.000050	0.00250	0.00250		0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15		1	
	Minimum	8.05	<0.0010	<0.0010	7.36	<0.00020	<0.00020	5.1	14	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	14.4	<0.0010	<0.0010	8.16	<0.00020	<0.00020	9.3	27	<0.00010	<0.0050	<0.0050		<0.020	
	Geometric Mean	11.03	0.00050	0.00050	7.67	0.000100	0.000100	7.4	21.2	0.000050	0.00250	0.00250		0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15		1	
	Standard Deviation	1.73	0.00000	0.00000	0.25	0.000000	0.000000	1.4	4.0	0.000000	0.00000	0.00000		0.0000	
	1st Quartile	9.78	0.0005	0.0005	7.48	0.0001	0.0001	6.8	19	5.00E-05	0.0025	0.0025		<0.020	
	Median	11.4	<0.0010	<0.0010	7.6	<0.00020	<0.00020	7.9	22	<0.00010	<0.0050	<0.0050		<0.020	
	3rd Quartile	12.05	0.0005	0.0005	7.94	0.0001	0.0001	8.6	24	5.00E-05	0.0025	0.0025		<0.020	
Quinsam River Downstream 1 QRDS1 E286930	Average	11.21	0.00050	0.000476	7.70	0.000100	0.00008503	7.37	21.8	0.000050	0.00250	0.00220		0.0100	0.0075
	Count	19	19	19	20	19	19	19	19	19	19	19		2	1
	Minimum	5.24	<0.0010	0.000073	6.83	<0.00020	<0.0000050	<3.0	8.7	0.000044	<0.0050	0.00021		<0.020	<0.015
	Maximum	15.0	<0.0010	0.0012	8.43	<0.00020	<0.00020	10.5	31	0.000059	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	10.92	0.00050	0.000410	7.68	0.000100	0.00006026	6.94	21.0	0.000050	0.00250	0.00194		0.0100	0.0075
	Count <DL	0	19	15	0	19	18	1	0	16	19	16		2	1
	Standard Deviation	2.41	0.00000	0.000227	0.48	0.000000	0.00003555	2.01	5.2	0.000003	0.00000	0.00073		0.0000	0.0000
	1st Quartile	9.84	0.0005	0.0005	7.34	0.0001	0.0001	6.55	19	5.00E-05	0.0025	0.0025		0.01	<0.015
	Median	11.4	<0.0010	<0.0010	7.6	<0.00020	<0.00020	7.5	23	<0.00010	<0.0050	<0.0050		0.01	<0.015
	3rd Quartile	12.7	0.0005	0.0005	8.14	0.0001	0.0001	8.55	25	5.00E-05	0.0025	0.0025		0.01	<0.015
7 South Quinsam River 7SQR E292113	Average	10.61	0.00050	0.000437	7.35	0.000100	0.00008497	7.1	20.4	0.000050	0.00250	0.00216		0.0100	0.0075
	Count	19	19	19	19	19	19	19	19	19	19	19		2	1
	Minimum	5.20	<0.0010	0.000083	6.78	<0.00020	<0.0000050	3.4	8.8	0.000044	<0.0050	0.00029		<0.020	<0.015
	Maximum	14.8	<0.0010	<0.0010	7.7	<0.00020	<0.00020	9.4	28	0.000059	<0.0050	<0.0050		<0.020	<0.015
	Geometric Mean	10.29	0.00050	0.000387	7.34	0.000100	0.00006115	6.9	19.8	0.000050	0.00250	0.00183		0.0100	0.0075
	Count <DL	0	19	16	0	19	17	0	0	16	19	16		2	1
	Standard Deviation	2.49	0.00000	0.000150	0.26	0.000000	0.00003567	1.6	4.7	0.000003	0.00000	0.00080		0.0000	0.0000
	1st Quartile	8.55	0.0005	0.0005	7.17	0.0001	0.0001	6.2	18.5	5.00E-05	0.0025	0.0025		0.01	<0.015
	Median	11.2	<0.0010	<0.0010	7.41	<0.00020	<0.00020	7.3	21	<0.00010	<0.0050	<0.0050		0.01	<0.015
	3rd Quartile	12.15	0.0005	0.0005	7.58	0.0001	0.0001	8.4	23.5	5.00E-05	0.0025	0.0025		0.01	<0.015
Iron River & Quinsam River IRQR E299256	Average	8.82	0.00050	0.00050	7.52	0.000100	0.000107	5.7	16.7	0.000079	0.00269	0.00250		0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15		1	
	Minimum	5.12	<0.0010	<0.0010	7.18	<0.00020	<0.00020	4.0	12	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	12.6	<0.0010	<0.0010	7.74	<0.00020	0.00021	7.1	20	0.00017	0.0054	<0.0050		<0.020	
	Geometric Mean	8.55	0.00050	0.00050	7.52	0.000100	0.000105	5.6	16.5	0.000071	0.00263	0.00250		0.0100	
	Count <DL	0	15	15	0	15	14	0	0	9	14	15		1	
	Standard Deviation	2.19	0.00000	0.00000	0.16	0.000000	0.000028	0.9	2.5	0.000040	0.00075	0.00000		0.0000	
	1st Quartile	7.6	0.0005	0.0005	7.44	0.0001	0.0001	5.1	15.5	5.00E-05	0.0025	0.0025		<0.020	
	Median	8.8	<0.0010	<0.0010	7.52	<0.00020	<0.00020	5.8	17	<0.00010	<0.0050	<0.0050		<0.020	
	3rd Quartile	10.12	0.0005	0.0005	7.62	0.0001	0.0001	6.4	18	0.000115	0.0025	0.0025		<0.020	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake Outlet NNO E217017	Average	0.00031	0.00032	0.0289	0.0274	14.5	0.0250	0.0000050	0.00046	0.069	0.0583	0.0057	0.0040	13.0
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.0002	0.00021	0.0116	0.0091	10	<0.050	<0.000010	0.00038	0.040	0.0322	0.0028	0.0014	10.2
	Maximum	0.00041	0.00041	0.0503	0.0520	21	<0.050	<0.000010	0.00061	0.102	0.0910	0.0115	0.0094	15.9
	Geometric Mean	0.00030	0.00032	0.0253	0.0235	14.2	0.0250	0.0000050	0.00046	0.066	0.0542	0.0050	0.0034	12.9
	Count <DL	0	0	0	0	0	15	15	0	0	0	0	0	0
	Standard Deviation	0.00008	0.00008	0.0145	0.0144	3.5	0.0000	0.0000000	0.00006	0.022	0.0224	0.0032	0.0025	2.1
	1st Quartile	0.00024	0.00024	0.0161	0.016	11	0.025	5.00E-06	0.00044	0.049	0.0371	0.003	0.0026	11
	Median	0.00032	0.00036	0.0225	0.0219	14	<0.050	<0.000010	0.00046	0.064	0.0503	0.0046	0.0027	13.4
	3rd Quartile	0.00038	0.00038	0.042	0.039	16.5	0.025	5.00E-06	0.00048	0.092	0.08	0.0078	0.0054	14.7
Long Lake Outlet LLO E219412	Average	0.00043	0.00044	0.0218	0.0172	27.3	0.0333	0.0000050	0.00037	0.055	0.0389	0.0073	0.0034	55.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00031	0.00029	0.0082	0.0057	22	<0.050	<0.000010	0.00030	0.034	0.0168	0.0053	0.0018	36.8
	Maximum	0.00059	0.00056	0.0419	0.0342	34	0.060	<0.000010	0.00044	0.075	0.0656	0.0096	0.0053	80.8
	Geometric Mean	0.00042	0.00043	0.0191	0.0137	27.0	0.0310	0.0000050	0.00036	0.053	0.0362	0.0072	0.0031	54.3
	Count <DL	0	0	0	0	0	11	15	0	0	0	0	0	0
	Standard Deviation	0.00010	0.00010	0.0113	0.0113	4.4	0.0143	0.0000000	0.00005	0.012	0.0142	0.0013	0.0013	12.3
	1st Quartile	0.00032	0.00032	0.013	0.0072	23	0.025	5.00E-06	0.00033	0.046	0.0326	0.0064	0.0022	47.9
	Median	0.00045	0.00048	0.0155	0.0129	28	<0.050	<0.000010	0.00037	0.055	0.0397	0.0072	0.0037	54.7
	3rd Quartile	0.0005	0.0005	0.0318	0.029	30	0.038	5.00E-06	0.0004	0.064	0.0446	0.0078	0.0044	62.4
Iron River Site 6 IR6 E297231	Average	0.00161	0.00178	0.0437	0.0387	40.2	0.0250	0.0000090	0.00067	0.0321	0.01929	0.00149	0.00067	37.7
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00040	0.00047	0.0168	0.0175	23	<0.050	<0.000010	0.00046	<0.010	<0.0050	<0.0010	<0.0010	21.7
	Maximum	0.00345	0.00416	0.125	0.105	56	<0.050	0.000013	0.00114	0.103	0.0522	0.0054	0.0015	50.7
	Geometric Mean	0.00130	0.00141	0.0337	0.0311	38.5	0.0250	0.0000083	0.00064	0.0163	0.01058	0.00096	0.00061	36.2
	Count <DL	0	0	0	0	0	10	4	0	5	3	6	8	0
	Standard Deviation	0.00102	0.00122	0.0357	0.0301	11.8	0.0000	0.0000035	0.00023	0.0351	0.01914	0.00164	0.00037	10.6
	1st Quartile	0.00078	0.0008	0.0175	0.0183	32.5	0.025	5.00E-06	0.00051	0.005	0.00332	0.0005	0.0005	31.5
	Median	0.00146	0.00149	0.0289	0.0226	40.5	0.025	1.05E-05	0.00057	0.0185	0.01075	0.0005	0.0005	38.7
	3rd Quartile	0.00238	0.00269	0.0628	0.045	49	0.025	1.20E-05	0.0008	0.0448	0.03472	0.00222	0.0005	47
Iron River Site 8 IR8 E297232	Average	0.00386	0.00423	0.0379	0.0362	41.4	0.0250	0.0000062	0.00070	0.0275	0.0206	0.00109	0.00094	38.0
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00058	0.00058	0.0170	0.0174	24	<0.050	<0.000010	0.00051	<0.010	0.0070	<0.0010	<0.0010	21.2
	Maximum	0.00838	0.0103	0.101	0.0924	57	<0.050	0.000012	0.00113	0.083	0.0478	0.0025	0.0035	53.3
	Geometric Mean	0.00266	0.00286	0.0303	0.0293	39.7	0.0250	0.0000058	0.00068	0.0160	0.0152	0.00089	0.00072	36.2
	Count <DL	0	0	0	0	0	10	8	0	4	0	5	7	0
	Standard Deviation	0.00288	0.00334	0.0292	0.0274	11.9	0.0000	0.0000026	0.00019	0.0278	0.0166	0.00075	0.00095	11.6
	1st Quartile	0.00129	0.0013	0.018	0.0179	34.5	0.025	5.00E-06	0.00057	0.005	0.0074	0.0005	0.0005	30
	Median	0.00353	0.00368	0.0207	0.0202	41	0.025	5.00E-06	0.00062	0.0155	0.0114	0.00085	0.0005	39.7
	3rd Quartile	0.00627	0.0068	0.0538	0.0418	50.5	0.025	5.00E-06	0.00081	0.0427	0.0358	0.00127	0.00095	47.8

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake Outlet NNO E217017	Average	1.189	0.00050	0.00050	7.27	0.000100	0.000100	1.50	1.05	0.000050	0.00250	0.00250		0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15		1	
	Minimum	0.981	<0.0010	<0.0010	6.85	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	1.36	<0.0010	<0.0010	7.9	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050		<0.020	
	Geometric Mean	1.182	0.00050	0.00050	7.26	0.000100	0.000100	1.50	0.92	0.000050	0.00250	0.00250		0.0100	
	Count <DL	0	15	15	0	15	15	15	6	15	15	15		1	
	Standard Deviation	0.132	0.00000	0.00000	0.31	0.000000	0.000000	0.00	0.53	0.000000	0.00000	0.00000		0.0000	
	1st Quartile	1.05	0.0005	0.0005	7.01	0.0001	0.0001	1.5	0.5	5.00E-05	0.0025	0.0025		<0.020	
	Median	1.24	<0.0010	<0.0010	7.25	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050		<0.020	
	3rd Quartile	1.295	0.0005	0.0005	7.42	0.0001	0.0001	1.5	1.4	5.00E-05	0.0025	0.0025		<0.020	
Long Lake Outlet LLO E219412	Average	5.52	0.00050	0.00050	7.38	0.000100	0.000100	16.0	46.5	0.000050	0.00250	0.00250		0.0100	
	Count	15	15	15	15	15	15	15	15	15	15	15		1	
	Minimum	4.24	<0.0010	<0.0010	7.07	<0.00020	<0.00020	11.6	34	<0.00010	<0.0050	<0.0050		<0.020	
	Maximum	7.57	<0.0010	<0.0010	7.61	<0.00020	<0.00020	22.7	64	<0.00010	<0.0050	<0.0050		<0.020	
	Geometric Mean	5.44	0.00050	0.00050	7.38	0.000100	0.000100	15.7	45.7	0.000050	0.00250	0.00250		0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15		1	
	Standard Deviation	1.00	0.00000	0.00000	0.18	0.000000	0.000000	3.5	9.5	0.000000	0.00000	0.00000		0.0000	
	1st Quartile	4.75	0.0005	0.0005	7.26	0.0001	0.0001	13.6	40	5.00E-05	0.0025	0.0025		<0.020	
	Median	5.25	<0.0010	<0.0010	7.45	<0.00020	<0.00020	14.8	44	<0.00010	<0.0050	<0.0050		<0.020	
	3rd Quartile	6.02	0.0005	0.0005	7.5	0.0001	0.0001	17.6	50	5.00E-05	0.0025	0.0025		<0.020	
Iron River Site 6 IR6 E297231	Average	1.60	0.00050	0.00050	7.81	0.000100	0.000100	1.50	4.54	0.00025	0.00250	0.00250			
	Count	10	10	10	10	10	10	10	10	10	10	10			
	Minimum	1.03	<0.0010	<0.0010	7.45	<0.00020	<0.00020	<3.0	<1.0	0.00018	<0.0050	<0.0050			
	Maximum	2.33	<0.0010	<0.0010	8.16	<0.00020	<0.00020	<3.0	8.2	0.00033	<0.0050	<0.0050			
	Geometric Mean	1.53	0.00050	0.00050	7.80	0.000100	0.000100	1.50	3.44	0.00025	0.00250	0.00250			
	Count <DL	0	10	10	0	10	10	10	1	0	10	10			
	Standard Deviation	0.51	0.00000	0.00000	0.23	0.000000	0.000000	0.00	2.78	0.00005	0.00000	0.00000			
	1st Quartile	1.08	0.0005	0.0005	7.66	0.0001	0.0001	1.5	2.22	0.00023	0.0025	0.0025			
	Median	1.66	0.0005	0.0005	7.85	0.0001	0.0001	1.5	5.1	0.00027	0.0025	0.0025			
	3rd Quartile	1.94	0.0005	0.0005	7.93	0.0001	0.0001	1.5	6.32	0.00028	0.0025	0.0025			
Iron River Site 8 IR8 E297232	Average	1.93	0.00050	0.00050	7.82	0.000100	0.000100	1.50	4.44	0.00023	0.00250	0.00250			
	Count	10	10	10	10	10	10	10	10	10	10	10			
	Minimum	1.13	<0.0010	<0.0010	7.45	<0.00020	<0.00020	<3.0	<1.0	0.00015	<0.0050	<0.0050			
	Maximum	3.07	<0.0010	<0.0010	8.16	<0.00020	<0.00020	<3.0	7.9	0.00029	<0.0050	<0.0050			
	Geometric Mean	1.79	0.00050	0.00050	7.82	0.000100	0.000100	1.50	3.36	0.00022	0.00250	0.00250			
	Count <DL	0	10	10	0	10	10	10	1	0	10	10			
	Standard Deviation	0.76	0.00000	0.00000	0.24	0.000000	0.000000	0.00	2.69	0.00005	0.00000	0.00000			
	1st Quartile	1.17	0.0005	0.0005	7.73	0.0001	0.0001	1.5	2.28	0.0002	0.0025	0.0025			
	Median	1.86	0.0005	0.0005	7.84	0.0001	0.0001	1.5	4.95	0.00022	0.0025	0.0025			
	3rd Quartile	2.48	0.0005	0.0005	7.98	0.0001	0.0001	1.5	6.3	0.00027	0.0025	0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Middle Quinsam Lake 1M MQL1 E206618	Average	0.000137	0.00014	0.0138	0.0128	36.9	0.0270	0.0000050	0.00051	0.031	0.0224	0.0075	0.00277	29.4
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	0.0001	0.0091	0.0051	33	<0.050	<0.000010	0.00043	0.021	0.0157	0.0033	<0.0010	25.8
	Maximum	0.00017	0.00018	0.0175	0.0182	43	0.055	<0.000010	0.00060	0.053	0.0359	0.0214	0.0112	33.4
	Geometric Mean	0.000128	0.00014	0.0136	0.0122	36.8	0.0263	0.0000050	0.00051	0.030	0.0217	0.0060	0.00177	29.3
	Count <DL	2	0	0	0	0	14	15	0	0	0	0	3	0
	Standard Deviation	0.000041	0.00003	0.0026	0.0034	2.7	0.0077	0.0000000	0.00005	0.009	0.0061	0.0059	0.00311	2.4
	1st Quartile	0.000115	0.00012	0.0128	0.0124	35	0.025	5.00E-06	0.00048	0.024	0.0168	0.0036	0.0011	27.2
	Median	0.00016	0.00016	0.0137	0.0137	36	<0.050	<0.000010	0.00052	0.03	0.0219	0.005	0.0018	29.9
	3rd Quartile	0.00016	0.00016	0.0158	0.0144	38.5	0.025	5.00E-06	0.00053	0.034	0.0255	0.0076	0.0024	30.6
Middle Quinsam Lake 4M MQL4 E206618	Average	0.000133	0.000141	0.0132	0.0125	37.1	0.0284	0.0000050	0.00049	0.031	0.0225	0.0077	0.00263	29.0
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0068	0.0046	33	<0.050	<0.000010	0.00041	0.022	0.0146	0.0034	<0.0010	24.3
	Maximum	0.00018	0.00018	0.0171	0.0177	43	0.051	<0.000010	0.00056	0.045	0.0374	0.0223	0.0110	34.1
	Geometric Mean	0.000125	0.000135	0.0129	0.0119	37.0	0.0275	0.0000050	0.00049	0.030	0.0217	0.0064	0.00159	28.9
	Count <DL	2	1	0	0	0	13	15	0	0	0	0	4	0
	Standard Deviation	0.000040	0.000036	0.0029	0.0035	3.0	0.0090	0.0000000	0.00005	0.008	0.0066	0.0059	0.00321	2.3
	1st Quartile	0.000115	0.00011	0.012	0.0116	35	0.025	5.00E-06	0.00046	0.026	0.0166	0.0038	0.0008	28
	Median	0.00014	0.00015	0.014	0.0131	36	<0.050	<0.000010	0.0005	0.031	0.0232	0.0058	0.0015	28.4
	3rd Quartile	0.000165	0.00017	0.015	0.0143	39	0.025	5.00E-06	0.00052	0.036	0.0264	0.0073	0.00225	30.2
Middle Quinsam Lake 9M MQL9 E206618	Average	0.000121	0.000127	0.0116	0.0104	37.5	0.0305	0.0000050	0.00050	0.026	0.0164	0.0081	0.00248	31.1
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0070	0.0047	36	<0.050	<0.000010	0.00042	0.017	0.0098	0.0025	<0.0010	28.2
	Maximum	0.00017	0.00018	0.0171	0.0158	43	0.054	<0.000010	0.00060	0.049	0.0357	0.0218	0.0109	35.7
	Geometric Mean	0.000114	0.000122	0.0110	0.0097	37.4	0.0290	0.0000050	0.00049	0.025	0.0149	0.0062	0.00128	31.1
	Count <DL	2	1	0	0	0	12	15	0	0	0	0	7	0
	Standard Deviation	0.000037	0.000030	0.0037	0.0039	2.1	0.0113	0.0000000	0.00005	0.011	0.0084	0.0065	0.00344	1.7
	1st Quartile	0.000105	0.000115	0.008	0.0072	36	0.025	5.00E-06	0.00046	0.02	0.0111	0.0031	0.0005	29.8
	Median	0.00012	0.00012	0.0123	0.0097	37	<0.050	<0.000010	0.00049	0.021	0.0122	0.0057	0.0012	31.1
	3rd Quartile	0.00015	0.000145	0.0149	0.0146	38	0.025	5.00E-06	0.00052	0.03	0.017	0.0112	0.00205	31.9
Middle Quinsam Lake 1MB MQLB E206618	Average	0.000113	0.000113	0.0117	0.01006	38.2	0.0325	0.0000050	0.00050	0.046	0.0246	0.1176	0.11883	32.5
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	<0.00010	<0.00010	0.0056	<0.0030	35	<0.050	<0.000010	0.00044	0.018	0.0108	0.0026	<0.0010	29.0
	Maximum	0.00019	0.00018	0.0170	0.0183	49	0.057	<0.000010	0.00059	0.155	0.0586	1.02	1.06	38.7
	Geometric Mean	0.000103	0.000102	0.0108	0.00858	38.0	0.0306	0.0000050	0.00050	0.034	0.0206	0.0135	0.00559	32.4
	Count <DL	4	4	0	1	0	11	15	0	0	0	0	3	0
	Standard Deviation	0.000046	0.000046	0.0044	0.00481	3.8	0.0130	0.0000000	0.00005	0.043	0.0162	0.2946	0.30788	2.8
	1st Quartile	7.50E-05	7.50E-05	0.007	0.0061	36	0.025	5.00E-06	0.00047	0.021	0.0134	0.0045	0.0012	30.8
	Median	0.00011	0.00011	0.0129	0.0101	37	<0.050	<0.000010	0.00051	0.023	0.0148	0.0078	0.0037	31.6
	3rd Quartile	0.00015	0.000145	0.0157	0.0137	38.5	0.0375	5.00E-06	0.00051	0.055	0.0377	0.018	0.0086	33.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Middle Quinsam Lake 1M	Average	11.43	0.00050	0.00050	7.45	0.000100	0.000100	7.1	20.6	0.000050	0.00250	0.00250	0.00756	0.0100	
MQL1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	7.71	<0.0010	<0.0010	7.13	<0.00020	<0.00020	5.0	14	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.0	<0.0010	<0.0010	8.04	<0.00020	<0.00020	11.8	34	<0.00010	<0.0050	<0.0050	0.073	<0.020	
	Geometric Mean	11.24	0.00050	0.00050	7.45	0.000100	0.000100	6.9	20.0	0.000050	0.00250	0.00250	0.00297	0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	8	15	
	Standard Deviation	2.19	0.00000	0.00000	0.27	0.000000	0.000000	1.8	5.3	0.000000	0.00000	0.00000	0.01824	0.0000	
	1st Quartile	10.35	0.0005	0.0005	7.21	0.0001	0.0001	5.9	17.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	11.1	<0.0010	<0.0010	7.45	<0.00020	<0.00020	6.8	20	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	13	0.0005	0.0005	7.62	0.0001	0.0001	7.4	21	5.00E-05	0.0025	0.0025	0.0039	0.01	
Middle Quinsam Lake 4M	Average	11.42	0.00050	0.00050	7.46	0.000100	0.000100	6.9	20.5	0.000050	0.00250	0.00250	0.00217	0.0100	
MQL4	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	7.68	<0.0010	<0.0010	7.09	<0.00020	<0.00020	4.7	14	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.0	<0.0010	<0.0010	7.95	<0.00020	<0.00020	11.7	33	<0.00010	<0.0050	<0.0050	0.0042	<0.020	
	Geometric Mean	11.22	0.00050	0.00050	7.46	0.000100	0.000100	6.7	19.9	0.000050	0.00250	0.00250	0.00198	0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	10	15	
	Standard Deviation	2.23	0.00000	0.00000	0.23	0.000000	0.000000	1.8	5.2	0.000000	0.00000	0.00000	0.00102	0.0000	
	1st Quartile	10.35	0.0005	0.0005	7.3	0.0001	0.0001	5.8	17.5	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	11.3	<0.0010	<0.0010	7.47	<0.00020	<0.00020	6.7	19	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	3rd Quartile	13.05	0.0005	0.0005	7.63	0.0001	0.0001	7.4	21.5	5.00E-05	0.0025	0.0025	0.003	0.01	
Middle Quinsam Lake 9M	Average	12.5	0.00050	0.00050	7.51	0.000100	0.000100	8.1	23.9	0.000050	0.00250	0.00250	0.00524	0.0142	
MQL9	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	10.6	<0.0010	<0.0010	7.06	<0.00020	<0.00020	6.2	18	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.5	<0.0010	<0.0010	8.16	<0.00020	<0.00020	11.9	35	<0.00010	<0.0050	<0.0050	0.039	0.073	
	Geometric Mean	12.5	0.00050	0.00050	7.50	0.000100	0.000100	8.0	23.6	0.000050	0.00250	0.00250	0.00296	0.0114	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	7	14	
	Standard Deviation	1.4	0.00000	0.00000	0.32	0.000000	0.000000	1.3	4.0	0.000000	0.00000	0.00000	0.00947	0.0163	
	1st Quartile	11.6	0.0005	0.0005	7.27	0.0001	0.0001	7.6	23	5.00E-05	0.0025	0.0025	0.0015	0.01	
	Median	12.4	<0.0010	<0.0010	7.4	<0.00020	<0.00020	8.1	24	<0.00010	<0.0050	<0.0050	0.0031	<0.020	
	3rd Quartile	12.7	0.0005	0.0005	7.79	0.0001	0.0001	8.5	24	5.00E-05	0.0025	0.0025	0.00385	0.01	
Middle Quinsam Lake 1MB	Average	12.7	0.00050	0.00050	7.07	0.000100	0.000100	8.3	24.5	0.000050	0.00250	0.00250	0.00310	0.0116	
MQLB	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206618	Minimum	10.8	<0.0010	<0.0010	6.68	<0.00020	<0.00020	6.4	19	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	16.2	<0.0010	<0.0010	7.34	<0.00020	<0.00020	11.6	35	<0.00010	<0.0050	<0.0050	0.0049	0.034	
	Geometric Mean	12.6	0.00050	0.00050	7.07	0.000100	0.000100	8.2	24.2	0.000050	0.00250	0.00250	0.00287	0.0109	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	4	14	
	Standard Deviation	1.5	0.00000	0.00000	0.19	0.000000	0.000000	1.4	3.9	0.000000	0.00000	0.00000	0.00114	0.0062	
	1st Quartile	11.9	0.0005	0.0005	6.96	0.0001	0.0001	7.6	22	5.00E-05	0.0025	0.0025	0.0023	0.01	
	Median	12.3	<0.0010	<0.0010	7.12	<0.00020	<0.00020	8.1	24	<0.00010	<0.0050	<0.0050	0.0033	<0.020	
	3rd Quartile	13	0.0005	0.0005	7.2	0.0001	0.0001	8.7	25	5.00E-05	0.0025	0.0025	0.0036	0.01	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
No Name Lake 1M NNL1 E217018	Average	0.00021	0.00022	0.0362	0.0359	11.0	0.0250	0.0000050	0.00046	0.044	0.0400	0.0036	0.0039	10.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00017	0.00021	0.0297	0.03	11	<0.050	<0.000010	0.00042	0.040	0.0354	0.0031	0.0031	10.4
	Maximum	0.00023	0.00024	0.0417	0.0406	11	<0.050	<0.000010	0.00050	0.049	0.0475	0.0041	0.0044	11.4
	Geometric Mean	0.00020	0.00022	0.0360	0.0357	11.0	0.0250	0.0000050	0.00046	0.044	0.0397	0.0036	0.0039	10.8
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00001	0.0044	0.0039	0.0	0.0000	0.0000000	0.00003	0.004	0.0048	0.0004	0.0005	0.4
	1st Quartile	0.0002	0.00021	0.0354	0.0351	11	<0.050	<0.000010	0.00044	0.041	0.0373	0.0036	0.0038	10.5
	Median	0.00021	0.00022	0.0361	0.0363	11	<0.050	<0.000010	0.00046	0.045	0.0377	0.0036	0.0038	10.8
	3rd Quartile	0.00022	0.00023	0.0383	0.0374	11	<0.050	<0.000010	0.00049	0.045	0.0419	0.0038	0.0043	10.8
No Name Lake 4M NNL4 E217018	Average	0.00021	0.00022	0.0385	0.0367	11.0	0.0250	0.0000050	0.00047	0.047	0.0392	0.0037	0.0037	11.1
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00019	0.00020	0.0336	0.0305	10	<0.050	<0.000010	0.00044	0.043	0.0331	0.0031	0.0029	10.7
	Maximum	0.00023	0.00023	0.0424	0.0399	12	<0.050	<0.000010	0.00055	0.050	0.0478	0.0041	0.0043	11.5
	Geometric Mean	0.00021	0.00022	0.0383	0.0365	11.0	0.0250	0.0000050	0.00047	0.047	0.0388	0.0037	0.0037	11.1
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00001	0.0033	0.0037	0.7	0.0000	0.0000000	0.00005	0.003	0.0058	0.0004	0.0006	0.4
	1st Quartile	0.0002	0.00022	0.0375	0.037	11	<0.050	<0.000010	0.00044	0.046	0.0347	0.0033	0.0032	10.8
	Median	0.00022	0.00023	0.0382	0.0371	11	<0.050	<0.000010	0.00045	0.047	0.0398	0.0039	0.004	11.2
	3rd Quartile	0.00023	0.00023	0.0406	0.039	11	<0.050	<0.000010	0.00047	0.048	0.0405	0.004	0.0041	11.4
No Name Lake 9M NNL9 E217018	Average	0.00018	0.00020	0.0436	0.0416	10.4	0.0250	0.0000050	0.00048	0.055	0.0345	0.0040	0.0037	11.0
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00015	0.00019	0.0404	0.0352	10	<0.050	<0.000010	0.00040	0.051	0.0318	0.0036	0.0035	10.7
	Maximum	0.00020	0.00021	0.0461	0.0506	12	<0.050	<0.000010	0.00056	0.059	0.0416	0.0043	0.0040	11.4
	Geometric Mean	0.00018	0.00020	0.0435	0.0413	10.4	0.0250	0.0000050	0.00048	0.055	0.0343	0.0040	0.0037	11.0
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00002	0.00001	0.0024	0.0058	0.9	0.0000	0.0000000	0.00006	0.004	0.0040	0.0003	0.0002	0.3
	1st Quartile	0.00017	0.00019	0.0417	0.0384	10	<0.050	<0.000010	0.00048	0.052	0.0325	0.0038	0.0035	10.7
	Median	0.00019	0.0002	0.0446	0.0414	10	<0.050	<0.000010	0.00049	0.054	0.0333	0.004	0.0036	11
	3rd Quartile	0.00019	0.0002	0.0451	0.0426	10	<0.050	<0.000010	0.00049	0.058	0.0333	0.0043	0.0038	11.1
No Name Lake Bottom NNLB E217018	Average	0.00018	0.00020	0.0451	0.0408	10.0	0.0250	0.0000068	0.00048	0.061	0.0342	0.0043	0.0038	11.3
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00013	0.00019	0.0428	0.0364	9.8	<0.050	<0.000010	0.00043	0.056	0.0318	0.0038	0.0035	10.9
	Maximum	0.00020	0.0002	0.0469	0.0424	10	<0.050	0.000014	0.00050	0.068	0.0385	0.0046	0.0041	11.6
	Geometric Mean	0.00018	0.00020	0.0451	0.0407	10.0	0.0250	0.0000061	0.00048	0.060	0.0341	0.0042	0.0038	11.3
	Count <DL	0	0	0	0	0	5	4	0	0	0	0	0	0
	Standard Deviation	0.00003	0.000004	0.0018	0.0025	0.1	0.0000	0.0000040	0.00003	0.004	0.0027	0.0003	0.0003	0.3
	1st Quartile	0.00018	0.0002	0.0438	0.0415	10	<0.050	<0.000010	0.00048	0.059	0.032	0.004	0.0036	11.1
	Median	0.00019	0.0002	0.0457	0.0418	10	<0.050	<0.000010	0.00049	0.06	0.0338	0.0044	0.004	11.3
	3rd Quartile	0.0002	0.0002	0.0464	0.0419	10	<0.050	<0.000010	0.0005	0.06	0.0347	0.0045	0.004	11.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
No Name Lake 1M	Average	1.05	0.00050	0.00050	6.82	0.000100	0.000100	1.50	0.92	0.000050	0.00250	0.00250	0.00424	0.0124	
NNL1	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.04	<0.0010	<0.0010	6.54	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	1.07	<0.0010	<0.0010	7.24	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	0.0064	0.022	
	Geometric Mean	1.05	0.00050	0.00050	6.82	0.000100	0.000100	1.50	0.85	0.000050	0.00250	0.00250	0.00382	0.0117	
	Count <DL	0	5	5	0	5	5	5	2	5	5	5	1	4	
	Standard Deviation	0.01	0.00000	0.00000	0.27	0.000000	0.000000	0.00	0.38	0.000000	0.00000	0.00000	0.00184	0.0054	
	1st Quartile	1.04	<0.0010	<0.0010	6.63	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	0.0037	<0.020	
	Median	1.05	<0.0010	<0.0010	6.81	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	0.0043	<0.020	
	3rd Quartile	1.06	<0.0010	<0.0010	6.9	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	0.0053	<0.020	
No Name Lake 4M	Average	1.04	0.00050	0.00050	6.62	0.000100	0.000100	1.50	0.94	0.000050	0.00250	0.00250	0.0057	0.0162	
NNL4	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	1.03	<0.0010	<0.0010	6.39	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	0.0043	<0.020	
	Maximum	1.06	<0.0010	<0.0010	6.95	<0.00020	<0.00020	<3.0	1.3	<0.00010	<0.0050	<0.0050	0.007	0.041	
	Geometric Mean	1.04	0.00050	0.00050	6.62	0.000100	0.000100	1.50	0.86	0.000050	0.00250	0.00250	0.0056	0.0133	
	Count <DL	0	5	5	0	5	5	5	2	5	5	5	0	4	
	Standard Deviation	0.01	0.00000	0.00000	0.21	0.000000	0.000000	0.00	0.40	0.000000	0.00000	0.00000	0.0012	0.0139	
	1st Quartile	1.03	<0.0010	<0.0010	6.49	<0.00020	<0.00020	<3.0	<1.0	<0.00010	<0.0050	<0.0050	0.0047	<0.020	
	Median	1.05	<0.0010	<0.0010	6.63	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	0.0058	<0.020	
	3rd Quartile	1.05	<0.0010	<0.0010	6.66	<0.00020	<0.00020	<3.0	1.2	<0.00010	<0.0050	<0.0050	0.0066	<0.020	
No Name Lake 9M	Average	1.004	0.00050	0.00050	6.25	0.000100	0.000100	1.50	2.2	0.000050	0.00250	0.00250	0.0047	0.043	
NNL9	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	0.952	<0.0010	<0.0010	6.2	<0.00020	<0.00020	<3.0	1.9	<0.00010	<0.0050	<0.0050	0.0038	0.023	
	Maximum	1.04	<0.0010	<0.0010	6.36	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	0.0065	0.101	
	Geometric Mean	1.003	0.00050	0.00050	6.25	0.000100	0.000100	1.50	2.2	0.000050	0.00250	0.00250	0.0046	0.037	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	0	0	
	Standard Deviation	0.038	0.00000	0.00000	0.07	0.000000	0.000000	0.00	0.2	0.000000	0.00000	0.00000	0.0011	0.033	
	1st Quartile	0.976	<0.0010	<0.0010	6.21	<0.00020	<0.00020	<3.0	2.1	<0.00010	<0.0050	<0.0050	0.0041	0.025	
	Median	1.02	<0.0010	<0.0010	6.23	<0.00020	<0.00020	<3.0	2.2	<0.00010	<0.0050	<0.0050	0.0043	0.032	
	3rd Quartile	1.03	<0.0010	<0.0010	6.27	<0.00020	<0.00020	<3.0	2.3	<0.00010	<0.0050	<0.0050	0.0047	0.036	
No Name Lake Bottom	Average	1.001	0.00050	0.00050	6.14	0.000100	0.000100	1.50	2.4	0.000050	0.00250	0.00250	0.0043	0.033	
NNLB	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
E217018	Minimum	0.962	<0.0010	<0.0010	6.08	<0.00020	<0.00020	<3.0	2.0	<0.00010	<0.0050	<0.0050	0.0038	0.021	
	Maximum	1.04	<0.0010	<0.0010	6.18	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	0.0049	0.046	
	Geometric Mean	1.001	0.00050	0.00050	6.14	0.000100	0.000100	1.50	2.4	0.000050	0.00250	0.00250	0.0043	0.031	
	Count <DL	0	5	5	0	5	5	5	0	5	5	5	0	0	
	Standard Deviation	0.038	0.00000	0.00000	0.04	0.000000	0.000000	0.00	0.2	0.000000	0.00000	0.00000	0.0005	0.012	
	1st Quartile	0.966	<0.0010	<0.0010	6.12	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	0.0038	0.026	
	Median	0.999	<0.0010	<0.0010	6.16	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	0.0046	0.026	
	3rd Quartile	1.04	<0.0010	<0.0010	6.17	<0.00020	<0.00020	<3.0	2.5	<0.00010	<0.0050	<0.0050	0.0046	0.045	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Long Lake Middle 1 M LLM1 E206619	Average	0.00044	0.00045	0.0228	0.0201	25.9	0.0306	0.0000050	0.00040	0.055	0.0418	0.0071	0.00428	51.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00028	0.00029	0.0067	0.0048	17	<0.050	<0.000010	0.00031	0.024	0.0157	0.0058	<0.0010	28.0
	Maximum	0.00064	0.00067	0.0482	0.0473	34	0.056	<0.000010	0.00059	0.094	0.0747	0.0093	0.0082	74.4
	Geometric Mean	0.00043	0.00044	0.0195	0.0169	25.5	0.0290	0.0000050	0.00039	0.052	0.0388	0.0071	0.00363	50.3
	Count <DL	0	0	0	0	0	12	15	0	0	0	0	1	0
	Standard Deviation	0.00013	0.00014	0.0123	0.0115	4.4	0.0116	0.0000000	0.00007	0.018	0.0157	0.0011	0.00199	12.1
	1st Quartile	0.00031	0.00032	0.0123	0.0115	23.5	0.025	5.00E-06	0.00036	0.044	0.032	0.0064	0.00335	45.8
	Median	0.00042	0.00041	0.0226	0.0193	25	<0.050	<0.000010	0.00038	0.052	0.0414	0.0068	0.0043	52.1
	3rd Quartile	0.00053	0.00056	0.0324	0.027	28.5	0.025	5.00E-06	0.0004	0.06	0.0512	0.0075	0.00565	58
Long Lake Middle 4 M LLM4 E206619	Average	0.00043	0.00042	0.0243	0.0196	28.3	0.0409	0.0000050	0.00039	0.060	0.0407	0.0099	0.00539	63.6
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00027	0.00029	0.0061	0.0046	22	<0.050	<0.000010	0.00030	0.025	0.0153	0.0067	<0.0010	37.1
	Maximum	0.00058	0.00055	0.0525	0.0481	33	0.062	<0.000010	0.00057	0.107	0.0779	0.0131	0.0108	81.6
	Geometric Mean	0.00042	0.00041	0.0207	0.0164	28.1	0.0379	0.0000050	0.00039	0.057	0.0379	0.0097	0.00412	61.9
	Count <DL	0	0	0	0	0	7	15	0	0	0	0	1	0
	Standard Deviation	0.00010	0.00010	0.0130	0.0114	3.6	0.0157	0.0000000	0.00006	0.019	0.0155	0.0021	0.00319	13.9
	1st Quartile	0.00033	0.00032	0.0146	0.0118	26.5	0.025	5.00E-06	0.00037	0.053	0.0327	0.0082	0.0033	59.8
	Median	0.00042	0.00042	0.0241	0.0189	29	0.05	<0.000010	0.00038	0.059	0.0403	0.0101	0.0053	68.6
	3rd Quartile	0.00051	0.00053	0.033	0.0259	31.5	0.053	5.00E-06	0.00041	0.064	0.0475	0.0117	0.0078	71.6
Long Lake Middle 9 M LLM9 E206619	Average	0.00026	0.00025	0.0217	0.0186	34.3	0.064	0.0000050	0.00039	0.041	0.0247	0.0261	0.0206	89.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00020	0.00020	0.0136	0.0120	33	0.056	<0.000010	0.00030	0.023	0.0149	0.0138	0.0040	80.4
	Maximum	0.00034	0.00034	0.0340	0.0266	36	0.071	<0.000010	0.00058	0.082	0.0553	0.0455	0.0354	95.0
	Geometric Mean	0.00026	0.00025	0.0210	0.0180	34.3	0.064	0.0000050	0.00039	0.038	0.0227	0.0240	0.0169	89.6
	Count <DL	0	0	0	0	0	0	15	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00004	0.0061	0.0049	1.0	0.005	0.0000000	0.00006	0.017	0.0114	0.0106	0.0117	3.9
	1st Quartile	0.00023	0.00023	0.0173	0.0151	34	0.061	5.00E-06	0.00036	0.027	0.017	0.0161	0.0099	87.8
	Median	0.00025	0.00026	0.0192	0.0166	34	0.064	<0.000010	0.00037	0.034	0.0182	0.0269	0.0212	91
	3rd Quartile	0.00028	0.00027	0.0271	0.0232	34.5	0.069	5.00E-06	0.0004	0.054	0.0314	0.0342	0.0316	92.1
Long Lake Middle 1M From B LLMB E206619	Average	0.00038	0.00030	0.0188	0.0155	36.4	0.0638	0.0000096	0.00037	0.129	0.0549	0.5684	0.5780	89.7
	Count	15	15	15	15	15	15	15	15	15	15	15	15	15
	Minimum	0.00025	0.00026	0.0111	0.0068	27	<0.050	<0.000010	0.00027	0.032	0.0290	0.0194	0.0140	64.1
	Maximum	0.00054	0.00034	0.0296	0.0306	41	0.075	0.0000074	0.00061	0.305	0.102	1.59	1.51	97.8
	Geometric Mean	0.00037	0.00030	0.0179	0.0141	36.2	0.0623	0.0000060	0.00037	0.104	0.0485	0.2602	0.2560	89.3
	Count <DL	0	0	0	0	0	1	14	0	0	0	0	0	0
	Standard Deviation	0.00009	0.00002	0.0061	0.0071	3.4	0.0113	0.0000178	0.00007	0.087	0.0292	0.5452	0.5561	8.1
	1st Quartile	0.00029	0.00029	0.0129	0.0109	34.5	0.0625	5.00E-06	0.00035	0.056	0.032	0.0474	0.0462	88.2
	Median	0.00037	0.0003	0.0187	0.013	37	0.067	<0.000010	0.00036	0.101	0.0362	0.385	0.382	91
	3rd Quartile	0.00046	0.00032	0.0243	0.0196	38.5	0.0685	5.00E-06	0.00038	0.185	0.0806	1.09	1.1	94.4

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Long Lake Middle 1 M	Average	5.20	0.00050	0.00050	6.94	0.000100	0.000100	14.3	43.2	0.000050	0.00250	0.00250	0.0043	0.0100	
LLM1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206619	Minimum	2.92	<0.0010	<0.0010	6.27	<0.00020	<0.00020	5.3	17	<0.00010	<0.0050	<0.0050	0.0032	<0.020	
	Maximum	7.91	<0.0010	<0.0010	7.38	<0.00020	<0.00020	23.0	63	<0.00010	<0.0050	<0.0050	0.0065	<0.020	
	Geometric Mean	5.06	0.00050	0.00050	6.93	0.000100	0.000100	13.6	41.3	0.000050	0.00250	0.00250	0.0042	0.0100	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	0	15	
	Standard Deviation	1.25	0.00000	0.00000	0.30	0.000000	0.000000	4.3	12.0	0.000000	0.00000	0.00000	0.0009	0.0000	
	1st Quartile	4.61	0.0005	0.0005	6.78	0.0001	0.0001	12.6	38.5	5.00E-05	0.0025	0.0025	0.0036	0.01	
	Median	4.94	<0.0010	<0.0010	7.08	<0.00020	<0.00020	14.2	43	<0.00010	<0.0050	<0.0050	0.0041	<0.020	
	3rd Quartile	5.76	0.0005	0.0005	7.15	0.0001	0.0001	17.1	50.5	5.00E-05	0.0025	0.0025	0.0049	0.01	
Long Lake Middle 4 M	Average	6.33	0.00050	0.00050	6.90	0.000100	0.000100	18.6	55.0	0.000050	0.00250	0.00250	0.0048	0.0125	
LLM4	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206619	Minimum	3.51	<0.0010	<0.0010	6.39	<0.00020	<0.00020	8.3	27	<0.00010	<0.0050	<0.0050	0.0032	<0.020	
	Maximum	7.87	<0.0010	<0.0010	7.22	<0.00020	<0.00020	23.5	67	<0.00010	<0.0050	<0.0050	0.0080	0.035	
	Geometric Mean	6.17	0.00050	0.00050	6.89	0.000100	0.000100	17.7	52.9	0.000050	0.00250	0.00250	0.0047	0.0115	
	Count <DL	0	15	15	0	15	15	0	0	15	15	15	0	13	
	Standard Deviation	1.33	0.00000	0.00000	0.22	0.000000	0.000000	5.3	13.9	0.000000	0.00000	0.00000	0.0013	0.0071	
	1st Quartile	5.86	0.0005	0.0005	6.8	0.0001	0.0001	16.9	53	5.00E-05	0.0025	0.0025	0.004	0.01	
	Median	6.82	<0.0010	<0.0010	6.88	<0.00020	<0.00020	20.6	61	<0.00010	<0.0050	<0.0050	0.0045	<0.020	
	3rd Quartile	7.12	0.0005	0.0005	7.02	0.0001	0.0001	22.6	64	5.00E-05	0.0025	0.0025	0.0052	0.01	
Long Lake Middle 9 M	Average	9.55	0.00050	0.00050	6.55	0.000100	0.000116	27.8	81.6	0.000050	0.00250	0.00250	0.00411	0.039	
LLM9	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206619	Minimum	9.07	<0.0010	<0.0010	6.39	<0.00020	<0.00020	25.3	76	<0.00010	<0.0050	<0.0050	<0.0030	0.020	
	Maximum	10.5	<0.0010	<0.0010	6.78	<0.00020	0.00034	29.5	86	<0.00010	<0.0050	<0.0050	0.0096	0.055	
	Geometric Mean	9.54	0.00050	0.00050	6.55	0.000100	0.000109	27.8	81.5	0.000050	0.00250	0.00250	0.00374	0.038	
	Count <DL	0	15	15	0	15	14	0	0	15	15	15	2	0	
	Standard Deviation	0.38	0.00000	0.00000	0.11	0.000000	0.000062	1.2	3.5	0.000000	0.00000	0.00000	0.00187	0.011	
	1st Quartile	9.27	0.0005	0.0005	6.48	0.0001	0.0001	26.8	80	5.00E-05	0.0025	0.0025	0.0034	0.032	
	Median	9.48	<0.0010	<0.0010	6.53	<0.00020	<0.00020	28.2	82	<0.00010	<0.0050	<0.0050	0.0039	0.036	
	3rd Quartile	9.68	0.0005	0.0005	6.62	0.0001	0.0001	28.6	84	5.00E-05	0.0025	0.0025	0.00475	0.047	
Long Lake Middle 1M From B	Average	9.64	0.00054	0.00050	6.45	0.000100	0.000100	27.9	80.8	0.000050	0.00250	0.00250	0.00437	0.0803	
LLMB	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	
E206619	Minimum	6.20	<0.0010	<0.0010	6.27	<0.00020	<0.00020	17.8	53	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	11.1	0.0011	<0.0010	6.7	<0.00020	<0.00020	31.3	86	<0.00010	<0.0050	<0.0050	0.0094	0.199	
	Geometric Mean	9.57	0.00053	0.00050	6.45	0.000100	0.000100	27.7	80.3	0.000050	0.00250	0.00250	0.00386	0.0688	
	Count <DL	0	14	15	0	15	15	0	0	15	15	15	4	1	
	Standard Deviation	1.04	0.00015	0.00000	0.12	0.000000	0.000000	3.2	8.1	0.000000	0.00000	0.00000	0.00212	0.0421	
	1st Quartile	9.54	0.0005	0.0005	6.36	0.0001	0.0001	27.1	80.5	5.00E-05	0.0025	0.0025	0.0037	0.0585	
	Median	9.81	<0.0010	<0.0010	6.48	<0.00020	<0.00020	28.6	83	<0.00010	<0.0050	<0.0050	0.0044	0.076	
	3rd Quartile	10	0.0005	0.0005	6.52	0.0001	0.0001	29.4	84.5	5.00E-05	0.0025	0.0025	0.005	0.0955	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	0.00054	0.00057	0.0251	0.0216	30.8	0.0250	0.0000050	0.00056	0.062	0.0436	0.0041	0.0021	26.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00047	0.00053	0.0201	0.0174	30	<0.050	<0.000010	0.00051	0.053	0.0356	0.0037	0.0012	24.5
	Maximum	0.00061	0.00060	0.0323	0.0299	32	<0.050	<0.000010	0.00061	0.074	0.0570	0.0047	0.0036	29.4
	Geometric Mean	0.00054	0.00057	0.0247	0.0212	30.8	0.0250	0.0000050	0.00056	0.062	0.0430	0.0041	0.0019	26.8
	Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0
	Standard Deviation	0.00005	0.00003	0.0049	0.0051	0.8	0.0000	0.0000000	0.00004	0.008	0.0088	0.0004	0.0010	2.1
	1st Quartile	0.00052	0.00057	0.0213	0.0185	30	<0.050	<0.000010	0.00055	0.057	0.036	0.0038	0.0014	24.8
	Median	0.00056	0.00057	0.0248	0.0194	31	<0.050	<0.000010	0.00056	0.061	0.0434	0.0041	0.0014	27.7
	3rd Quartile	0.00056	0.00059	0.0268	0.0227	31	<0.050	<0.000010	0.00057	0.067	0.0462	0.0041	0.0027	27.8
Lower Quinsam Lake 4M LQL4 E292118	Average	0.00058	0.00058	0.0251	0.0204	33.6	0.0250	0.0000062	0.00054	0.066	0.0418	0.0044	0.0021	27.5
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00056	0.00053	0.0213	0.0176	30	<0.050	<0.000010	0.00051	0.060	0.0365	0.0042	0.0013	26.3
	Maximum	0.00063	0.00062	0.0311	0.0256	43	<0.050	0.000011	0.00057	0.074	0.0497	0.0048	0.0033	28.3
	Geometric Mean	0.00058	0.00058	0.0248	0.0202	33.3	0.0250	0.0000059	0.00054	0.065	0.0414	0.0044	0.0019	27.5
	Count <DL	0	0	0	0	0	5	4	0	0	0	0	0	0
	Standard Deviation	0.00003	0.00004	0.0040	0.0033	5.4	0.0000	0.0000027	0.00003	0.006	0.0058	0.0003	0.0010	0.9
	1st Quartile	0.00056	0.00056	0.0229	0.0179	31	<0.050	<0.000010	0.00052	0.062	0.037	0.0042	0.0014	26.9
	Median	0.00057	0.00057	0.023	0.0197	31	<0.050	<0.000010	0.00054	0.063	0.0398	0.0045	0.0014	28
	3rd Quartile	0.00059	0.00061	0.027	0.0214	33	<0.050	<0.000010	0.00056	0.069	0.0458	0.0045	0.0031	28.2
Lower Quinsam Lake 9M LQL9 E292118	Average	0.00055	0.00057	0.0257	0.0212	31.0	0.0250	0.0000076	0.00056	0.066	0.0427	0.0046	0.00182	26.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.0005	0.00054	0.0211	0.0184	30	<0.050	<0.000010	0.00054	0.058	0.0376	0.004	<0.0010	26
	Maximum	0.00058	0.0006	0.0322	0.0263	32	<0.050	0.000018	0.00063	0.072	0.0508	0.0052	0.0031	27.3
	Geometric Mean	0.00055	0.00057	0.0254	0.0210	31.0	0.0250	0.0000065	0.00056	0.065	0.0425	0.0046	0.00135	26.8
	Count <DL	0	0	0	0	0	5	4	0	0	0	0	2	0
	Standard Deviation	0.00003	0.00003	0.0043	0.0031	0.7	0.0000	0.0000058	0.00004	0.006	0.0056	0.0005	0.00130	0.5
	1st Quartile	0.00055	0.00055	0.0236	0.0193	31	<0.050	<0.000010	0.00054	0.062	0.0382	0.0043	<0.0010	26.8
	Median	0.00055	0.00057	0.0242	0.0207	31	<0.050	<0.000010	0.00054	0.065	0.0412	0.0045	0.0019	26.8
	3rd Quartile	0.00055	0.00059	0.0272	0.0211	31	<0.050	<0.000010	0.00055	0.071	0.0459	0.005	0.0031	26.9
Lower Quinsam Lake 1MB LQLB E292118	Average	0.00064	0.00063	0.0284	0.0208	30.6	0.0250	0.0000066	0.00056	0.119	0.0693	0.0140	0.0104	27.5
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00059	0.00059	0.024	0.017	29	<0.050	<0.000010	0.00054	0.084	0.0571	0.0060	0.0047	26.4
	Maximum	0.0007	0.00068	0.0329	0.0265	31	<0.050	0.000013	0.00058	0.145	0.0812	0.0229	0.0171	28.1
	Geometric Mean	0.00064	0.00063	0.0282	0.0206	30.6	0.0250	0.0000061	0.00056	0.117	0.0688	0.0128	0.0096	27.5
	Count <DL	0	0	0	0	0	5	4	0	0	0	0	0	0
	Standard Deviation	0.00004	0.00004	0.0038	0.0036	0.9	0.0000	0.0000036	0.00002	0.024	0.0086	0.0062	0.0044	0.7
	1st Quartile	0.00061	0.00059	0.0255	0.0188	31	<0.050	<0.000010	0.00054	0.112	0.0681	0.0114	0.0093	27.3
	Median	0.00063	0.00062	0.0282	0.0204	31	<0.050	<0.000010	0.00055	0.116	0.0683	0.0146	0.0102	27.5
	3rd Quartile	0.00066	0.00066	0.0314	0.0215	31	<0.050	<0.000010	0.00057	0.14	0.0716	0.015	0.0106	28.1

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	7.51	0.00050	0.00050	7.34	0.000100	0.000100	5.3	15.4	0.000060	0.00250	0.00364	0.0040	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.14	<0.0010	<0.0010	7.3	<0.00020	<0.00020	5.1	15	<0.00010	<0.0050	<0.0050	0.0033	<0.020	
	Maximum	7.73	<0.0010	<0.0010	7.4	<0.00020	<0.00020	5.6	17	0.0001	<0.0050	0.0082	0.0046	<0.020	
	Geometric Mean	7.51	0.00050	0.00050	7.34	0.000100	0.000100	5.3	15.4	0.000057	0.00250	0.00317	0.0040	0.0100	
	Count <DL	0	5	5	0	5	5	0	0	4	5	4	0	5	
	Standard Deviation	0.27	0.00000	0.00000	0.04	0.000000	0.000000	0.2	0.9	0.000022	0.00000	0.00255	0.0005	0.0000	
	1st Quartile	7.29	<0.0010	<0.0010	7.31	<0.00020	<0.00020	5.1	15	<0.00010	<0.0050	<0.0050	0.0037	<0.020	
	Median	7.69	<0.0010	<0.0010	7.33	<0.00020	<0.00020	5.3	15	<0.00010	<0.0050	<0.0050	0.0039	<0.020	
	3rd Quartile	7.7	<0.0010	<0.0010	7.36	<0.00020	<0.00020	5.4	15	<0.00010	<0.0050	<0.0050	0.0044	<0.020	
Lower Quinsam Lake 4M LQL4 E292118	Average	7.60	0.00050	0.00050	7.30	0.000100	0.000100	5.1	15.4	0.000050	0.00250	0.00250	0.00364	0.0100	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	7.16	<0.0010	<0.0010	7.27	<0.00020	<0.00020	4.4	15	<0.00010	<0.0050	<0.0050	<0.0030	<0.020	
	Maximum	7.98	<0.0010	<0.0010	7.34	<0.00020	<0.00020	5.6	16	<0.00010	<0.0050	<0.0050	0.0043	<0.020	
	Geometric Mean	7.60	0.00050	0.00050	7.30	0.000100	0.000100	5.1	15.4	0.000050	0.00250	0.00250	0.00340	0.0100	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	1	5	
	Standard Deviation	0.38	0.00000	0.00000	0.03	0.000000	0.000000	0.5	0.5	0.000000	0.00000	0.00000	0.00120	0.0000	
	1st Quartile	7.24	<0.0010	<0.0010	7.28	<0.00020	<0.00020	4.9	15	<0.00010	<0.0050	<0.0050	0.0041	<0.020	
	Median	7.74	<0.0010	<0.0010	7.3	<0.00020	<0.00020	5.3	15	<0.00010	<0.0050	<0.0050	0.0041	<0.020	
	3rd Quartile	7.9	<0.0010	<0.0010	7.31	<0.00020	<0.00020	5.3	16	<0.00010	<0.0050	<0.0050	0.0042	<0.020	
Lower Quinsam Lake 9M LQL9 E292118	Average	7.39	0.00050	0.00050	7.23	0.000100	0.000100	5.1	15.0	0.000050	0.00250	0.00250	0.0034	0.0122	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	6.73	<0.0010	<0.0010	7.14	<0.00020	<0.00020	4.0	14	<0.00010	<0.0050	<0.0050	0.0030	<0.020	
	Maximum	7.88	<0.0010	<0.0010	7.27	<0.00020	<0.00020	5.5	16	<0.00010	<0.0050	<0.0050	0.0039	0.021	
	Geometric Mean	7.38	0.00050	0.00050	7.23	0.000100	0.000100	5.0	15.0	0.000050	0.00250	0.00250	0.0033	0.0116	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	0	4	
	Standard Deviation	0.44	0.00000	0.00000	0.05	0.000000	0.000000	0.6	0.7	0.000000	0.00000	0.00000	0.0004	0.0049	
	1st Quartile	7.2	<0.0010	<0.0010	7.24	<0.00020	<0.00020	5	15	<0.00010	<0.0050	<0.0050	0.0031	<0.020	
	Median	7.52	<0.0010	<0.0010	7.24	<0.00020	<0.00020	5.4	15	<0.00010	<0.0050	<0.0050	0.0033	<0.020	
	3rd Quartile	7.64	<0.0010	<0.0010	7.26	<0.00020	<0.00020	5.4	15	<0.00010	<0.0050	<0.0050	0.0035	<0.020	
Lower Quinsam Lake 1MB LQLB E292118	Average	7.26	0.00050	0.00050	7.06	0.000100	0.000100	4.8	15.2	0.000050	0.00250	0.00250	0.0039	0.0148	
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum	6.57	<0.0010	<0.0010	6.9	<0.00020	<0.00020	3.8	15	<0.00010	<0.0050	<0.0050	0.0034	<0.020	
	Maximum	8.08	<0.0010	<0.0010	7.18	<0.00020	<0.00020	5.2	16	<0.00010	<0.0050	<0.0050	0.0041	0.034	
	Geometric Mean	7.24	0.00050	0.00050	7.06	0.000100	0.000100	4.8	15.2	0.000050	0.00250	0.00250	0.0039	0.0128	
	Count <DL	0	5	5	0	5	5	0	0	5	5	5	0	4	
	Standard Deviation	0.59	0.00000	0.00000	0.10	0.000000	0.000000	0.6	0.4	0.000000	0.00000	0.00000	0.0003	0.0107	
	1st Quartile	6.85	<0.0010	<0.0010	7.04	<0.00020	<0.00020	4.9	15	<0.00010	<0.0050	<0.0050	0.0039	<0.020	
	Median	7.3	<0.0010	<0.0010	7.08	<0.00020	<0.00020	4.9	15	<0.00010	<0.0050	<0.0050	0.0039	<0.020	
	3rd Quartile	7.49	<0.0010	<0.0010	7.1	<0.00020	<0.00020	5.1	15	<0.00010	<0.0050	<0.0050	0.0041	<0.020	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Settling Pond #4 WD E207409	Average	0.00165	0.001135	0.02834	0.00701	358	0.735	0.00000751	0.000270	0.268	0.0207	0.0531	0.0640	334
	Count	9	15	9	15	15	9	15	15	9	15	9	15	9
	Minimum	0.00040	0.000367	<0.0030	<0.0030	190	0.615	<0.0000050	<0.00020	0.114	0.0078	0.0181	0.0079	224
	Maximum	0.00584	0.00441	0.0878	0.0284	500	0.861	0.000025	0.000753	0.421	0.0339	0.0985	0.131	423
	Geometric Mean	0.00127	0.000954	0.01462	0.00420	350	0.730	0.00000581	0.000221	0.239	0.0182	0.0446	0.0497	327
	Count <DL	0	0	1	8	0	0	13	6	0	1	0	0	0
	Standard Deviation	0.00161	0.000945	0.03131	0.00752	72	0.088	0.00000720	0.000182	0.123	0.0098	0.0310	0.0392	70
	1st Quartile	0.00098	0.00076	0.0079	0.0015	325	0.681	5.00E-06	0.0001	0.135	0.0106	0.0275	0.0276	287
	Median	0.00121	0.00087	0.0165	0.006	360	0.731	<0.000010	0.000242	0.295	0.0207	0.0558	0.067	326
	3rd Quartile	0.00142	0.001155	0.0271	0.00925	395	0.8	5.00E-06	0.00032	0.379	0.0291	0.0685	0.0895	416
North Pit Culvert WC E207411	Average	0.00058	0.000554	0.0121	0.00943	287	0.660	0.00000444	0.000228	0.058	0.0178	0.0088	0.00876	255
	Count	9	9	9	9	4	9	9	9	9	9	9	9	9
	Minimum	0.00033	0.000375	0.0034	<0.0030	240	0.477	<0.0000050	<0.00020	0.017	0.0096	0.0041	0.00389	179
	Maximum	0.00093	0.00086	0.0219	0.0186	340	0.845	<0.000010	0.000442	0.093	0.0408	0.0156	0.0163	325
	Geometric Mean	0.00055	0.000538	0.0094	0.00650	284	0.645	0.00000429	0.000191	0.051	0.0159	0.0082	0.00810	250
	Count <DL	0	0	0	2	0	0	9	4	0	0	0	0	0
	Standard Deviation	0.00020	0.000149	0.0078	0.00684	45	0.147	0.00000110	0.000135	0.028	0.0100	0.0035	0.00374	54
	1st Quartile	0.00045	0.00046	0.0045	0.003	255	0.524	<0.000010	<0.00020	0.038	0.012	0.007	0.0064	210
	Median	0.00052	0.0005	0.0156	0.0105	285	0.696	<0.000010	0.000246	0.049	0.0136	0.008	0.0076	247
	3rd Quartile	0.00063	0.000632	0.0177	0.0153	317	0.786	<0.000010	0.00032	0.081	0.0211	0.0105	0.0107	309
Settling Pond # 1 SPD E218582	Average	0.00214	0.00214	0.0300	0.01451	102.9	0.209	0.00000604	0.000231	0.152	0.0876	0.0461	0.0451	284
	Count	6	12	6	12	12	6	12	12	6	12	6	12	6
	Minimum	0.00084	0.00129	0.0048	<0.0030	53	0.063	<0.0000050	<0.00020	0.077	0.0236	0.0301	0.0146	118
	Maximum	0.00366	0.00359	0.0522	0.0390	140	0.346	<0.000050	<0.0010	0.205	0.177	0.0676	0.0748	398
	Geometric Mean	0.00192	0.00202	0.0215	0.00712	98.8	0.173	0.00000481	0.000196	0.145	0.0739	0.0439	0.0396	255
	Count <DL	0	0	0	5	0	0	12	6	0	0	0	0	0
	Standard Deviation	0.00104	0.00082	0.0217	0.01396	27.5	0.121	0.00000607	0.000131	0.045	0.0497	0.0161	0.0218	126
	1st Quartile	0.00162	0.00162	0.0122	0.0015	92.2	0.106	4.38E-06	0.0001	0.134	0.0529	0.033	0.0287	178
	Median	0.00183	0.00178	0.0308	0.0132	110	0.221	5.00E-06	0.000263	0.162	0.0825	0.0423	0.0412	333
	3rd Quartile	0.0028	0.00268	0.0491	0.02125	120	0.308	5.00E-06	0.000299	0.178	0.1208	0.0589	0.0677	382
Culvert into Long Lake LLE E292130	Average	0.00084	0.000717	0.0544	0.02512	77	0.1758	0.00000763	0.000389	0.318	0.1880	0.0438	0.0446	223.3
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00041	<0.00050	0.0058	<0.0030	35	<0.050	<0.0000050	<0.00020	0.129	0.0834	0.0110	0.0105	90.8
	Maximum	0.00151	0.00134	0.133	0.0465	190	0.462	<0.000050	0.000706	1.03	0.563	0.215	0.217	472
	Geometric Mean	0.00078	0.000655	0.0388	0.01667	66	0.1340	0.00000548	0.000335	0.257	0.1614	0.0278	0.0281	195.6
	Count <DL	0	1	0	2	0	1	11	3	0	0	0	0	0
	Standard Deviation	0.00033	0.000310	0.0378	0.01521	52	0.1408	0.00000796	0.000186	0.270	0.1346	0.0576	0.0582	129.6
	1st Quartile	0.00068	0.000542	0.0269	0.01715	44	0.0942	4.38E-06	0.000302	0.178	0.12	0.016	0.0155	139.2
	Median	0.00074	0.000664	0.0483	0.02755	58	0.1275	5.00E-06	0.000405	0.226	0.1375	0.0217	0.0241	181
	3rd Quartile	0.00096	0.000865	0.0814	0.03528	71	0.1908	5.00E-06	0.000485	0.286	0.1825	0.0369	0.0397	241

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Settling Pond #4 WD E207409	Average	234.4	0.00104	0.00110	7.54	0.000100	0.00010775	177	441	0.000078	0.00250	0.00318	0.00205	0.0385	0.0221
	Count	15	9	15	53	9	15	15	53	15	9	15	4	6	6
	Minimum	184	<0.0010	<0.0010	7.03	<0.00020	<0.0000050	102	200	0.000044	<0.0050	0.00133	<0.0030	<0.020	<0.015
	Maximum	260	0.0029	0.00314	7.9	<0.00020	<0.0010	287	790	<0.00050	<0.0050	<0.025	0.0037	0.117	0.059
	Geometric Mean	233.4	0.00084	0.00087	7.54	0.000100	0.00006063	171	420	0.000064	0.00250	0.00275	0.00188	0.0238	0.0159
	Count <DL	0	5	9	0	9	13	0	0	11	9	12	3	3	3
	Standard Deviation	21.2	0.00082	0.00085	0.19	0.000000	0.00011525	47	143	0.000061	0.00000	0.00262	0.00110	0.0425	0.0201
	1st Quartile	226	<0.0010	0.0005	7.46	<0.00020	0.0001	149	360	5.00E-05	<0.0050	0.0025	0.0015	0.01	0.0075
	Median	235	<0.0010	<0.0010	7.59	<0.00020	<0.00020	174	410	<0.00010	<0.0050	<0.0050	0.0015	0.019	0.0162
	3rd Quartile	250	0.0013	0.00134	7.66	<0.00020	0.0001	204	520	5.00E-05	<0.0050	0.0025	0.00205	0.049	0.0258
North Pit Culvert WC E207411	Average	202	0.00050	0.000552	8.07	0.000100	0.00007900	135.3	390	0.0000618	0.00250	0.00201	0.00150	0.0130	0.0075
	Count	9	9	9	14	9	9	9	15	9	9	9	2	4	4
	Minimum	129	<0.0010	<0.0010	7.49	<0.00020	<0.0000050	80.0	220	<0.000040	<0.0050	0.00026	<0.0030	<0.020	<0.015
	Maximum	248	<0.0010	0.000825	8.29	<0.00020	<0.00020	184	610	0.00014	<0.0050	<0.0050	<0.0030	0.022	<0.015
	Geometric Mean	198	0.00050	0.000544	8.07	0.000100	0.00005047	131.6	382	0.0000544	0.00250	0.00157	0.00150	0.0122	0.0075
	Count <DL	0	9	7	0	9	8	0	0	7	9	7	2	3	4
	Standard Deviation	39	0.00000	0.000113	0.22	0.000000	0.00004170	32.7	85	0.0000351	0.00000	0.00096	0.00000	0.0060	0.0000
	1st Quartile	189	<0.0010	<0.0010	8.05	<0.00020	<0.00020	118	360	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	Median	207	<0.0010	<0.0010	8.09	<0.00020	<0.00020	137	380	<0.00010	<0.0050	<0.0050	0.0015	0.01	0.0075
	3rd Quartile	233	<0.0010	<0.0010	8.23	<0.00020	<0.00020	149	420	<0.00010	<0.0050	<0.0050	0.0015	0.013	0.0075
Settling Pond # 1 SPD E218582	Average	32.38	0.00050	0.000642	7.40	0.000100	0.00011646	114.3	306.980769	0.0000763	0.00425	0.00449	0.0096	0.0100	0.044
	Count	12	6	12	52	6	12	12	52	12	6	12	2	2	2
	Minimum	8.85	<0.0010	0.000308	6.5	<0.00020	<0.0000050	36.0	16	<0.000040	<0.0050	0.00045	0.0083	<0.020	0.029
	Maximum	60.6	<0.0010	<0.0050	7.93	<0.00020	<0.0010	180	450	<0.00050	0.0100	0.0218	0.011	<0.020	0.059
	Geometric Mean	29.07	0.00050	0.000538	7.39	0.000100	0.00006144	106.4	279.794725	0.0000620	0.00359	0.00243	0.0096	0.0100	0.041
	Count <DL	0	6	9	0	6	11	0	0	9	4	8	0	2	0
	Standard Deviation	14.21	0.00000	0.000588	0.37	0.000000	0.00012643	38.9	98.3541999	0.0000619	0.00306	0.00629	0.0019	0.0000	0.021
	1st Quartile	24.42	0.0005	0.0005	7.17	0.0001	9.81E-05	93.8	257.5	5.00E-05	0.0025	0.00213	0.009	0.01	0.036
	Median	31.4	0.0005	0.0005	7.5	0.0001	0.0001	126.5	345	5.00E-05	0.0025	0.0025	0.0096	0.01	0.044
	3rd Quartile	43.62	0.0005	0.0005	7.72	0.0001	0.0001	138.5	362.5	7.30E-05	0.00475	0.0025	0.0103	0.01	0.052
Culvert into Long Lake LLE E292130	Average	21.80	0.00050	0.000597	7.27	0.000100	0.0001108	69.2	191	0.0000629	0.00293	0.00340	0.0058	0.0198	0.0122
	Count	12	12	12	51	12	12	12	52	12	12	12	12	12	12
	Minimum	6.54	<0.0010	0.000186	6.55	<0.00020	0.0000069	23.1	62	<0.000040	<0.0050	0.00050	0.0038	<0.020	<0.015
	Maximum	53.5	<0.0010	<0.0050	8.17	<0.00020	<0.0010	140	400	<0.00050	0.0077	<0.025	0.0092	0.063	0.034
	Geometric Mean	17.97	0.00050	0.000466	7.26	0.000100	0.0000632	60.3	168	0.0000515	0.00275	0.00226	0.0056	0.0154	0.0102
	Count <DL	0	12	9	0	12	9	0	0	10	11	8	0	8	9
	Standard Deviation	15.51	0.00000	0.000612	0.30	0.000000	0.0001290	38.3	97	0.0000596	0.00150	0.00357	0.0017	0.0173	0.0090
	1st Quartile	12.23	0.0005	0.000442	7.1	0.0001	7.83E-05	44.1	110	4.88E-05	0.0025	0.00209	0.0048	0.01	0.0075
	Median	16.05	0.0005	0.0005	7.28	0.0001	0.0001	61.6	170	5.00E-05	0.0025	0.0025	0.0055	0.01	0.0075
	3rd Quartile	22.45	0.0005	0.0005	7.44	0.0001	0.0001	79.4	222	5.00E-05	0.0025	0.0025	0.006	0.0242	0.0109

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seep into Long Lake LLS E292131	Average	0.00221	0.00186	0.00600	0.00444	206.0	0.481	0.00000750	0.000233	0.925	0.597	0.234	0.253	618.2
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00170	0.00058	<0.0030	0.00127	190	0.456	<0.0000050	<0.00020	0.796	0.183	0.194	0.207	572
	Maximum	0.00256	0.00238	0.0203	<0.015	230	0.509	<0.000050	<0.0010	1.22	0.885	0.274	0.298	657
	Geometric Mean	0.00219	0.00167	0.00324	0.00363	205.6	0.481	0.00000455	0.000194	0.913	0.519	0.232	0.251	617.4
	Count <DL	0	0	3	1	0	0	5	2	0	0	0	0	0
	Standard Deviation	0.00031	0.00074	0.00815	0.00279	15.2	0.025	0.00000984	0.000166	0.175	0.295	0.033	0.036	34.2
	1st Quartile	0.00224	0.00198	<0.0030	0.00232	200	0.456	<0.0000050	0.000125	0.808	0.429	0.209	0.231	597
	Median	0.00226	0.00205	<0.0030	0.004	200	0.482	<0.0000050	0.000154	0.858	0.638	0.24	0.253	623
	3rd Quartile	0.00231	0.00233	0.0052	0.0071	210	0.503	<0.000010	0.000287	0.941	0.852	0.254	0.274	642
Long Lake Middle Seep LLSM E292131	Average	0.00114	0.000663	0.1686	0.01866	138	0.373	0.00000950	0.000714	0.731	0.2190	0.1018	0.0993	480
	Count	6	6	6	6	6	6	6	6	6	6	6	6	6
	Minimum	0.00019	<0.00050	0.0057	0.00634	13	0.332	<0.0000050	0.00036	0.073	0.062	0.0315	0.0320	426
	Maximum	0.00421	0.00138	0.936	0.0733	180	0.442	<0.000050	0.00227	3.40	0.667	0.252	0.217	556
	Geometric Mean	0.00063	0.000544	0.0264	0.01115	106	0.371	0.00000649	0.000534	0.268	0.1545	0.0740	0.0743	478
	Count <DL	0	1	0	1	0	0	4	1	0	0	0	0	0
	Standard Deviation	0.00154	0.000456	0.3760	0.02679	65	0.042	0.00000909	0.000764	1.314	0.2286	0.0903	0.0809	49
	1st Quartile	0.00032	0.00032	0.0098	0.00705	132	0.348	3.12E-06	0.000376	0.122	0.0923	0.0392	0.039	441
	Median	0.0005	0.000509	0.019	0.00792	170	0.356	5.50E-06	0.00039	0.174	0.1264	0.0584	0.0626	475
	3rd Quartile	0.00101	0.000932	0.0237	0.00927	177	0.394	1.35E-05	0.000474	0.391	0.2198	0.148	0.1583	508
7S Surface Decant 7SSD E292069	Average	0.00063	0.000626	0.03054	0.00371	126.8	0.0326	0.00000850	0.000725	0.1032	0.02566	0.1103	0.0991	122.8
	Count	5	5	5	5	5	5	5	5	5	5	5	5	5
	Minimum	0.00015	0.000219	<0.0030	<0.0030	73	<0.050	<0.0000050	0.000394	<0.010	<0.0050	0.0094	0.0044	73.8
	Maximum	0.00152	0.00149	0.0867	<0.015	170	0.063	<0.000050	0.00136	0.265	0.0960	0.414	0.417	165
	Geometric Mean	0.00047	0.000502	0.01537	0.00299	120.4	0.0301	0.00000601	0.000653	0.0555	0.01166	0.0485	0.0306	116.6
	Count <DL	0	0	1	3	0	4	5	1	1	2	0	0	0
	Standard Deviation	0.00053	0.000503	0.03354	0.00265	42.8	0.0170	0.00000929	0.000394	0.1018	0.03950	0.1707	0.1780	41.5
	1st Quartile	0.00029	0.00033	0.0084	<0.0030	91	<0.050	<0.000010	<0.0010	0.042	0.0069	0.0314	0.0214	83.2
	Median	0.00058	0.00053	0.0274	0.00263	140	<0.050	<0.000010	0.00052	0.071	0.0104	0.0365	0.0231	140
	3rd Quartile	0.00063	0.00056	0.0287	0.0054	160	<0.050	<0.000010	0.00085	0.133	<0.025	0.0604	0.0296	152
Stream 1 7S 7S E292109	Average	0.000075	0.000087	0.0612	0.0244	51	0.0250	0.00000625	0.000290	0.0357	0.00482	0.00182	0.000576	15.8
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	<0.00010	<0.00010	0.0156	0.0159	12	<0.050	<0.0000050	0.00020	<0.010	<0.0050	<0.0010	0.000054	11.9
	Maximum	0.00030	<0.00050	0.373	0.0372	200	<0.050	<0.000050	<0.0010	0.296	<0.025	0.0137	<0.0050	26.0
	Geometric Mean	0.000060	0.000075	0.0328	0.0234	27	0.0250	0.00000477	0.000281	0.0087	0.00410	0.00070	0.000338	15.3
	Count <DL	9	6	0	0	0	10	10	1	8	6	9	7	0
	Standard Deviation	0.000079	0.000063	0.1099	0.0074	70	0.0000	0.00000669	0.000083	0.0916	0.00319	0.00417	0.000704	4.3
	1st Quartile	5.00E-05	5.00E-05	0.0196	0.0177	14	0.025	3.12E-06	0.00024	0.005	0.0025	0.0005	0.000233	13
	Median	5.00E-05	6.40E-05	0.0285	0.0229	18	0.025	5.00E-06	0.000276	0.005	0.0038	0.0005	0.0005	13.8
	3rd Quartile	5.00E-05	8.30E-05	0.0353	0.03	28	0.025	5.00E-06	0.000299	0.005	0.0059	0.0005	0.0005	17.5

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seep into Long Lake	Average	80.8	0.0016	0.00180	7.18	0.000100	0.00012466	212.2	576.0	0.0001098	0.00250	0.00353			
LLS	Count	5	5	5	5	5	5	5	5	5	5	5			
E292131	Minimum	73.0	0.0013	0.0015	6.76	<0.00020	<0.0000050	196	530	<0.000040	<0.0050	0.00080			
	Maximum	99.2	0.0020	<0.0050	7.47	<0.00020	<0.0010	255	610	<0.00050	<0.0050	<0.025			
	Geometric Mean	80.2	0.0016	0.00177	7.17	0.000100	0.00002525	211.1	574.7	0.0000795	0.00250	0.00185			
	Count <DL	0	0	1	0	5	3	0	0	3	5	2			
	Standard Deviation	10.7	0.0003	0.00041	0.31	0.000000	0.00021364	25.0	42.2	0.0000896	0.00000	0.00506			
	1st Quartile	73.8	0.0015	0.00156	6.93	<0.00020	5.30E-06	197	530	<0.00010	<0.0050	0.00083			
	Median	78	0.0015	0.00161	7.34	<0.00020	1.55E-05	199	600	9.50E-05	<0.0050	0.00104			
	3rd Quartile	79.8	0.0018	0.00185	7.39	<0.00020	<0.00020	214	610	0.000134	<0.0050	<0.0050			
Long Lake Middle Seep	Average	61.6	0.00282	0.00311	7.27	0.000100	0.00011792	162.3	445	0.000140	0.00432	0.00493			
LLSM	Count	6	6	6	6	6	6	6	6	6	6	6			
E292131	Minimum	50.3	<0.0010	0.00109	6.81	<0.00020	<0.0000050	137	390	<0.00010	<0.0050	0.00074			
	Maximum	77.0	0.0113	0.0104	7.5	<0.00020	<0.0010	189	520	<0.00050	0.0134	<0.025			
	Geometric Mean	60.9	0.00143	0.00211	7.27	0.000100	0.00002068	160.8	442	0.000120	0.00331	0.00266			
	Count <DL	0	2	1	0	6	6	0	0	2	5	2			
	Standard Deviation	10.0	0.00421	0.00363	0.30	0.000000	0.00019318	24.1	49	0.000078	0.00445	0.00552			
	1st Quartile	54.3	0.00065	0.00111	7.09	0.0001	2.50E-06	140.8	415	8.20E-05	0.0025	0.00106			
	Median	60.1	0.00115	0.0018	7.44	0.0001	5.13E-05	161	430	0.000128	0.0025	0.00194			
	3rd Quartile	67.1	0.00202	0.00249	7.48	0.0001	0.0001	184.2	475	0.000192	0.0025	0.00925			
7S Surface Decant	Average	3.99	0.00050	0.000814	7.47	0.000100	0.00016050	3.98	8.2	0.0000840	0.00250	0.00412	0.0036		
7SSD	Count	5	5	5	5	5	5	5	5	5	5	5	1		
E292069	Minimum	2.91	<0.0010	0.000069	6.84	<0.00020	<0.0000050	<3.0	3.3	<0.000040	<0.0050	0.00062	0.0036		
	Maximum	5.97	<0.0010	<0.0050	8.33	<0.00020	<0.0010	<15	15	<0.00050	<0.0050	<0.025	0.0036		
	Geometric Mean	3.85	0.00050	0.000464	7.45	0.000100	0.00006598	3.25	7.2	0.0000574	0.00250	0.00261	0.0036		
	Count <DL	0	5	4	0	5	5	3	0	5	5	4	0		
	Standard Deviation	1.24	0.00000	0.000961	0.54	0.000000	0.00019443	2.60	4.7	0.0000937	0.00000	0.00475	0.0000		
	1st Quartile	3.03	<0.0010	<0.0010	7.26	<0.00020	<0.00020	<3.0	5.3	<0.00010	<0.0050	<0.0050	0.0036		
	Median	3.76	<0.0010	<0.0010	7.43	<0.00020	<0.00020	3.9	6.6	<0.00010	<0.0050	<0.0050	0.0036		
	3rd Quartile	4.3	<0.0010	<0.0010	7.49	<0.00020	<0.00020	5.5	11	<0.00010	<0.0050	<0.0050	0.0036		
Stream 1 7S	Average	1.71	0.00050	0.0005589	6.91	0.000100	0.00011075	2.10	2.3	0.0000610	0.00250	0.002787			
7S	Count	10	10	10	10	10	10	10	10	10	10	10			
E292109	Minimum	1.40	<0.0010	<0.000020	6.57	<0.00020	<0.0000050	<3.0	1.5	<0.000040	<0.0050	<0.00010			
	Maximum	2.28	<0.0010	<0.0050	7.36	<0.00020	<0.0010	<15	3.1	<0.00050	<0.0050	<0.025			
	Geometric Mean	1.69	0.00050	0.0002389	6.91	0.000100	0.00003884	1.76	2.2	0.0000446	0.00250	0.001134			
	Count <DL	0	10	8	0	10	10	10	0	10	10	8			
	Standard Deviation	0.28	0.00000	0.0007172	0.25	0.000000	0.00014428	1.90	0.6	0.0000679	0.00000	0.003592			
	1st Quartile	1.48	0.0005	0.0001572	6.76	0.0001	2.69E-05	1.5	1.7	2.75E-05	0.0025	0.000782			
	Median	1.64	0.0005	0.0005	6.9	0.0001	0.0001	1.5	2.4	5.00E-05	0.0025	0.0025			
	3rd Quartile	1.91	0.0005	0.0005	7.08	0.0001	0.0001	1.5	2.8	5.00E-05	0.0025	0.0025			

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
2 North Portal Sump 2NPS E283433	Average	0.00190	0.000308	0.6251	0.0200	280	0.722	0.0000192	0.000469	1.797	0.03393	0.2161	0.2115	690
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	0.00044	0.00018	0.0144	0.0081	130	0.375	<0.000020	<0.00040	0.164	<0.0050	0.0791	0.0837	363
	Maximum	0.0161	0.00040	5.70	0.0436	320	0.942	0.000040	0.00098	18.0	0.134	0.479	0.481	885
	Geometric Mean	0.00076	0.000302	0.0931	0.0176	272	0.705	0.0000166	0.000408	0.390	0.02034	0.1900	0.1891	673
	Count <DL	0	1	0	0	0	0	7	5	0	2	0	0	0
	Standard Deviation	0.00448	0.000064	1.6204	0.0111	56	0.150	0.0000108	0.000250	5.108	0.03833	0.1152	0.1088	148
	1st Quartile	0.00048	0.000265	0.0277	0.0138	287	0.713	1.00E-05	0.0002	0.208	0.01288	0.1182	0.1285	643
	Median	0.00056	0.000306	0.0437	0.0173	300	0.742	1.45E-05	0.000475	0.256	0.01825	0.2135	0.2005	690
	3rd Quartile	0.00065	0.000362	0.208	0.0216	310	0.805	2.62E-05	0.000558	0.332	0.03488	0.2668	0.2652	805
3-Mains 2North 3M2N	Average	0.000632	0.000576	0.03520	0.00959	384	0.749	0.00000688	0.000518	0.678	0.3204	0.1556	0.1616	374
	Count	12	12	12	12	12	12	12	12	12	12	12	12	12
	Minimum	<0.00020	<0.00020	<0.0030	0.00118	340	0.570	<0.0000050	<0.00020	0.220	0.0188	0.0998	0.0974	297
	Maximum	0.00402	0.00409	0.130	0.0386	480	1.16	0.000011	0.00161	3.02	2.86	0.347	0.303	433
	Geometric Mean	0.000380	0.000300	0.01604	0.00471	382	0.738	0.00000633	0.000291	0.477	0.1018	0.1467	0.1539	371
	Count <DL	1	2	1	5	0	0	8	6	0	0	0	0	0
	Standard Deviation	0.001070	0.001110	0.04076	0.01131	33	0.146	0.00000278	0.000564	0.794	0.8013	0.0655	0.0554	44
	1st Quartile	0.000312	0.000228	0.00512	0.0015	370	0.688	5.00E-06	0.0001	0.306	0.0578	0.119	0.1198	358
	Median	0.000345	0.000295	0.02095	0.00435	380	0.742	5.50E-06	0.0002	0.397	0.0781	0.1485	0.165	374
	3rd Quartile	0.000363	0.000318	0.04392	0.0144	390	0.775	1.00E-05	0.000989	0.541	0.136	0.162	0.18	414
1-Mains 2North 1M2N	Average	0.00648	0.006046	0.01180	0.00309	474	0.902	0.00000432	0.000220	2.867	2.7915	0.3093	0.3247	300
	Count	11	11	11	11	11	11	11	11	11	11	11	11	11
	Minimum	0.00038	0.000326	<0.0030	0.00083	340	0.786	<0.0000050	<0.00020	0.223	0.0870	0.0870	0.0782	213
	Maximum	0.0138	0.0132	0.0864	0.0196	520	0.989	<0.000010	0.00127	5.11	5.06	0.515	0.511	466
	Geometric Mean	0.00488	0.004597	0.00350	0.00181	471	0.899	0.00000414	0.000138	2.389	2.1055	0.2854	0.2961	292
	Count <DL	0	0	7	8	0	0	11	8	0	0	0	0	0
	Standard Deviation	0.00376	0.003380	0.02547	0.00548	47	0.074	0.00000117	0.000351	1.211	1.3405	0.1115	0.1196	73
	1st Quartile	0.0046	0.00458	0.0015	0.0015	475	0.851	3.75E-06	0.0001	2.435	2.24	0.2575	0.2555	241
	Median	0.00634	0.00649	<0.0030	<0.0030	480	0.907	<0.000010	<0.00020	3.21	2.71	0.313	0.331	300
	3rd Quartile	0.00879	0.007095	0.0056	0.0015	495	0.966	5.00E-06	0.000108	3.375	3.66	0.3755	0.4065	321
5 Mains 2North 5M#2	Average	0.00674	0.00726	0.00511	0.002046	554.0	0.873	0.00000425	0.0001227	0.696	0.710	0.138	0.146	186.9
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10
	Minimum	0.00559	0.00644	0.00088	<0.00050	540	0.760	<0.0000050	<0.000050	0.548	0.558	0.122	0.134	168
	Maximum	0.00758	0.00824	0.0382	0.00800	580	1.04	<0.000010	0.000309	0.937	0.999	0.198	0.205	263
	Geometric Mean	0.00672	0.00724	0.00197	0.001502	553.9	0.869	0.00000406	0.0001041	0.687	0.702	0.136	0.145	185.3
	Count <DL	0	0	8	8	0	0	10	8	0	0	0	0	0
	Standard Deviation	0.00060	0.00056	0.01163	0.002131	12.6	0.087	0.00000121	0.0000766	0.124	0.122	0.023	0.021	27.9
	1st Quartile	0.00662	0.007	0.0015	0.0015	550	0.824	3.12E-06	0.0001	0.63	0.641	0.124	0.137	176
	Median	0.00682	0.00732	0.0015	0.0015	550	0.85	5.00E-06	0.0001	0.661	0.677	0.13	0.138	177
	3rd Quartile	0.00712	0.00744	0.0015	0.0015	557.5	0.921	5.00E-06	0.0001	0.768	0.758	0.138	0.144	183.2

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
2 North Portal Sump 2NPS E283433	Average	178.8	0.0061	0.00448	7.44	0.000291	0.0001763	297	817	0.000120	0.01013	0.00766			
	Count	12	12	12	12	12	12	12	12	12	12	12			
	Minimum	82.5	0.0017	<0.0020	7.07	<0.00020	<0.000010	163	420	<0.00010	<0.0050	<0.0050			
	Maximum	210	0.0234	0.0088	7.69	0.00209	<0.0010	378	930	<0.00050	0.0479	0.0164			
	Geometric Mean	173.6	0.0045	0.00375	7.44	0.000153	0.0001111	290	798	0.000110	0.00585	0.00629			
	Count <DL	0	0	2	0	11	11	0	0	9	7	9			
	Standard Deviation	38.6	0.0060	0.00269	0.16	0.000568	0.0001269	58	159	0.000058	0.01312	0.00508			
	1st Quartile	173.8	0.0025	0.00272	7.4	0.0001	0.0001	278	835	0.0001	0.0025	0.005			
	Median	192.5	0.0034	0.0036	7.43	0.0001	0.0002	308	875	0.0001	0.00375	0.005			
	3rd Quartile	203	0.0078	0.00626	7.51	0.0002	0.0002	335	905	0.000104	0.01422	0.01212			
	Average	313.1	0.00148	0.001473	7.20	0.000108	0.00009415	247	687	0.0000538	0.00730	0.00331			0.111
	Count	12	12	12	12	12	12	12	12	12	12	12			12
	Minimum	277	<0.0010	0.000048	6.95	<0.00020	<0.0000050	170	410	<0.000040	<0.0050	0.00047			0.060
3-Mains 2North 3M2N	Maximum	348	0.0035	0.0035	7.49	<0.00040	<0.00040	294	820	<0.00020	0.0417	0.0104			0.20
	Geometric Mean	312.4	0.00119	0.000995	7.20	0.000106	0.00005841	245	678	0.0000486	0.00425	0.00269			0.106
	Count <DL	0	5	4	0	12	10	0	0	11	9	9			0
	Standard Deviation	22.2	0.00097	0.001033	0.13	0.000029	0.00006329	31	107	0.0000246	0.01125	0.00246			0.039
	1st Quartile	297.2	0.0005	0.0005	7.16	0.0001	7.98E-05	239	672	5.00E-05	0.0025	0.0025			0.09
	Median	319.5	0.0013	0.0014	7.22	0.0001	0.0001	250	715	5.00E-05	0.0025	0.0025			0.11
	3rd Quartile	326	0.0021	0.002125	7.24	0.0001	0.0001	269	752	5.12E-05	0.00635	0.00282			0.122
	Average	286.6	0.00062	0.000540	7.09	0.000295	0.00007495	160.0	431	0.0000447	0.00287	0.00349			0.199
	Count	11	11	11	11	11	11	11	11	11	11	11			10
	Minimum	249	<0.0010	0.000049	6.74	<0.00020	<0.0000050	94.2	250	<0.000040	<0.0050	0.00152			0.055
	Maximum	345	0.0018	0.00184	7.42	0.00126	<0.00020	248	640	0.000052	0.0066	0.0121			0.24
	Geometric Mean	285.4	0.00056	0.000373	7.09	0.000174	0.00004764	153.0	415	0.0000425	0.00273	0.00292			0.187
1-Mains 2North 1M2N	Count <DL	0	10	8	0	8	9	0	0	10	10	8			0
	Standard Deviation	28.7	0.00039	0.000467	0.19	0.000375	0.00004297	50.4	124	0.0000122	0.00124	0.00296			0.054
	1st Quartile	267.5	0.0005	0.0005	7.04	0.0001	5.68E-05	119.5	335	5.00E-05	0.0025	0.0025			0.195
	Median	285	<0.0010	<0.0010	7.14	<0.00020	<0.00020	158	410	<0.00010	<0.0050	<0.0050			0.22
	3rd Quartile	292.5	0.0005	0.0005	7.18	0.00034	0.0001	180.5	495	5.00E-05	0.0025	0.0025			0.228
	Average	247.1	0.000491	0.000527	7.18	0.000268	0.0000935	65.2	182	0.0000410	0.00277	0.00370			0.097
	Count	10	10	10	10	10	10	10	10	10	10	10			9
	Minimum	224	0.000407	0.000421	6.81	<0.00020	0.0000087	51.4	150	<0.000040	0.00191	0.00122			0.091
	Maximum	321	<0.0010	0.000675	7.55	0.00061	0.000155	127	330	<0.00010	0.0058	0.0128			0.11
	Geometric Mean	245.7	0.000490	0.000522	7.17	0.000218	0.0000791	62.9	176	0.0000380	0.00265	0.00296			0.097
	Count <DL	0	9	7	0	4	7	0	0	10	8	7			0
	Standard Deviation	29.4	0.000029	0.000081	0.24	0.000169	0.0000361	22.1	54	0.0000145	0.00108	0.00337			0.006
	1st Quartile	230.2	0.0005	0.0005	7.02	0.0001	0.0001	56.8	152	2.75E-05	0.0025	0.0025			0.093
5 Mains 2North 5M#2	Median	235	0.0005	0.0005	7.12	0.000288	0.0001	58.3	165	5.00E-05	0.0025	0.0025			0.096
	3rd Quartile	250.2	0.0005	0.0005	7.36	0.00036	0.0001	62.1	185	5.00E-05	0.0025	0.0025			0.1

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
MW002	Average		0.00219		0.00683	280.0		0.0000092	0.000142		5.32		1.61	
	Count		3		3	3		3	3		3		3	
	Minimum		0.00201		<0.0030	280		<0.000010	<0.00020		5.23		1.36	
	Maximum		0.00233		0.0160	280		<0.000025	<0.00040		5.4		1.74	
	Geometric Mean		0.00218		0.00416	280.0		0.0000085	0.000136		5.32		1.60	
	Count <DL		0		2	0		3	3		0		0	
	Standard Deviation		0.00016		0.00797	0.0		0.0000038	0.000052		0.09		0.22	
	1st Quartile		0.00212		0.00225	280		7.50E-06	0.000112		5.28		1.54	
	Median		0.00222		<0.0060	280		<0.000020	<0.00025		5.32		1.73	
	3rd Quartile		0.00228		0.0095	280		1.12E-05	0.000162		5.36		1.74	
MW004	Average		0.000695		0.00867	113.5		0.00000438	0.000837		0.02442		0.0198	
	Count		4		4	4		4	4		4		4	
	Minimum		0.00039		0.0046	94		<0.0000050	0.000578		<0.0050		0.0072	
	Maximum		0.00100		0.0107	130		0.0000050	0.00104		0.0760		0.0491	
	Geometric Mean		0.000651		0.00824	112.7		0.00000420	0.000817		0.01119		0.0146	
	Count <DL		0		0	0		3	0		1		0	
	Standard Deviation		0.000276		0.00279	15.4		0.00000125	0.000204		0.03464		0.0197	
	1st Quartile		0.00051		0.00804	106		4.38E-06	0.00073		0.0055		0.01	
	Median		0.000694		0.0097	115		5.00E-06	0.000865		0.0096		0.0114	
	3rd Quartile		0.000879		0.01032	122.5		5.00E-06	0.000972		0.02852		0.0212	
QU1009D	Average		0.112		0.00136	180.0		0.00000375	0.0000625		0.456		0.0396	
	Count		2		2	2		2	2		2		2	
	Minimum		0.111		0.00123	180		<0.0000050	<0.000050		0.454		0.0395	
	Maximum		0.112		<0.0030	180		<0.000010	<0.00020		0.459		0.0397	
	Geometric Mean		0.111		0.00136	180.0		0.00000354	0.0000500		0.456		0.0396	
	Count <DL		0		1	0		2	2		0		0	
	Standard Deviation		0.001		0.00019	0.0		0.00000177	0.0000530		0.004		0.0001	
	1st Quartile		0.111		0.0013	180		3.12E-06	4.38E-05		0.455		0.0396	
	Median		0.112		0.00136	180		3.75E-06	6.25E-05		0.456		0.0396	
	3rd Quartile		0.112		0.00143	180		4.38E-06	8.13E-05		0.458		0.0396	
QU1009S	Average		0.0834		0.00188	145.0		0.00000375	0.000174		4.36		0.355	
	Count		2		2	2		2	2		2		2	
	Minimum		0.0832		<0.0030	140		<0.0000050	<0.00020		4.29		0.352	
	Maximum		0.0837		0.00225	150		<0.000010	0.000249		4.42		0.358	
	Geometric Mean		0.0834		0.00184	144.9		0.00000354	0.000158		4.35		0.355	
	Count <DL		0		1	0		2	1		0		0	
	Standard Deviation		0.0004		0.00053	7.1		0.00000177	0.000105		0.09		0.004	
	1st Quartile		0.0833		0.00169	142.5		3.12E-06	0.000137		4.32		0.354	
	Median		0.0834		0.00188	145		3.75E-06	0.000174		4.36		0.355	
	3rd Quartile		0.0836		0.00206	147.5		4.38E-06	0.000212		4.39		0.356	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
MW002	Average	46.9		0.00214	6.60		0.0001042	425.7	1266	0.000443		0.00309			0.23
	Count	3		3	3		3	3	3	3		3			1
	Minimum	43.8		0.00203	6.44		<0.000025	401	1200	<0.000020		0.00176			0.23
	Maximum	52.7		0.0022	6.69		<0.00040	455	1400	0.00113		<0.010			0.23
	Geometric Mean	46.7		0.00214	6.60		0.0000630	425.1	1263	0.000224		0.00280			0.23
	Count <DL	0		0	0		3	0	0	2		2			0
	Standard Deviation	5.1		0.00010	0.14		0.0000938	27.3	115	0.000595		0.00170			0.00
	1st Quartile	44		0.00212	6.56		5.62E-05	411	1200	0.0001		0.00213			0.23
	Median	44.1		0.0022	6.68		<0.00020	421	1200	<0.00020		<0.0050			0.23
	3rd Quartile	48.4		0.0022	6.68		0.00015	438	1300	0.000615		0.00375			0.23
MW004	Average	27.9		0.00096	6.94		0.0000588	123.8	365.0	0.000053		0.00314			0.0178
	Count	4		4	4		4	4	4	4		4			2
	Minimum	22.4		<0.0010	6.63		<0.0000050	115	350	0.000044		<0.0050			<0.015
	Maximum	32.6		0.00155	7.44		<0.00020	129	380	0.000067		0.00399			0.028
	Geometric Mean	27.7		0.00084	6.93		0.00002692	123.6	364.8	0.000052		0.00307			0.0145
	Count <DL	0		2	0		3	0	0	2		2			1
	Standard Deviation	4.3		0.00054	0.35		0.00005151	6.2	12.9	0.000010		0.00076			0.0145
	1st Quartile	25.9		0.0005	6.79		1.64E-05	121.8	357.5	4.80E-05		0.0025			0.0126
	Median	28.4		0.0009	6.84		6.05E-05	125.5	365	5.00E-05		0.00304			0.0178
	3rd Quartile	30.4		0.00136	7		0.0001	127.5	372.5	5.40E-05		0.00368			0.0229
QU1009D	Average	36.2		0.0002550	7.36		0.00005125	21.0	61.0	0.0000350		0.001275			0.12
	Count	2		2	2		2	2	2	2		2			1
	Minimum	35.4		<0.000020	7.27		<0.0000050	20.4	61	<0.000040		<0.00010			0.12
	Maximum	37.1		<0.0010	7.45		<0.00020	21.5	61	<0.00010		<0.0050			0.12
	Geometric Mean	36.2		0.0000707	7.36		0.00001581	20.9	61.0	0.0000316		0.000354			0.12
	Count <DL	0		2	0		2	0	0	2		2			0
	Standard Deviation	1.2		0.0003465	0.13		0.00006894	0.8	0.0	0.0000212		0.001732			0.00
	1st Quartile	35.8		0.0001325	7.32		2.69E-05	20.7	61	2.75E-05		0.000662			0.12
	Median	36.2		0.000255	7.36		5.13E-05	21	61	3.50E-05		0.001275			0.12
	3rd Quartile	36.7		0.0003775	7.4		7.56E-05	21.2	61	4.25E-05		0.001887			0.12
QU1009S	Average	9.01		0.000316	6.73		0.0000585	36.8	100.0	0.0000350		0.00174			0.040
	Count	2		2	2		2	2	2	2		2			1
	Minimum	8.93		0.000131	6.7		0.0000170	36.1	100	<0.000040		0.00098			0.040
	Maximum	9.09		<0.0010	6.76		<0.00020	37.6	100	<0.00010		<0.0050			0.040
	Geometric Mean	9.01		0.000256	6.73		0.0000412	36.8	100.0	0.0000316		0.00157			0.040
	Count <DL	0		1	0		1	0	0	2		1			0
	Standard Deviation	0.11		0.000261	0.04		0.0000587	1.1	0.0	0.0000212		0.00107			0.000
	1st Quartile	8.97		0.000223	6.72		3.78E-05	36.5	100	2.75E-05		0.00136			0.04
	Median	9.01		0.000316	6.73		5.85E-05	36.8	100	3.50E-05		0.00174			0.04
	3rd Quartile	9.05		0.000408	6.74		7.92E-05	37.2	100	4.25E-05		0.00212			0.04

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0813A	Average		0.348		0.00339	202.9		0.00000464	0.000095		0.194		0.0350	
	Count		7		7	7		7	7		7		7	
	Minimum		0.317		<0.0030	180		<0.0000050	0.000063		0.153		0.0302	
	Maximum		0.368		0.00755	210		<0.000010	<0.00020		0.278		0.0447	
	Geometric Mean		0.347		0.00264	202.6		0.00000453	0.000094		0.189		0.0347	
	Count <DL		0		4	0		7	6		0		0	
	Standard Deviation		0.020		0.00268	11.1		0.00000094	0.000014		0.050		0.0051	
	1st Quartile		0.334		0.0015	200		5.00E-06	0.0001		0.162		0.0322	
	Median		0.356		<0.0030	210		<0.000010	<0.00020		0.169		0.0331	
	3rd Quartile		0.362		0.0051	210		5.00E-06	0.0001		0.218		0.0363	
QU0813B	Average		0.550		0.00289	134.0		0.00000400	0.0000762		0.494		0.152	
	Count		5		5	5		5	5		5		5	
	Minimum		0.509		<0.0030	130		<0.0000050	<0.000050		0.412		0.130	
	Maximum		0.581		0.00785	140		<0.000010	<0.00020		0.586		0.195	
	Geometric Mean		0.549		0.00223	133.9		0.00000379	0.0000675		0.491		0.150	
	Count <DL		0		3	0		5	4		0		0	
	Standard Deviation		0.026		0.00278	5.5		0.00000137	0.0000344		0.069		0.027	
	1st Quartile		0.55		<0.0030	130		<0.0000050	5.60E-05		0.447		0.13	
	Median		0.55		<0.0030	130		<0.000010	<0.00020		0.496		0.15	
	3rd Quartile		0.559		0.0021	140		<0.000010	<0.00020		0.531		0.154	
QU1410	Average	0.00383	0.0602	0.0384	0.00364	253	0.48	0.00001125	0.000291	13.5	1.994	0.530	1.058	574.0
	Count	1	10	1	10	10	1	10	10	1	10	1	10	1
	Minimum	0.00383	0.0283	0.0384	0.00057	180	0.48	<0.0000050	<0.00010	13.5	0.786	0.530	0.646	574
	Maximum	0.00383	0.107	0.0384	<0.015	330	0.48	<0.000050	0.00053	13.5	5.48	0.530	1.56	574
	Geometric Mean	0.00383	0.0527	0.0384	0.00260	244	0.48	0.00000810	0.000224	13.5	1.640	0.530	0.998	574.0
	Count <DL	0	0	0	4	0	0	10	5	0	0	0	0	0
	Standard Deviation	0.00000	0.0320	0.0000	0.00286	68	0.00	0.00000966	0.000194	0.0	1.430	0.000	0.377	0.0
	1st Quartile	0.00383	0.0324	0.0384	0.00148	190	0.48	5.00E-06	0.000139	13.5	0.903	0.53	0.718	574
	Median	0.00383	0.0492	0.0384	0.00245	230	0.48	5.00E-06	0.000225	13.5	1.79	0.53	0.95	574
	3rd Quartile	0.00383	0.0913	0.0384	0.0067	330	0.48	2.13E-05	0.0005	13.5	2.348	0.53	1.425	574
QU1011S	Average		0.000412		0.01654	66.0		0.0000105	0.000434		0.0626		0.0202	
	Count		2		2	2		2	2		2		2	
	Minimum		0.000355		0.00409	64		0.0000090	0.000199		0.0542		0.0158	
	Maximum		0.00047		0.0290	68		0.000012	0.00067		0.0710		0.0246	
	Geometric Mean		0.000408		0.01089	66.0		0.0000104	0.000365		0.0620		0.0197	
	Count <DL		0		0	0		0	0		0		0	
	Standard Deviation		0.000081		0.01761	2.8		0.00000021	0.000333		0.0119		0.0062	
	1st Quartile		0.000384		0.01032	65		9.80E-06	0.000317		0.0584		0.018	
	Median		0.000412		0.01654	66		1.05E-05	0.000434		0.0626		0.0202	
	3rd Quartile		0.000441		0.02277	67		1.12E-05	0.000552		0.0668		0.0224	
QU1013D	Average		0.001399		0.00254	534		0.00000400	0.000427		1.886		0.3221	
	Count		5		5	5		5	5		5		5	
	Minimum		0.000429		<0.0030	470		<0.0000050	<0.00020		0.208		0.0645	
	Maximum		0.00342		0.00409	610		<0.000010	0.00111		4.06		0.608	
	Geometric Mean		0.001090		0.00230	531		0.00000379	0.000256		1.073		0.2363	
	Count <DL		0		2	0		5	2		0		0	
	Standard Deviation		0.001181		0.00126	62		0.00000137	0.000454		1.680		0.2369	
	1st Quartile		0.000716		<0.0030	490		<0.0000050	<0.00020		0.302		0.119	
	Median		0.00112		0.0019	510		<0.000010	0.000146		1.86		0.31	
	3rd Quartile		0.00131		0.0037	590		<0.000010	0.00068		3		0.509	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0813A	Average	56.4		0.000432	7.57		0.0000903	19.0	51.4	0.0014271		0.00220			0.21
	Count	7		7	7		7	7	7	7		7			2
	Minimum	48.5		0.000027	7.46		0.0000320	14.5	46	<0.000040		0.00038			0.21
	Maximum	60.6		<0.0010	7.67		<0.00020	24.5	72	0.00471		<0.0050			0.21
	Geometric Mean	56.2		0.000330	7.57		0.0000850	18.8	50.8	0.0004867		0.00191			0.21
	Count <DL	0		6	0		6	0	0	2		6			0
	Standard Deviation	4.1		0.000179	0.07		0.0000257	3.2	9.3	0.0017060		0.00080			0.00
	1st Quartile	55.2		0.0005	7.52		0.0001	17.6	46.5	0.000315		0.0025			0.21
	Median	56.5		<0.0010	7.57		<0.00020	19.2	48	0.00071		<0.0050			0.21
	3rd Quartile	59.3		0.0005	7.6		0.0001	20	50.5	0.00196		0.0025			0.21
QU0813B	Average	33.5		0.000368	7.68		0.00006170	70.5	208	0.0000520		0.00171			0.17
	Count	5		5	5		5	5	5	5		5			2
	Minimum	29.6		0.000169	7.53		<0.0000050	57.3	160	<0.000040		0.00045			0.16
	Maximum	36.9		<0.0010	7.81		<0.00020	92.1	280	0.00012		<0.0050			0.18
	Geometric Mean	33.4		0.000324	7.68		0.00002724	69.5	204	0.0000413		0.00133			0.17
	Count <DL	0		3	0		4	0	0	4		3			0
	Standard Deviation	3.2		0.000181	0.10		0.00005246	13.9	45	0.0000409		0.00108			0.01
	1st Quartile	31.1		0.000169	7.64		6.00E-06	62.9	190	<0.000040		0.0006			0.16
	Median	33.6		<0.0010	7.67		<0.00020	64	190	<0.00010		<0.0050			0.17
	3rd Quartile	36.4		<0.0010	7.73		<0.00020	76.1	220	<0.00010		<0.0050			0.18
QU1410	Average	32.4	0.0080	0.00307	6.86	0.000200	0.0001986	443	1268	0.0001149	0.035	0.01039			0.101
	Count	10	1	10	10	1	10	10	10	10	1	10			4
	Minimum	15.8	0.0080	<0.0020	6.55	<0.00040	0.000018	268	790	<0.000080	0.035	<0.010			0.071
	Maximum	56.8	0.0080	0.00511	8.1	<0.00040	<0.0010	707	1900	<0.00050	0.035	0.0136			0.14
	Geometric Mean	28.4	0.0080	0.00285	6.85	0.000200	0.0000997	414	1192	0.0000841	0.035	0.00993			0.097
	Count <DL	0	0	4	0	1	4	0	0	8	0	4			0
	Standard Deviation	17.2	0.0000	0.00111	0.45	0.000000	0.0002145	172	464	0.0000956	0.000	0.00302			0.031
	1st Quartile	17.2	0.008	0.0025	6.66	<0.00040	3.88E-05	292	855	4.00E-05	0.035	0.0078			0.079
	Median	24.4	0.008	0.00288	6.73	<0.00040	8.15E-05	376	1125	6.95E-05	0.035	0.01165			0.096
	3rd Quartile	50	0.008	0.00378	6.83	<0.00040	0.000425	606	1750	0.0002125	0.035	0.0125			0.118
QU1011S	Average	3.06		0.000624	6.35		0.0000525	1.50	2.8	0.0000350		0.00156			
	Count	2		2	2		2	2	2	2		2			
	Minimum	2.38		<0.0010	6.32		0.0000050	<3.0	2.5	<0.000040		0.00063			
	Maximum	3.74		0.000749	6.37		<0.00020	<3.0	3.1	<0.00010		<0.0050			
	Geometric Mean	2.98		0.000612	6.34		0.0000224	1.50	2.8	0.0000316		0.00125			
	Count <DL	0		1	0		1	2	0	2		1			
	Standard Deviation	0.96		0.000176	0.04		0.0000672	0.00	0.4	0.0000212		0.00132			
	1st Quartile	2.72		0.000562	6.33		2.88E-05	1.5	2.6	2.75E-05		0.0011			
	Median	3.06		0.000624	6.35		5.25E-05	1.5	2.8	3.50E-05		0.00156			
	3rd Quartile	3.4		0.000687	6.36		7.62E-05	1.5	3	4.25E-05		0.00203			
QU1013D	Average	325.0		0.000276	6.99		0.00006808	107.2	298.6	0.0000562		0.00375			0.22
	Count	5		5	5		5	5	5	5		5			2
	Minimum	277		0.000033	6.69		<0.0000050	3.9	7.1	<0.000040		0.00024			0.19
	Maximum	367		<0.0010	7.45		<0.00020	227	650	0.000141		0.00700			0.24
	Geometric Mean	323.6		0.000186	6.99		0.00004120	43.6	112.2	0.0000426		0.00233			0.21
	Count <DL	0		2	0		3	0	0	4		2			0
	Standard Deviation	33.9		0.000216	0.35		0.00003984	102.3	290.1	0.0000497		0.00290			0.04
	1st Quartile	310		0.000118	6.7		6.70E-05	8.9	26	<0.000040		<0.0050			0.2
	Median	329		0.000231	6.84		7.09E-05	104	280	<0.00010		<0.0050			0.22
	3rd Quartile	342		<0.0010	7.28		<0.00020	192	530	<0.00010		0.0065			0.23

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU1105S	Average		0.0774		0.00181	284		0.00000450	0.0000850		1.300		0.1532	
	Count		5		5	5		5	5		5		5	
	Minimum		0.0536		0.00093	110		<0.0000050	<0.000050		0.758		0.0710	
	Maximum		0.105		0.0036	400		<0.000010	<0.00020		2.06		0.251	
	Geometric Mean		0.0746		0.00162	248		0.00000435	0.0000758		1.231		0.1412	
	Count <DL		0		3	0		5	5		0		0	
	Standard Deviation		0.0232		0.00103	142		0.00000112	0.0000335		0.487		0.0664	
	1st Quartile		0.0573		<0.0030	150		<0.000010	<0.00020		1.04		0.121	
	Median		0.0735		<0.0030	360		<0.000010	<0.00020		1.26		0.153	
	3rd Quartile		0.0975		<0.0030	400		<0.000010	<0.00020		1.38		0.17	
QU1105D	Average		0.00260		0.0104	374		0.0000225	0.000425		0.01050		0.0885	
	Count		5		5	5		5	5		5		5	
	Minimum		0.00080		0.0073	300		<0.000025	<0.00025		<0.0050		0.0458	
	Maximum		0.00505		0.022	430		<0.000050	<0.0010		<0.025		0.147	
	Geometric Mean		0.00197		0.0093	371		0.0000218	0.000379		0.00906		0.0811	
	Count <DL		0		3	0		5	5		5		0	
	Standard Deviation		0.00200		0.0065	51		0.0000056	0.000168		0.00447		0.0410	
	1st Quartile		0.0009		<0.015	350		<0.000050	<0.0010		<0.025		0.057	
	Median		0.00184		<0.015	380		<0.000050	<0.0010		<0.025		0.0829	
	3rd Quartile		0.00442		<0.015	410		<0.000050	<0.0010		<0.025		0.11	
QU1109S	Average	0.147	0.09385	1.3942	0.001340	376	1.17	0.00000417	0.0000957	4.537	1.0285	0.0271	0.0651	39.8
	Count	3	6	3	6	6	3	6	6	3	6	3	6	3
	Minimum	0.101	0.00210	0.0056	<0.00050	320	1.15	<0.0000050	<0.000050	0.056	0.0158	0.0114	0.0138	28.8
	Maximum	0.220	0.130	4.14	0.00179	500	1.20	<0.000010	0.000149	13.5	6.06	0.0538	0.309	55.3
	Geometric Mean	0.138	0.05743	0.0951	0.001146	372	1.17	0.00000397	0.0000848	0.349	0.0560	0.0215	0.0264	38.3
	Count <DL	0	0	0	5	0	0	6	5	0	0	0	0	0
	Standard Deviation	0.064	0.04719	2.3780	0.000546	64	0.03	0.00000129	0.0000398	7.762	2.4649	0.0232	0.1195	13.8
	1st Quartile	0.11	0.0975	0.0214	0.0015	337	1.16	3.12E-06	0.0001	0.056	0.0218	0.0138	0.015	32.1
	Median	0.119	0.103	0.0371	0.0015	365	1.17	5.00E-06	0.0001	0.056	0.0238	0.0162	0.0168	35.4
	3rd Quartile	0.169	0.12275	2.0886	0.0015	377	1.18	5.00E-06	0.0001	6.778	0.026	0.035	0.0189	45.3
QU1109M	Average	0.00856	0.00513	1.88090	0.00209	484.0	0.884	0.00000400	0.000082	6.08	4.52	0.223	0.187	213.7
	Count	3	5	3	5	5	3	5	5	3	5	3	5	3
	Minimum	0.00344	0.00243	<0.0030	<0.0030	470	0.813	<0.0000050	0.000052	3.73	3.33	0.148	0.152	179
	Maximum	0.0181	0.0133	5.60	0.0038	490	0.957	<0.000010	<0.00020	10.7	5.61	0.360	0.233	252
	Geometric Mean	0.00636	0.00410	0.07021	0.00195	483.9	0.882	0.00000379	0.000078	5.34	4.43	0.205	0.184	211.6
	Count <DL	0	0	1	2	0	0	5	3	0	0	0	0	0
	Standard Deviation	0.00827	0.00459	3.22090	0.00099	8.9	0.072	0.00000137	0.000025	4.00	1.05	0.119	0.034	36.6
	1st Quartile	0.00379	0.00292	0.02135	<0.0030	480	0.847	<0.0000050	5.70E-05	3.77	3.72	0.155	0.161	194.5
	Median	0.00414	0.00329	0.0412	0.00154	490	0.882	<0.000010	<0.00020	3.81	4.36	0.162	0.177	210
	3rd Quartile	0.01112	0.00371	2.8206	0.00213	490	0.92	<0.000010	<0.00020	7.25	5.6	0.261	0.21	231

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1105S	Average	118.4		0.000409	7.17		0.00008050	49.8	135	0.000980		0.00205			0.16
	Count	5		5	5		5	5	5	5		5			2
	Minimum	31.8		0.000043	6.92		<0.0000050	12.8	33	<0.00010		0.00027			0.13
	Maximum	185		<0.0010	7.33		<0.00020	99.2	260	0.00291		<0.0050			0.20
	Geometric Mean	94.6		0.000306	7.17		0.00004782	38.3	104	0.000465		0.00160			0.16
	Count <DL	0		4	0		5	0	0	1		4			0
	Standard Deviation	72.4		0.000204	0.17		0.00004360	35.3	92	0.001144		0.00100			0.05
	1st Quartile	48.3		<0.0010	7.1		<0.00020	18.5	54	0.0002		<0.0050			0.15
	Median	160		<0.0010	7.22		<0.00020	56.7	160	0.00078		<0.0050			0.16
	3rd Quartile	167		<0.0010	7.29		<0.00020	61.7	170	0.00096		<0.0050			0.18
QU1105D	Average	888		0.002010	7.66		0.0004025	250	204	0.0464		0.01014			0.38
	Count	5		5	5		5	5	5	5		5			2
	Minimum	835		<0.00010	7.55		<0.000025	57	110	0.0141		0.00072			0.37
	Maximum	962		<0.0050	7.85		<0.0010	525	310	0.0860		<0.025			0.39
	Geometric Mean	887		0.001143	7.66		0.0002391	195	185	0.0373		0.00706			0.38
	Count <DL	0		5	0		5	0	0	0		4			0
	Standard Deviation	49		0.001096	0.12		0.0002180	181	93	0.0320		0.00527			0.01
	1st Quartile	851		<0.0050	7.57		<0.0010	166	110	0.024		<0.025			0.38
	Median	887		<0.0050	7.64		<0.0010	175	210	0.0332		<0.025			0.38
	3rd Quartile	906		<0.0050	7.69		<0.0010	330	280	0.0748		<0.025			0.38
QU1109S	Average	217	0.00710	0.000349	7.75	0.002187	0.00006750	61.3	138	0.0027650	0.00430	0.001775			0.27
	Count	6	3	6	6	3	6	6	6	6	3	6			3
	Minimum	175	<0.0010	0.000034	7.1	<0.00020	<0.0000050	26.7	65	<0.000040	<0.0050	<0.00010			0.24
	Maximum	348	0.0203	<0.0010	8.02	0.00636	<0.00020	169	430	0.0117	0.0079	<0.0050			0.32
	Geometric Mean	211	0.00172	0.000224	7.74	0.000399	0.00002924	48.6	104	0.0008735	0.00367	0.001027			0.27
	Count <DL	0	2	4	0	2	6	0	0	1	2	5			0
	Standard Deviation	65	0.01143	0.000234	0.33	0.003614	0.00005035	54.2	143	0.0044132	0.00312	0.001137			0.04
	1st Quartile	178	0.0005	0.000169	7.78	0.0001	2.69E-05	30.3	67	0.00088	0.0025	0.001075			0.24
	Median	197	<0.0010	0.0005	7.85	<0.00020	0.0001	42.6	85	0.00117	<0.0050	0.0025			0.25
	3rd Quartile	211	0.0104	0.0005	7.9	0.00323	0.0001	56.2	100	0.0016025	0.0052	0.0025			0.29
QU1109M	Average	315.8	0.00423	0.000326	7.15	0.003257	0.00006100	141.2	392	0.0000380	0.00667	0.00168			0.26
	Count	5	3	5	5	3	5	5	5	5	3	5			3
	Minimum	287	<0.0010	0.000048	6.99	<0.00020	<0.0000050	109	320	<0.000040	<0.0050	0.00042			0.25
	Maximum	343	0.0117	<0.0010	7.29	0.00957	<0.00020	165	470	<0.00010	0.0150	<0.0050			0.27
	Geometric Mean	315.2	0.00143	0.000217	7.15	0.000457	0.00002287	139.2	387	0.0000347	0.00454	0.00125			0.26
	Count <DL	0	2	3	0	2	5	0	0	5	2	3			0
	Standard Deviation	22.5	0.00647	0.000239	0.13	0.005468	0.00005340	25.8	64	0.0000164	0.00722	0.00113			0.01
	1st Quartile	301	0.0005	8.10E-05	7.06	0.0001	<0.0000050	118	330	<0.000040	0.0025	0.00046			0.26
	Median	317	<0.0010	<0.0010	7.14	<0.00020	<0.00020	154	410	<0.00010	<0.0050	<0.0050			0.26
	3rd Quartile	331	0.0061	<0.0010	7.25	0.004835	<0.00020	160	430	<0.00010	0.00875	<0.0050			0.26

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
QU0821GS	Average		0.191		0.00323	192.5		0.00000688	0.000137		0.394		0.0402	
	Count		4		4	4		4	4		4		4	
	Minimum		0.171		0.00293	190		<0.0000050	<0.00010		0.303		0.0278	
	Maximum		0.208		0.0040	200		<0.000020	<0.00040		0.613		0.0592	
	Geometric Mean		0.190		0.00320	192.5		0.00000595	0.000118		0.377		0.0387	
	Count <DL		0		2	0		4	3		0		0	
	Standard Deviation		0.019		0.00051	5.0		0.00000375	0.000075		0.147		0.0135	
	1st Quartile		0.176		0.00298	190		4.38E-06	8.60E-05		0.319		0.0328	
	Median		0.192		0.003	190		7.50E-06	0.000149		0.329		0.0369	
	3rd Quartile		0.207		0.00325	192.5		1.00E-05	0.0002		0.404		0.0444	
QU0821GD														
	Average		0.177		0.0076	205.0		0.0000188	0.000313		1.196		0.0895	
	Count		4		4	4		4	4		4		4	
	Minimum		0.145		0.0058	200		<0.000025	<0.00025		0.764		0.0591	
	Maximum		0.222		0.0097	210		<0.000050	<0.0010		1.85		0.150	
	Geometric Mean		0.175		0.0075	204.9		0.0000177	0.000250		1.126		0.0830	
	Count <DL		0		2	0		4	4		0		0	
	Standard Deviation		0.032		0.0016	5.8		0.0000072	0.000217		0.489		0.0425	
	1st Quartile		0.163		0.0071	200		1.25E-05	0.000125		0.857		0.0603	
	Median		0.17		0.0075	205		1.88E-05	0.000312		1.084		0.0746	
	3rd Quartile		0.184		0.008	210		2.50E-05	0.0005		1.422		0.1038	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0821GS	Average	161.7		0.0006112	7.85		0.0001042	2.62	0.50	0.0000650		0.00298			0.21
	Count	4		4	4		4	4	4	4		4			1
	Minimum	99.8		<0.000020	7.71		0.0000060	<3.0	<1.0	<0.000040		0.00096			0.21
	Maximum	207		<0.0020	8.12		<0.00040	<6.0	<1.0	<0.00020		<0.010			0.21
	Geometric Mean	155.3		0.0002568	7.85		0.0000403	2.52	0.50	0.0000532		0.00219			0.21
	Count <DL	0		3	0		2	4	4	4		2			0
	Standard Deviation	49.9		0.0004813	0.18		0.0001106	0.75	0.00	0.0000412		0.00233			0.00
	1st Quartile	132.2		0.0003288	7.76		9.80E-06	2.62	0.5	3.50E-05		0.00096			0.21
	Median	170		0.0007175	7.79		0.0001055	3	0.5	7.00E-05		0.00298			0.21
	3rd Quartile	199.5		0.001	7.89		0.0002	3	0.5	0.0001		0.005			0.21
QU0821GD	Average	580		0.001738	7.41		0.0002562	7.5	2.75	0.000258		0.007638			0.43
	Count	4		4	4		4	4	4	4		4			1
	Minimum	476		<0.00010	7.32		<0.000025	<15	<1.0	<0.00020		<0.00050			0.43
	Maximum	713		<0.0050	7.56		<0.0010	<15	<10	0.00043		<0.025			0.43
	Geometric Mean	571		0.000878	7.41		0.0000791	7.5	1.58	0.000228		0.003793			0.43
	Count <DL	0		3	0		4	4	4	3		3			0
	Standard Deviation	112		0.001160	0.11		0.0002815	0.0	2.60	0.000135		0.005981			0.00
	1st Quartile	492		0.001438	7.34		1.25E-05	7.5	0.5	0.000213		0.004038			0.43
	Median	565		0.0022	7.38		0.0002562	7.5	2.75	0.00025		0.0089			0.43
	3rd Quartile	653		0.0025	7.46		0.0005	7.5	5	0.000295		0.0125			0.43

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L
Seepage (S)	Average	0.02933	0.02759	0.0528	0.00797	389	1.019	0.00000456	0.000213	1.088	0.2268	0.1337	0.1189	168.2
	Count	35	35	35	34	29	35	35	35	35	35	35	35	35
	Minimum	0.00359	0.00227	0.0060	<0.0030	180	0.431	<0.0000050	0.000091	0.100	0.0296	0.0148	0.0132	72.9
	Maximum	0.0804	0.0822	0.587	0.0468	490	1.71	0.000022	0.00123	3.59	1.27	0.320	0.282	285
	Geometric Mean	0.01815	0.01422	0.0232	0.00598	378	0.983	0.00000388	0.000171	0.584	0.1317	0.0900	0.0740	149.4
	Count <DL	0	0	0	2	0	0	34	10	0	0	0	0	0
	Standard Deviation	0.02620	0.02833	0.1043	0.00820	81	0.273	0.00000359	0.000208	1.094	0.2852	0.0982	0.0919	77.5
	1st Quartile	0.00804	0.00478	0.01	0.0036	360	0.866	2.50E-06	0.0001	0.156	0.0804	0.0342	0.0254	85.4
	Median	0.0117	0.01	0.0158	0.0063	410	0.968	<0.000010	0.000148	0.648	0.101	0.128	0.1	181
	3rd Quartile	0.05395	0.05065	0.0461	0.00823	440	1.145	5.00E-06	0.000205	1.45	0.196	0.221	0.21	233
Seep Upstream (SUS)	Average	0.0592	0.0575	0.0367	0.00696	370	1.310	0.00000375	0.0001146	0.202	0.144	0.0348	0.0340	82.0
	Count	12	12	12	12	11	12	12	12	12	12	12	12	12
	Minimum	0.0240	0.0225	0.0064	0.00240	100	0.474	<0.0000050	<0.000050	0.110	0.110	0.0157	0.0139	47.9
	Maximum	0.0889	0.0896	0.223	0.0365	470	1.73	<0.000010	0.000341	0.285	0.172	0.0512	0.0492	105
	Geometric Mean	0.0568	0.0549	0.0188	0.00493	348	1.258	0.00000354	0.0000960	0.196	0.143	0.0333	0.0324	80.3
	Count <DL	0	0	0	0	0	0	12	7	0	0	0	0	0
	Standard Deviation	0.0159	0.0166	0.0606	0.00937	104	0.319	0.00000131	0.0000788	0.053	0.018	0.0102	0.0101	16.9
	1st Quartile	0.0521	0.049	0.0086	0.00412	355	1.252	2.50E-06	9.05E-05	0.16	0.133	0.0294	0.0287	70
	Median	0.0594	0.0564	0.0132	0.00445	380	1.33	3.75E-06	0.0001	0.2	0.146	0.0344	0.0326	81.4
	3rd Quartile	0.0668	0.0663	0.0375	0.00471	440	1.535	5.00E-06	0.0001288	0.234	0.158	0.0443	0.0433	95.7
Seepage 2A (S2A)	Average	0.0318	0.0304	0.0433	0.00907	262	0.590	0.00000421	0.000185	0.642	0.5520	0.1326	0.1389	173.4
	Count	19	19	19	19	18	19	19	19	19	19	19	19	19
	Minimum	0.0146	0.0120	0.0034	<0.0030	140	0.298	<0.0000050	<0.00020	0.115	0.0930	0.0290	0.0270	84.5
	Maximum	0.0516	0.0549	0.297	0.0494	400	1.03	<0.000010	0.00063	1.53	1.35	0.253	0.299	277
	Geometric Mean	0.0299	0.0282	0.0190	0.00558	251	0.557	0.00000402	0.000162	0.479	0.3773	0.1138	0.1151	163.1
	Count <DL	0	0	0	3	0	0	19	7	0	0	0	0	0
	Standard Deviation	0.0105	0.0113	0.0712	0.01141	76	0.205	0.00000119	0.000123	0.457	0.4332	0.0635	0.0717	61.4
	1st Quartile	0.0222	0.0216	0.0096	0.00338	207	0.435	2.50E-06	0.0001	0.248	0.16	0.092	0.096	128
	Median	0.0344	0.0328	0.0143	0.0045	240	0.544	<0.000010	0.000174	0.5	0.427	0.139	0.149	139
	3rd Quartile	0.0375	0.0369	0.051	0.01099	327	0.71	5.00E-06	0.000213	1.08	0.955	0.1695	0.177	223.5
Seepage 2B (S2B)	Average	0.0335	0.0302	0.0266	0.00572	296	0.646	0.00000385	0.000162	0.656	0.576	0.1549	0.1525	213.7
	Count	13	13	13	13	12	13	13	13	13	13	13	13	13
	Minimum	0.0194	0.0181	0.0065	<0.0030	150	0.306	<0.0000050	0.000076	0.150	0.102	0.0299	0.0276	98.2
	Maximum	0.0437	0.0386	0.194	0.0302	390	0.863	<0.000010	0.000549	1.17	1.35	0.257	0.248	283
	Geometric Mean	0.0327	0.0296	0.0137	0.00406	286	0.619	0.00000363	0.000132	0.553	0.441	0.1315	0.1292	204.7
	Count <DL	0	0	0	2	0	0	13	6	0	0	0	0	0
	Standard Deviation	0.0072	0.0058	0.0511	0.00745	73	0.176	0.00000130	0.000140	0.338	0.369	0.0746	0.0725	58.9
	1st Quartile	0.0292	0.0275	0.0087	0.00367	245	0.521	<0.0000050	<0.00020	0.276	0.203	0.0764	0.0765	155
	Median	0.0362	0.0317	0.0099	0.00381	325	0.698	<0.000010	<0.00020	0.719	0.64	0.172	0.18	231
	3rd Quartile	0.0387	0.0336	0.0133	0.00498	342	0.758	<0.000010	0.000122	0.85	0.815	0.207	0.206	251
Seep 2 Upstream (S2US)	Average	0.0512	0.0508	0.0457	0.00541	316	0.730	0.00000375	0.000118	1.600	1.548	0.1587	0.1622	216
	Count	12	12	12	12	11	12	12	12	12	12	12	12	12
	Minimum	0.0262	0.0187	0.0100	<0.0030	170	0.338	<0.0000050	0.000080	0.372	0.182	0.0636	0.0576	133
	Maximum	0.0652	0.0632	0.294	0.0314	400	1.01	<0.000010	0.00023	2.59	2.39	0.215	0.219	263
	Geometric Mean	0.0498	0.0485	0.0260	0.00331	302	0.684	0.00000354	0.000112	1.383	1.191	0.1464	0.1483	211
	Count <DL	0	0	0	3	0	0	12	5	0	0	0	0	0
	Standard Deviation	0.0112	0.0131	0.0790	0.00835	87	0.238	0.00000131	0.000043	0.718	0.809	0.0563	0.0595	47
	1st Quartile	0.0488	0.0493	0.017	0.002	275	0.647	2.50E-06	0.0001	1.18	1.08	0.1396	0.1417	205
	Median	0.0552	0.0554	0.0192	0.00284	350	0.807	3.75E-06	0.0001	1.83	1.88	0.173	0.1825	237
	3rd Quartile	0.0571	0.0584	0.0309	0.00412	375	0.884	5.00E-06	0.000116	2.1	2.125	0.198	0.2112	245

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 52 Statistics 2023 to 2024 30 Page(s)

2024 - 2025	Statistic	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	N-NO23 mg/L	N-NH3 mg/L
Seepage (S)	Average	242	0.000490	0.0003431	7.66	0.0000974	0.00006376	94.6	259	0.0000432	0.00244	0.00297	0.0162	0.065	0.0558
	Count	35	35	35	37	35	35	35	35	35	35	35	4	9	12
	Minimum	108	0.000147	<0.000020	7.28	0.0000079	<0.0000050	37.3	100	<0.000040	0.00048	0.00041	0.0099	0.028	<0.015
	Maximum	346	<0.0010	<0.0020	8.24	<0.00020	0.00026	174	430	0.000107	<0.0050	0.0137	0.021	0.123	0.21
	Geometric Mean	232	0.000483	0.0002428	7.66	0.0000930	0.00002112	82.3	230	0.0000367	0.00238	0.00200	0.0154	0.057	0.0387
	Count <DL	0	34	19	0	34	29	0	0	33	34	16	0	0	2
	Standard Deviation	65	0.000060	0.0002512	0.21	0.0000156	0.00006768	47.2	118	0.0000261	0.00034	0.00312	0.0057	0.033	0.0531
	1st Quartile	196	0.0005	0.00013	7.54	0.0001	2.50E-06	46.4	135	2.00E-05	0.0025	0.0009	0.0122	0.038	0.0295
	Median	251	<0.0010	<0.0010	7.62	<0.00020	<0.00020	101	330	<0.00010	<0.0050	<0.0050	0.017	0.054	0.0475
	3rd Quartile	290	0.0005	0.0005	7.78	0.0001	0.0001	140.5	370	5.00E-05	0.0025	0.0025	0.021	0.08	0.064
Seep Upstream (SUS)	Average	208.5	0.00050	0.000296	7.51	0.000100	0.00004413	49.5	126	0.0005433	0.00281	0.00133	0.024	0.0100	0.181
	Count	12	12	12	14	12	12	12	12	12	12	12	3	7	7
	Minimum	58.3	<0.0010	0.000028	7.03	<0.00020	<0.0000050	18.6	57	<0.000040	<0.0050	0.00027	0.020	<0.020	0.064
	Maximum	270	<0.0010	<0.0010	7.76	<0.00020	<0.00020	73.2	190	0.00254	0.0062	<0.0050	0.029	<0.020	0.23
	Geometric Mean	197.1	0.00050	0.000214	7.51	0.000100	0.00001464	47.2	122	0.0001114	0.00270	0.00095	0.024	0.0100	0.169
	Count <DL	0	12	5	0	12	10	0	0	7	11	5	0	7	0
	Standard Deviation	56.3	0.00000	0.000193	0.20	0.000000	0.00004935	14.0	32	0.0008248	0.00107	0.00104	0.005	0.0000	0.057
	1st Quartile	195.2	0.0005	0.000141	7.4	0.0001	2.50E-06	45.8	120	2.00E-05	0.0025	0.00049	0.022	0.01	0.175
	Median	212	0.0005	0.00026	7.55	0.0001	7.30E-06	47.4	120	3.50E-05	0.0025	0.00067	0.023	<0.020	0.2
	3rd Quartile	239.2	0.0005	0.0005	7.66	0.0001	0.0001	54.2	132	0.00076	0.0025	0.0025	0.026	0.01	0.21
Seepage 2A (S2A)	Average	119.2	0.00050	0.000376	7.314	0.000106	0.00006951	58.4	169	0.0000633	0.00250	0.00221	0.0074	0.0244	0.085
	Count	19	19	19	20	19	19	19	19	19	19	19	4	10	14
	Minimum	30.9	<0.0010	0.000069	7.01	<0.00020	<0.0000050	13.0	43	<0.000040	<0.0050	0.00022	0.0056	<0.020	0.020
	Maximum	196	<0.0010	<0.0010	7.74	0.00021	<0.00020	100	300	0.000219	<0.0050	0.00738	0.012	0.058	0.19
	Geometric Mean	107.3	0.00050	0.000302	7.312	0.000104	0.00003379	50.1	146	0.0000513	0.00250	0.00162	0.0070	0.0202	0.067
	Count <DL	0	19	13	0	18	17	0	0	14	19	13	0	4	0
	Standard Deviation	49.1	0.00000	0.000189	0.178	0.000025	0.00004612	28.9	83	0.0000478	0.00000	0.00157	0.0031	0.0158	0.057
	1st Quartile	81.2	0.0005	0.000146	7.175	0.0001	5.35E-06	36.4	110	5.00E-05	0.0025	0.00154	0.0058	0.01	0.036
	Median	114	<0.0010	<0.0010	7.32	<0.00020	<0.00020	49.5	140	<0.00010	<0.0050	<0.0050	0.006	0.0225	0.062
	3rd Quartile	154.5	0.0005	0.0005	7.435	0.0001	0.0001	81.7	235	5.65E-05	0.0025	0.0025	0.0076	0.0338	0.13
Seepage 2B (S2B)	Average	136.2	0.00050	0.000610	7.38	0.000100	0.00005554	72.9	206	0.0000448	0.00250	0.00219	0.0062	0.0441	0.101
	Count	13	13	13	14	13	13	13	13	13	13	13	3	7	10
	Minimum	40.3	<0.0010	0.000054	7.06	<0.00020	<0.0000050	13.6	42	<0.000040	<0.0050	0.00018	0.0054	<0.020	0.028
	Maximum	204	<0.0010	0.00407	7.81	<0.00020	<0.00020	109	320	0.000098	<0.0050	0.0091	0.0067	0.094	0.18
	Geometric Mean	122.9	0.00050	0.000276	7.38	0.000100	0.00002019	61.6	173	0.0000400	0.00250	0.00122	0.0061	0.0354	0.087
	Count <DL	0	13	7	0	13	12	0	0	11	13	6	0	1	0
	Standard Deviation	53.6	0.00000	0.001061	0.20	0.000000	0.00005002	34.6	99	0.0000215	0.00000	0.00235	0.0007	0.0300	0.051
	1st Quartile	89.5	<0.0010	7.90E-05	7.25	<0.00020	<0.0000050	35	95	<0.000040	<0.0050	0.00035	0.0059	0.026	0.052
	Median	159	<0.0010	<0.0010	7.36	<0.00020	<0.00020	87.3	230	<0.00010	<0.0050	<0.0050	0.0064	0.036	0.115
	3rd Quartile	177	<0.0010	<0.0010	7.52	<0.00020	<0.00020	101	280	<0.00010	<0.0050	<0.0050	0.0066	0.0585	0.13
Seep 2 Upstream (S2US)	Average	149.6	0.00050	0.000329	7.12	0.000100	0.00005273	75.5	212	0.0000413	0.00250	0.00213	0.0128	0.0100	0.162
	Count	12	12	12	13	12	12	12	12	12	12	12	3	7	9
	Minimum	43.3	<0.0010	0.000095	6.79	<0.00020	<0.0000050	18.1	52	<0.000040	<0.0050	0.00031	0.0064	<0.020	0.025
	Maximum	213	<0.0010	<0.0010	7.56	<0.00020	<0.00020	108	300	0.000071	<0.0050	0.0096	0.019	<0.020	0.26
	Geometric Mean	131.3	0.00050	0.000267	7.12	0.000100	0.00001972	64.1	178	0.0000376	0.00250	0.00125	0.0116	0.0100	0.134
	Count <DL	0	12	6	0	12	10	0	0	10	12	5	0	7	0
	Standard Deviation	62.7	0.00000	0.000187	0.21	0.000000	0.00004955	34.1	97	0.0000170	0.00000	0.00255	0.0063	0.0000	0.080
	1st Quartile	128.7	0.0005	0.000137	7.03	0.0001	2.50E-06	57.5	165	2.00E-05	0.0025	0.00039	0.0097	0.01	0.095
	Median	171	0.0005	0.000402	7.12	0.0001	5.89E-05	92	255	5.00E-05	0.0025	0.00192	0.013	<0.020	0.19
	3rd Quartile	189.8	0.0005	0.0005	7.23	0.0001	0.0001	95.2	280	5.00E-05	0.0025	0.0025	0.016	0.01	0.21

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23	
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Quinsam River at Argonaut Road	Average	0.000101	0.000108	0.0245	0.0170		22.0	0.0123	0.00000325	0.000616	0.0200	0.0114	0.00187	0.000926	20.7	0.664	0.000240	0.000125	7.51	0.00004155	0.00002390	1.50	0.90	0.0000561	0.001519	0.00451	0.00252	2.1	0.0100
WA	Count	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	5	22	1	
E0126402	Minimum	<0.00010	<0.00010	0.0128	0.0118	16	<0.010	<0.0000050	0.000518	<0.010	0.0063	0.0013	0.000497	16.6	0.571	0.000026	0.000027	5.95	<0.0000050	<0.0000050	<3.0	<1.0	<0.000040	<0.00010	0.00056	<0.0020	1.8	<0.020	
	Maximum	0.000208	0.00019	0.0554	0.0413	24	<0.050	0.0000090	0.00104	0.043	0.0304	0.00319	0.00252	24.1	0.904	<0.0010	<0.0010	8.37	<0.00020	<0.00020	<3.0	1.6	0.000072	0.00952	0.0307	0.0051	3.5	<0.020	
	Geometric Mean	0.000093	0.000103	0.0220	0.0160	22.0	0.0090	0.00000301	0.000607	0.0178	0.0104	0.00180	0.000853	20.7	0.660	0.000129	0.000074	7.50	0.00001514	0.00000768	1.50	0.81	0.0000547	0.000622	0.00197	0.00217	2.1	0.0100	
	Count <DL	5	2	0	0	0	22	21	0	1	0	0	2	0	0	9	4	0	18	15	22	10	5	12	4	4	0	1	
	Standard Deviation	0.000042	0.000032	0.0133	0.0075	1.8	0.0098	0.00000162	0.000118	0.0101	0.0058	0.00054	0.000439	1.6	0.072	0.000224	0.000162	0.44	0.00004605	0.00003776	0.00	0.38	0.0000110	0.002093	0.00793	0.00158	0.3	0.0000	
	1st Quartile	6.60E-05	8.80E-05	0.0165	0.0125	21.2	0.005	2.50E-06	0.000553	0.014	0.0084	0.00142	0.000692	19.8	0.621	4.30E-05	4.10E-05	7.39	2.50E-06	2.50E-06	1.5	0.5	5.00E-05	0.00021	0.00088	0.003	1.9	0.02	
	Median	9.90E-05	0.000107	0.0178	0.0141	22.5	0.005	2.50E-06	0.000581	0.0171	0.0092	0.00182	0.000866	20.6	0.651	8.00E-05	5.30E-05	7.54	1.00E-05	3.75E-06	1.5	1.1	5.65E-05	0.0005	0.0015	0.005	2	0.02	
	3rd Quartile	0.000129	0.000133	0.0273	0.0175	23	0.025	2.50E-06	0.000639	0.0212	0.0123	0.00209	0.001097	21.6	0.684	0.0005	8.70E-05	7.62	0.0001	1.93E-05	1.5	1.2	6.17E-05	0.0025	0.0025	0.005	2.1	0.02	
Mid Quinsam Lake Outlet	Average	0.000145	0.000145	0.02742	0.02009	26.9	0.0220	0.00000267	0.000566	0.0396	0.0251	0.00574	0.00370	29.0	5.01	0.000143	0.000100	7.42	0.00002290	0.00001303	4.41	14.2	0.0000473	0.000779	0.00180	0.00330	2.6	0.0100	
WB	Count	72	72	72	72	69	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	72	72	9	70	1	
E0900504	Minimum	<0.00010	0.000091	0.00596	0.00448	20	<0.010	<0.0000050	0.00039	0.0236	0.0146	0.00167	0.00149	20.7	1.16	0.000032	0.000030	6.55	<0.0000050	<0.0000050	<3.0	4.7	<0.000040	<0.00010	0.00029	0.002	1.9	<0.020	
	Maximum	0.000221	0.000229	0.0794	0.0393	40	0.064	<0.000010	0.000754	0.117	0.0605	0.0252	0.0142	50.3	20.2	<0.0010	<0.0010	8.21	0.00017	<0.00020	18.4	51	0.000068	0.00840	0.0146	0.0076	3.3	<0.020	
	Geometric Mean	0.000138	0.000142	0.02439	0.01851	26.5	0.0195	0.00000262	0.000562	0.0376	0.0239	0.00491	0.00330	28.5	3.99	0.000100	0.000079	7.41	0.00000724	0.00000478	3.46	12.0	0.0000458	0.000330	0.00119	0.00299	2.6	0.0100	
	Count <DL	4	0	0	0	0	13	72	0	0	0	0	0	0	0	14	5	0	53	51	22	0	11	27	4	6	0	1	
	Standard Deviation	0.000041	0.000033	0.01365	0.00751	4.8	0.0115	0.00000064	0.000068	0.0153	0.0087	0.00418	0.00209	6.2	3.92	0.000155	0.000107	0.39	0.00003900	0.00002736	3.53	10.0	0.0000100	0.001257	0.00263	0.00185	0.4	0.0000	
	1st Quartile	0.00012	0.000122	0.01695	0.01375	23	0.014	2.50E-06	0.000526	0.0308	0.0196	0.0037	0.00234	25.4	2.38	6.60E-05	6.10E-05	7.14	2.50E-06	2.50E-06	1.5	8.4	4.48E-05	0.00016	0.00071	0.005	2.3	<0.020	
	Median	0.000139	0.000135	0.0252	0.0197	26	0.021	2.50E-06	0.000569	0.0353	0.0232	0.00452	0.00334	27.5	3.78	7.50E-05	6.80E-05	7.5	2.50E-06	2.50E-06	3.6	10	5.00E-05	0.00023	0.00102	0.005	2.6	<0.020	
	3rd Quartile	0.000177	0.000166	0.03532	0.0251	29	0.025	2.50E-06	0.000608	0.0415	0.0272	0.00566	0.00422	31.8	6	0.000106	7.70E-05	7.68	1.03E-05	6.10E-06	5.17	17.5	5.20E-05	0.000612	0.00165	0.005	2.9	<0.020	
Quinsam River Downstream 1	Average	0.0006401	0.000581	0.02863	0.01763	36.5	0.0434	0.00000279	0.000544	0.08880	0.0415	0.012180	0.00935	35.851	11.52	0.000180	0.0001145	7.43	0.00002726	0.00001333	8.84	27.3	0.0000474	0.000755	0.00123	0.00422	2.5	0.0150	
QRD51	Count	62	62	62	62	61	62	62	62	62	62	62	62	62	62	62	62	61	62	62	62	62	61	62	62	16	61	2	
E286930	Minimum	<0.000020	0.000171	<0.0030	0.00424	22	<0.010	<0.0000050	0.00037	<0.0050	0.0149	<0.00010	0.0018	<0.50	3.39	0.000042	<0.000020	6.1	<0.0000050	<0.0000050	<3.0	7.5	<0.000040	<0.00010	0.00028	<0.0030	1.9	<0.020	
	Maximum	0.00142	0.00125	0.074	0.0283	56	0.083	0.0000053	0.000843	0.212	0.127	0.0285	0.0258	55.9	25.4	0.000566	<0.0010	8.5	<0.00020	<0.00020	21.8	62	0.000073	<0.0050	0.00515	0.0096	3.2	0.020	
	Geometric Mean	0.0005411	0.000507	0.02521	0.01604	35.7	0.0395	0.00000271	0.000538	0.07914	0.0373	0.010527	0.00787	33.070	10.44	0.000125	0.0000876	7.41	0.00001057	0.00000431	7.98	24.9	0.0000456	0.000390	0.00101	0.00369	2.5	0.0141	
	Count <DL	1	0	1	0	0	3	61	0	1	0	1	0	1	0	19	7	0	43	52	1	0	13	26	6	8	0	1	
	Standard Deviation	0.0003343	0.000311	0.01329	0.00679	7.2	0.0174	0.00000081	0.000082	0.03877	0.0230	0.005036	0.00565	8.153	5.09	0.000173	0.0001202	0.53	0.00003745	0.00002932	4.00	11.8	0.0000112	0.000900	0.00085	0.00234	0.4	0.0071	
	1st Quartile	0.0004235	0.000389	0.01895	0.01115	31	0.0302	2.50E-06	0.00049	0.06705	0.0289	0.009075	0.00537	33.225	7.78	7.50E-05	6.75E-05	7.09	2.50E-06	2.50E-06	6.6	19	4.70E-05	0.000173	0.00063	0.0025	2.2	0.0125	
	Median	0.0005395	0.000466	0.0265	0.0189	36	0.0435	2.50E-06	0.000549	0.0832	0.0357	0.01155	0.00855	36.05	10.75	9.30E-05	7.40E-05	7.6	1.00E-05	2.50E-06	8.4	26	5.00E-05	0.00031	0.00098	0.00315	2.6	0.015	
	3rd Quartile	0.000885	0.000841	0.03673	0.0234	41	0.0532	2.50E-06	0.000593	0.09815	0.0426	0.014475	0.01205	39	13.05	0.000188	8.97E-05	7.79	2.97E-05	4.45E-06	9.53	30	5.20E-05	0.0005	0.00152	0.0054	2.8	0.0175	
7 South Quinsam River	Average	0.000796	0.000746	0.0275	0.01472	38.5	0.0539	0.00000300	0.000497	0.1112	0.0669	0.00954	0.00790	38.6	13.30	0.000225	0.000139	7.55	0.00003617	0.00001838	10.40	30.6	0.0000467	0.00103	0.00331	0.00430	2.4	0.0100	
75QR	Count	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	6	26	1	
E292113	Minimum	0.000254	0.00022	0.0107	0.00535	22	0.019	<0.0000050	0.00041	0.0502	0.0337	0.00352	0.00263	23.0	3.16	<0.00010	0.00003	7.01	<0.0000050	<0.0000050	<3.0	7.6	<0.000040	0.00017	0.00021	<0.0050	1.8	<0.020	
	Maximum	0.00119	0.00110	0.0764	0.0319	51	0.086	0.0000054	0.000665	0.207	0.120	0.0158	0.0169	55.6	24.6	<0.0010	<0.0010	7.95	<0.00020	<0.00020	21.1	58	0.000068	<0.0050	0.0243	0.0074	3.7	<0.020	
	Geometric Mean	0.000739	0.000689	0.0246	0.01284	37.8	0.0504	0.00000286	0.000492	0.1061	0.0638	0.00911	0.00736	37.8	12.10	0.000150	0.000101	7.54	0.00001557	0.00000544	9.08	27.7	0.0000458	0.00063	0.00118	0.00388	2.3	0.0100	
	Count <DL	0	0	0	0	0	1	25	0	0	0	0	0	0	0	11	4	0	16	20	1	0	5	13	2	3	0	1	
	Standard Deviation	0.000286	0.000273	0.0146	0.00805	7.0	0.0184	0.00000104	0.000074	0.0357	0.0217	0.00284	0.00299	8.0	5.54	0.000197	0.000143	0.27	0.00004352	0.00003553	5.20	13.4	0.0000083	0.00101	0.00688	0.00210	0.5	0.0000	
	1st Quartile	0.000566	0.000521	0.0178	0.00906	36	0.044	2.50E-06	0.000443	0.0862	0.053	0.00739	0.00631	34.4	9.95	7.90E-05	7.20E-05	7.3	6.15E-06	2.50E-06	7.05	22.2	4.20E-05	0.00034	0.00066	0.0025	2	0.02	
	Median	0.00081	0.000788	0.0251	0.01016	37	0.0525	2.50E-06	0.000476	0.1065	0.0609	0.00958	0.00754	37	11.95	9.80E-05	7.90E-05	7.6	1.00E-05	2.50E-06	8.85	27.5	4.70E-05	0.0005	0.001	0.0039	2.3	0.02	
	3rd Quartile	0.00106	0.001025	0.0294	0.02075	44.8	0.0675	2.50E-06	0.000537	0.1288	0.0777	0.01095	0.00922	43.6	16.38	0.0005	0.000131												

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Quinsam River at Argonaut Road WA E0126402	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Mid Quinsam Lake Outlet WB E0900504	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Quinsam River Downstream 1 QRDS1 E286930	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
7 South Quinsam River 7SQR E292113	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
			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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Iron River & Quinsam River IRQR E299256	Average		0.000886	0.000844	0.0335	0.02205	36.4	0.0426	0.00000333	0.000567	0.0915	0.0561	0.00713	0.00582	36.6	10.37	0.000241	0.000162	7.69	0.00003750	0.00001879	8.09	24.4	0.000079	0.001046	0.00454	0.00512	2.7	
	Count		21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	6	21	
	Minimum		0.000445	0.000368	0.0157	0.00928	23	0.016	<0.0000050	0.000437	0.0584	0.0357	0.0043	0.00210	23.4	2.62	<0.00010	0.00005	6.88	<0.0000050	<0.0000050	<3.0	6.3	<0.00010	<0.00010	0.00057	<0.0050	1.9	
	Maximum		0.00116	0.00109	0.103	0.0602	48	0.079	0.0000068	0.000751	0.142	0.0848	0.0133	0.0129	55.8	24.2	<0.0010	<0.0010	8.27	<0.00020	<0.00020	21.6	55	0.000132	<0.0050	0.0288	0.011	4.9	
	Geometric Mean		0.000865	0.000821	0.0296	0.01939	35.8	0.0388	0.00000311	0.000562	0.0887	0.0541	0.00678	0.00535	35.7	8.96	0.000175	0.000132	7.68	0.00001415	0.00000613	6.62	20.7	0.000076	0.000576	0.00202	0.00441	2.7	
	Count <DL		0	0	0	0	0	4	18	0	0	0	0	0	0	0	8	3	0	16	14	1	0	3	12	2	2	0	
	Standard Deviation		0.000185	0.000183	0.0198	0.01213	7.1	0.0189	0.00000140	0.000079	0.0235	0.0155	0.00236	0.00249	9.0	6.10	0.000191	0.000128	0.34	0.00004536	0.00003451	5.66	15.4	0.000024	0.001060	0.00792	0.00325	0.7	
	1st Quartile		0.00077	0.000765	0.0195	0.0112	33	0.05	5.00E-06	0.000518	0.071	0.0416	0.0053	0.00393	30.7	7.11	0.000104	9.60E-05	7.5	5.20E-06	5.00E-06	4.8	15	5.40E-05	0.00026	0.00102	0.00272	2.3	
	Median		0.00091	0.000878	0.029	0.0203	35	0.037	5.00E-06	0.000577	0.0909	0.0535	0.00654	0.00525	33.6	7.97	0.000132	0.000108	7.63	2.00E-05	5.00E-06	6	17	7.40E-05	0.001	0.00136	0.0042	2.7	
	3rd Quartile		0.00101	0.000952	0.0382	0.0271	38	0.056	1.00E-05	0.000603	0.106	0.0695	0.0088	0.00729	42	9.97	0.001	0.000155	7.84	0.0002	7.10E-06	7.5	25	9.80E-05	0.005	0.005	0.00598	3	
No Name Lake Outlet NNO E217017	Average		0.000295	0.000293	0.0331	0.02659	13.1	0.0164	0.00000319	0.000463	0.0655	0.0458	0.00642	0.00310	13.9	1.101	0.000232	0.000146	7.42	0.00004113	0.00002281	1.50	0.74	0.0000330	0.001087	0.00342	0.00425	3.5	
	Count		16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	2	16	
	Minimum		0.000186	0.00018	0.013	0.0093	10	<0.010	<0.0000050	0.00034	0.0437	0.0247	0.0031	0.00101	11.2	0.864	0.000041	0.000034	6.86	<0.0000050	<0.0000050	<3.0	<1.0	<0.000040	<0.00010	0.00018	<0.0050	2.7	
	Maximum		0.00040	0.000364	0.0688	0.0555	16	<0.050	0.0000060	0.000653	0.124	0.0676	0.00330	0.00662	16.8	1.26	<0.0010	<0.0010	7.99	<0.00020	<0.00020	<3.0	1.6	0.000138	<0.0050	0.0138	0.006	4.7	
	Geometric Mean		0.000288	0.000287	0.0291	0.02278	13.0	0.0149	0.00000301	0.000457	0.0632	0.0441	0.00497	0.00277	13.8	1.096	0.000142	0.000092	7.41	0.00001525	0.00000783	1.50	0.66	0.0000268	0.000519	0.00199	0.00387	3.4	
	Count <DL		0	0	0	0	0	7	15	0	0	0	0	0	0	0	7	3	0	11	9	16	11	15	8	2	1	0	
	Standard Deviation		0.000065	0.000058	0.0170	0.01454	2.2	0.0071	0.00000125	0.000084	0.0199	0.0129	0.00730	0.00156	1.8	0.108	0.000216	0.000176	0.34	0.00004716	0.00003837	0.00	0.38	0.0000305	0.001135	0.00406	0.00247	0.6	
	1st Quartile		0.000237	0.000236	0.0176	0.01408	11	0.011	2.50E-06	0.000426	0.0518	0.0367	0.00351	0.0023	12.3	1.015	6.20E-05	5.60E-05	7.25	5.13E-06	2.50E-06	1.5	0.5	2.00E-05	0.00017	0.00103	0.00337	3.1	
	Median		0.000307	0.000303	0.0299	0.025	13	0.013	2.50E-06	0.000441	0.057	0.0395	0.0039	0.00268	13.9	1.125	8.70E-05	6.70E-05	7.46	9.45E-06	6.00E-06	1.5	0.5	2.00E-05	0.00034	0.00197	0.00425	3.3	
	3rd Quartile		0.000342	0.000346	0.0433	0.03662	15	0.025	3.13E-06	0.000484	0.0719	0.0571	0.00606	0.00374	15.6	1.18	0.0005	8.90E-05	7.61	0.0001	8.35E-06	1.5	1.02	2.75E-05	0.0025	0.00261	0.00513	3.7	
Long Lake Outlet LLO E219412	Average		0.000422	0.000420	0.0257	0.01766	26.8	0.0411	0.00000297	0.000376	0.0565	0.0290	0.00739	0.00289	52.8	5.49	0.000268	0.000179	7.45	0.00004237	0.00002134	13.1	40.2	0.0000256	0.00127	0.00222	0.00517	3.2	
	Count		16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	4	16	
	Minimum		0.00026	0.00026	0.0102	0.0043	15	0.023	<0.0000050	0.00029	0.024	0.0061	0.00402	0.00165	27.5	2.50	0.000086	0.000065	6.86	<0.0000050	<0.0000050	4.7	15	<0.000040	0.00016	0.00033	<0.0050	2.3	
	Maximum		0.000586	0.000550	0.0542	0.0425	35	0.063	<0.0000010	0.000557	0.136	0.0557	0.0112	0.00496	79.1	7.93	<0.0010	<0.0010	7.92	<0.00020	<0.00020	20.9	63	<0.00010	<0.0050	0.0136	0.0097	4.8	
	Geometric Mean		0.000405	0.000405	0.0226	0.01383	25.9	0.0386	0.00000285	0.000372	0.0528	0.0264	0.00717	0.00277	50.5	5.20	0.000209	0.000139	7.44	0.00001931	0.00000568	12.1	37.6	0.0000237	0.00080	0.00148	0.00437	3.2	
	Count <DL		0	0	0	0	0	5	16	0	0	0	0	0	0	0	6	3	0	11	14	0	0	16	8	2	2	0	
	Standard Deviation		0.000118	0.000111	0.0132	0.01201	6.6	0.0143	0.00000101	0.000060	0.0244	0.0114	0.00187	0.00088	15.6	1.71	0.000188	0.000160	0.24	0.00004616	0.00003905	4.8	13.6	0.0000121	0.00105	0.00312	0.00344	0.6	
	1st Quartile		0.000287	0.000315	0.0154	0.0075	23	0.025	2.50E-06	0.000337	0.0444	0.0237	0.00636	0.00236	41.9	4.38	0.000122	9.30E-05	7.33	6.75E-06	2.50E-06	10.3	32.8	2.00E-05	0.00032	0.00093	0.0025	3	
	Median		0.000463	0.000471	0.0221	0.0149	29	0.0445	2.50E-06	0.000377	0.0527	0.0282	0.00709	0.0026	55.7	5.98	0.000159	0.000114	7.48	1.00E-05	2.50E-06	14.2	44	2.00E-05	0.00085	0.00135	0.00425	3.2	
	3rd Quartile		0.000517	0.000506	0.0345	0.02767	32	0.052	2.50E-06	0.0004	0.0615	0.0355	0.00793	0.00353	63.6	6.59	0.0005	0.											

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Iron River & Quinsam River IRQR E299256	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
No Name Lake Outlet NNO E217017	Average	0.0075
	Count	1
	Minimum	<0.015
	Maximum	<0.015
	Geometric Mean	0.0075
	Count <DL	1
	Standard Deviation	0.0000
	1st Quartile	0.015
	Median	0.015
	3rd Quartile	0.015
Long Lake Outlet LLO E219412	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Iron River Site 6 IR6 E297231	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Iron River Site 8 IR8 E297232	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23	
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Middle Quinsam Lake 1M	Average	0.000145	0.000146	0.01385	0.01173		32.5	0.0389	0.00000381	0.000515	0.0319	0.0194	0.01030	0.004153	34.7	11.10	0.000302	0.000187	7.30	0.00005655	0.00003046	9.77	25.94	0.000051	0.00156	0.00343	0.00734	2.2	0.0138
MQL1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15	
E206618	Minimum	<0.00010	0.000101	0.00729	0.00448	1.5	0.013	<0.0000050	0.000391	0.022	0.0125	0.0035	0.000996	21	2.05	<0.00010	0.000045	6.55	<0.0000050	<0.0000050	<3.0	<1.0	0.000044	0.00028	0.00055	<0.0030	1.9	<0.020	
	Maximum	0.000183	0.000184	0.0278	0.018	45	0.071	0.0000061	0.00067	0.0480	0.0276	0.0297	0.0130	48.8	22.1	<0.0010	<0.0010	8.22	<0.00020	<0.00020	19.3	55	0.000061	<0.0050	0.0172	0.045	2.8	0.067	
	Geometric Mean	0.000135	0.000143	0.01302	0.01087	27.7	0.0351	0.00000354	0.000511	0.0313	0.0190	0.00794	0.003205	33.4	9.18	0.000201	0.000119	7.29	0.00002383	0.00000949	7.04	17.05	0.000050	0.00112	0.00232	0.00374	2.2	0.0114	
	Count <DL	2	0	0	0	0	5	12	0	0	0	0	0	0	0	9	4	0	13	11	3	1	4	9	4	4	0	14	
	Standard Deviation	0.000045	0.000027	0.00528	0.00401	10.6	0.0181	0.00000148	0.000071	0.0069	0.0043	0.00844	0.003310	9.8	6.45	0.000220	0.000196	0.48	0.00004835	0.00004355	6.85	18.84	0.000004	0.00105	0.00418	0.01273	0.3	0.0147	
	1st Quartile	0.000125	0.000123	0.01185	0.01085	30.5	0.025	2.50E-06	0.000471	0.0275	0.016	0.00495	0.0022	26.8	7.27	6.80E-05	6.70E-05	6.98	3.75E-06	2.50E-06	5.5	14	4.80E-05	0.00045	0.00139	0.0015	2	0.01	
	Median	0.000167	0.000156	0.0131	0.0123	33	0.033	5.00E-06	0.00051	0.0314	0.0195	0.00634	0.00281	31.4	9.58	0.001	8.50E-05	7.15	0.0002	6.00E-06	6.5	19	0.0001	0.005	0.005	0.0034	2.1	0.02	
	3rd Quartile	0.000177	0.000166	0.0151	0.0144	39.5	0.0545	5.00E-06	0.000551	0.036	0.0228	0.01381	0.004625	46.4	16.3	0.0005	0.000296	7.59	0.0001	5.70E-05	16.6	45.5	5.20E-05	0.0025	0.00254	0.00465	2.3	0.01	
Middle Quinsam Lake 4M	Average	0.000141	0.000150	0.01350	0.01179	35.8	0.0389	0.00000387	0.000541	0.0316	0.0201	0.01046	0.003725	34.6	11.14	0.000303	0.000187	7.36	0.00006074	0.00003000	9.03	26.6	0.0000499	0.00153	0.00129	0.00218	2.2	0.0100	
MQL4	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15	
E206618	Minimum	<0.00010	0.00010	0.00725	0.00487	22	0.013	<0.0000050	0.000388	0.023	0.0127	0.0033	0.000399	20.7	2.05	0.000055	0.000051	6.84	<0.0000050	<0.0000050	<3.0	4.2	<0.000040	0.00020	0.0003	<0.0030	1.8	<0.020	
	Maximum	0.000187	0.000193	0.0246	0.0186	70	0.071	0.0000130	0.00111	0.0460	0.0324	0.0295	0.0126	48.1	21.9	<0.0010	<0.0010	8.27	<0.00020	<0.00020	19.5	55	0.000065	<0.0050	<0.0050	0.0036	2.8	<0.020	
	Geometric Mean	0.000131	0.000147	0.01284	0.01097	34.4	0.0351	0.00000336	0.000525	0.0310	0.0195	0.00787	0.002629	33.4	9.38	0.000207	0.000119	7.35	0.00002636	0.00000850	6.86	20.9	0.0000485	0.00101	0.00101	0.00201	2.2	0.0100	
	Count <DL	2	0	0	0	0	5	14	0	0	0	0	0	0	0	8	4	0	13	12	2	0	5	9	4	7	0	15	
	Standard Deviation	0.000045	0.000028	0.00446	0.00415	11.4	0.0179	0.00000277	0.000166	0.0066	0.0054	0.00885	0.003442	9.6	6.24	0.000219	0.000196	0.44	0.00004783	0.00004389	6.26	17.9	0.0000106	0.00109	0.00086	0.00095	0.3	0.0000	
	1st Quartile	0.00012	0.000131	0.01195	0.0107	29	0.025	2.50E-06	0.000475	0.026	0.0161	0.00435	0.00174	27.4	7.19	7.10E-05	6.20E-05	7.04	4.35E-06	2.50E-06	5.15	14.5	4.70E-05	0.00038	0.00051	0.0015	2	0.01	
	Median	0.00016	0.000155	0.0131	0.0119	33	0.034	5.00E-06	0.000489	0.0305	0.0186	0.00666	0.00248	31.3	9.32	0.001	7.40E-05	7.23	0.0002	5.00E-06	6.6	19	0.0001	0.005	0.00099	0.003	2.1	0.02	
	3rd Quartile	0.000171	0.000172	0.01485	0.0137	40	0.0545	5.00E-06	0.000565	0.0354	0.0228	0.0143	0.003665	46.5	16.25	0.0005	0.000311	7.64	0.0001	5.95E-05	14.8	45	5.45E-05	0.0025	0.00206	0.00325	2.3	0.01	
Middle Quinsam Lake 9M	Average	0.000136	0.000135	0.01223	0.00941	31.3	0.0292	0.00000354	0.000480	0.0262	0.0119	0.01010	0.002551	31.8	8.50	0.000300	0.000176	7.50	0.00005529	0.00002941	6.47	19.3	0.000050	0.00151	0.00113	0.00340	2.2	0.0100	
MQL9	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15	
E206618	Minimum	<0.00010	<0.00010	0.00736	0.00414	25	0.018	<0.0000050	0.000407	0.015	0.0080	0.0027	0.000319	23.2	3.33	<0.00010	0.000021	6.84	<0.0000050	<0.0000050	<3.0	8.1	0.000041	0.00013	0.00023	<0.0030	1.9	<0.020	
	Maximum	0.00018	0.000182	0.0241	0.0170	40	0.046	0.00000081	0.000533	0.0465	0.0230	0.0291	0.0127	35.2	10.6	<0.0010	<0.0010	9.05	<0.00020	<0.00020	8.5	26	0.000059	<0.0050	<0.0050	0.0062	2.9	<0.020	
	Geometric Mean	0.000131	0.000130	0.01124	0.00861	31.2	0.0284	0.00000325	0.000478	0.0248	0.0113	0.00774	0.001191	31.6	8.27	0.000200	0.000097	7.47	0.00002096	0.00000789	6.09	18.8	0.000049	0.00094	0.00085	0.00305	2.2	0.0100	
	Count <DL	1	1	0	0	0	8	14	0	0	0	0	3	0	0	9	4	0	14	13	1	0	4	9	4	3	0	15	
	Standard Deviation	0.000036	0.000034	0.00551	0.00408	3.3	0.0074	0.00000169	0.000042	0.0096	0.0044	0.00824	0.003684	3.0	1.66	0.000221	0.000203	0.65	0.00004952	0.00004414	1.72	4.1	0.000005	0.00111	0.00088	0.00155	0.3	0.0000	
	1st Quartile	0.000115	0.000114	0.0081	0.00702	30	0.025	2.50E-06	0.000458	0.02	0.009	0.00477	0.0005	31.6	8.45	7.30E-05	5.60E-05	7.05	2.50E-06	2.50E-06	6.45	19	4.60E-05	0.00035	0.00054	0.0023	2.1	0.01	
	Median	0.00015	0.000139	0.00882	0.00812	31	0.05	5.00E-06	0.000483	0.022	0.0104	0.0061	0.00073	32.7	8.75	0.001	6.70E-05	7.25	0.0002	5.00E-06	6.8	20	0.0001	0.005	0.00076	0.0033	2.1	0.02	
	3rd Quartile	0.000161	0.00016	0.0153	0.01185	32.5	0.034	5.00E-06	0.000515	0.0345	0.0127	0.01426	0.002565	33.3	9.23	0.0005	0.000294	7.85	0.0001	5.63E-05	7.2	21	5.30E-05	0.0025	0.00174	0.00425	2.2	0.01	
Middle Quinsam Lake 1MB	Average	0.000127	0.000120	0.01149	0.00771	31.5	0.0293	0.00000317	0.000467	0.0671	0.0253	0.1186	0.108431	33.6	8.56	0.000302	0.000188	7.19	0.00005540	0.00002897	6.8	20.3	0.000052	0.00150	0.00114	0.00387	2.2	0.0108	
MQLB	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15	
E206618	Minimum	<0.00010	<0.00010	0.00468	0.00206	26	0.024	<0.0000050	0.000359	0.023	0.0079	0.0070	0.000981	26.3	4.73	<0.00010	0.000036	6.81	<0.0000050	<0.0000050	3.1	12	0.000041	0.00020	0.00029	<0.0030	1.9	<0.020	
	Maximum	0.000211	0.000187	0.0235	0.0155	40	0.041	<0.0000010	0.000536	0.509	0.164	1.07	1.17	39.7	10.4	<0.0010	<0.0010	8.22	<0.00020	<0.00020	9.5	23	0.000068	<0.0050	<0.0050	0.0071	3	0.022	
	Geometric Mean	0.000116	0.000112	0.01009	0.00644	31.4	0.0288	0.00000301	0.000465	0.0415	0.0174	0.0221	0.010431	33.4	8.44	0.000205	0.000120	7.18	0.00002178	0.00000751	6.5	20.0	0.000051	0.00098	0.00085	0.00340	2.2	0.0105	
	Count <DL	3	2	0	0	0	8	15	0	0	0	0	0	0	0	9	4	0	13	13	0	0	4	9	4	3	0	14	
	Standard Deviation	0.000050	0.000041	0.00601	0.00450	3.2	0.0061	0.00000114	0.000047	0.1225	0.0386	0.2949	0.307665	3.6	1.35	0.000219	0.000196	0.38	0.00004939	0.00004435	1.6	3.3	0.000007	0.00111	0.00089	0.00186	0.3	0.0031	
	1st Quartile	0.00011	0.000105	0.00626	0.00411	30	0.025	2.50E-06	0.000442	0.0304	0.013	0.0112	0.00466	31.8	8.26	7.20E-05	6.70E-05	6.92	3.90E-06	2.50E-06	6.5	20	4.90E-05	0.00038	0.00058	0.00255	2	0.01	
	Median	0.00012	0.00011	0.0125	0.0061	31	0.05	5.00E-06	0.00047	0.033	0.0156	0.0131	0.0088	33.8	8.99	0.001	8.60E-05	7.08	0.0002	5.00E-06	7.1	22	0.0001	0.005	0.00066	0.0039	2.1	0.02	
	3rd Quartile	0.000161	0.000141	0.0146	0.0113	32	0.0345	3.75E-06	0.000496	0.0447	0.0192	0.0175	0.0103	35.3	9.2	0.0005	0.000312	7.35	0.0001	5.36E-05	7.6	22	5.40E-05						

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Middle Quinsam Lake 1M MQL1 EZ06618	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Middle Quinsam Lake 4M MQL4 EZ06618	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Middle Quinsam Lake 9M MQL9 EZ06618	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Middle Quinsam Lake 1MB MQLB EZ06618	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic		As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23	
				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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
No Name Lake 1M		Average		0.00024	0.000247	0.0453	0.0321	12.6	0.0250	0.00000350	0.000443	0.055	0.0413	0.0036	0.00313	12.4	1.05	0.00050	0.000227	6.57	0.000100	0.00004216	1.50	0.66	0.0000320	0.00250	0.00393	0.0045	3.1		0.2006
NNL1		Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018		Minimum		0.00019	0.00021	0.0306	0.0273	11	<0.050	<0.0000050	0.000416	0.051	0.0379	0.0035	0.0028	11.7	1.00	<0.0010	0.000041	6.37	<0.00020	<0.0000050	<3.0	<1.0	<0.000040	<0.0050	0.00032	0.0039	2.8	<0.020	
		Maximum		0.00028	0.000268	0.0828	0.0362	14	<0.050	<0.000010	0.000483	0.059	0.0448	0.0038	0.00333	13.1	1.1	<0.0010	<0.0010	7.03	<0.00020	<0.00020	<3.0	1.3	<0.00010	<0.0050	0.0145	0.0055	3.4	0.947	
		Geometric Mean		0.00023	0.000246	0.0421	0.0319	12.6	0.0250	0.00000330	0.000442	0.055	0.0412	0.0036	0.00312	12.3	1.05	0.00050	0.000118	6.56	0.000100	0.00001294	1.50	0.61	0.0000289	0.00250	0.00173	0.0045	3.1	0.0301	
		Count <DL		0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	2	0	5	4	5	4	5	5	1	0	0	3	
		Standard Deviation		0.00003	0.000024	0.0216	0.0037	1.1	0.0000	0.00000137	0.000024	0.004	0.0026	0.0001	0.00026	0.6	0.04	0.00000	0.0000249	0.28	0.000000	0.00005282	0.00	0.36	0.0000164	0.00000	0.00596	0.0006	0.3	0.4173	
		1st Quartile		0.00022	0.00024	0.0313	0.0292	12	0.05	5.00E-06	0.000436	0.052	0.0399	0.0035	0.0029	11.9	1.02	0.001	4.50E-05	6.39	0.0002	5.00E-06	3	1	4.00E-05	0.005	0.00097	0.0041	2.9	0.02	
		Median		0.00024	0.00025	0.0389	0.033	13	0.05	5.00E-06	0.00044	0.053	0.0413	0.0036	0.00329	12.4	1.05	0.001	4.90E-05	6.39	0.0002	5.80E-06	3	1	4.00E-05	0.005	0.00136	0.0044	3.1	0.02	
		3rd Quartile		0.00025	0.000266	0.0428	0.0346	13	0.05	1.00E-05	0.00044	0.059	0.0426	0.0037	0.00332	12.7	1.06	0.001	0.001	6.65	0.0002	0.0002	3	1	0.0001	0.005	0.005	0.0046	3.3	0.026	
No Name Lake 4M		Average		0.00023	0.000251	0.0380	0.0335	11.6	0.0250	0.00000350	0.000449	0.054	0.0369	0.0034	0.00245	11.9	1.026	0.00050	0.000237	6.53	0.000100	0.00004150	1.50	0.62	0.0000320	0.00250	0.00299	0.0041	3.2	0.0148	
NNL4		Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018		Minimum		0.00016	0.00022	0.0331	0.0288	11	<0.050	<0.0000050	0.000417	0.046	0.0295	0.0028	0.00160	11.7	0.983	<0.0010	0.000054	6.32	<0.00020	<0.0000050	<3.0	<1.0	<0.000040	<0.0050	0.00029	0.0034	2.9	<0.020	
		Maximum		0.00026	0.000269	0.0431	0.0366	12	<0.050	<0.000010	0.00049	0.064	0.0417	0.0040	0.0031	12.2	1.1	<0.0010	<0.0010	6.91	<0.00020	<0.00020	<3.0	1.1	<0.00010	<0.0050	0.0108	0.0046	3.4	0.034	
		Geometric Mean		0.00022	0.000250	0.0379	0.0333	11.6	0.0250	0.00000330	0.000448	0.053	0.0366	0.0033	0.00239	11.9	1.026	0.00050	0.000142	6.53	0.000100	0.00001093	1.50	0.59	0.0000289	0.00250	0.00130	0.0041	3.2	0.0128	
		Count <DL		0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	2	0	5	5	5	4	5	5	1	0	0	4	
		Standard Deviation		0.00004	0.000019	0.0039	0.0031	0.5	0.0000	0.00000137	0.000028	0.008	0.0053	0.0005	0.00061	0.2	0.046	0.00000	0.0000240	0.23	0.000000	0.00005340	0.00	0.27	0.0000164	0.00000	0.00445	0.0006	0.2	0.0107	
		1st Quartile		0.00022	0.00025	0.0366	0.0324	11	0.05	5.00E-06	0.00043	0.047	0.0334	0.0029	0.00206	11.8	0.999	0.001	6.00E-05	6.42	0.0002	5.00E-06	3	1	4.00E-05	0.005	0.0006	0.0034	3	0.02	
		Median		0.00023	0.000254	0.0367	0.0336	12	0.05	5.00E-06	0.000447	0.054	0.0388	0.0035	0.0027	11.9	1.01	0.001	7.10E-05	6.42	0.0002	5.00E-06	3	1	4.00E-05	0.005	0.00078	0.0045	3.2	0.02	
		3rd Quartile		0.00026	0.000262	0.0406	0.0359	12	0.05	1.00E-05	0.00046	0.058	0.0413	0.0036	0.0028	12.1	1.04	0.001	0.001	6.58	0.0002	0.0002	3	1	0.0001	0.005	0.005	0.0046	3.3	0.02	
No Name Lake 9M		Average		0.00020	0.000208	0.0429	0.0369	11.2	0.0250	0.00000350	0.000450	0.067	0.0360	0.0047	0.00283	12.8	1.015	0.00050	0.0000240	6.30	0.000100	0.00004150	1.50	1.36	0.0000320	0.00250	0.00124	0.0048	3.1	0.039	
NNL9		Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
E217018		Minimum		0.00014	0.00020	0.0407	0.0345	11	<0.050	<0.0000050	0.00043	0.065	0.0339	0.0044	0.00247	12.7	0.971	<0.0010	0.000060	6.07	<0.00020	<0.0000050	<3.0	<1.0	<0.000040	<0.0050	0.00020	0.0036	3.0	0.029	
		Maximum		0.00024	0.000220	0.0453	0.0397	12	<0.050	<0.000010	0.000495	0.073	0.04	0.0053	0.00325	13.2	1.11	<0.0010	<0.0010	6.53	<0.00020	<0.00020	<3.0	2.4	<0.00010	<0.0050	<0.0050	0.0071	3.3	0.063	
		Geometric Mean		0.00020	0.000207	0.0429	0.0368	11.2	0.0250	0.00000330	0.000450	0.067	0.0359	0.0047	0.00281	12.8	1.014	0.00050	0.000149	6.30	0.000100	0.00001093	1.50	1.11	0.0000289	0.00250	0.00078	0.0047	3.1	0.038	
		Count <DL		0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	2	0	5	5	5	2	5	5	2	0	0	0	
		Standard Deviation		0.00004	0.000009	0.0019	0.0019	0.4	0.0000	0.00000137	0.000028	0.003	0.0024	0.0003	0.00030	0.2	0.056	0.00000	0.0000237	0.16	0.000000	0.00005340	0.00	0.86	0.0000164	0.00000	0.00116	0.0014	0.1	0.014	
		1st Quartile		0.00021	0.0002	0.0414	0.0359	11	0.05	5.00E-06	0.000432	0.065	0.0347	0.0046	0.00261	12.7	0.976	0.001	6.60E-05	6.27	0.0002	5.00E-06	3	1	4.00E-05	0.005	0.00039	0.0042	3.1	0.03	
		Median		0.00021	0.000204	0.0433	0.0368	11	0.05	5.00E-06	0.000434	0.065	0.0354	0.0047	0.0029	12.8	1	0.001	7.40E-05	6.31	0.0002	5.00E-06	3	1.4	4.00E-05	0.005	0.0006	0.0043	3.1	0.035	
		3rd Quartile		0.00022	0.000214	0.044	0.0374	11	0.05	1.00E-05	0.00046	0.066	0.0358	0.0047	0.0029	12.8	1.02	0.001	0.001	6.31	0.0002	0.0002	3	2	0.0001	0.005	0.005	0.005	3.1	0.04	
No Name Lake Bottom		Average		0.00020	0.000218	0.0409	0.0375	11.2	0.0250	0.00000350	0.000468	0.067	0.0369	0.0047	0.00297	12.4	1.016	0.00050	0.000237	6.24	0.000100	0.00004150	1.50	1.46	0.0000320	0.00250	0.00118	0.0042	3.1	0.033	
NNLB		Count		5																											

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
No Name Lake 1M NNL1 EZ17018	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
No Name Lake 4M NNL4 EZ17018	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
No Name Lake 9M NNL9 EZ17018	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
No Name Lake Bottom NNLB EZ17018	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23	
			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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Long Lake Middle 1 M LLM1 E206619	Average		0.000462	0.000473	0.0238	0.01856	27.1	0.0438	0.00000317	0.000398	0.0679	0.0284	0.00655	0.00276	54.5	5.68	0.000321	0.000177	7.03	0.00005879	0.00003543	13.4	40.2	0.0000273	0.00550	0.00129	0.00348	3.4	0.0159	
	Count		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15		
	Minimum		0.00027	0.000290	0.0098	0.00753	15	0.023	<0.0000050	0.00031	0.0260	0.0184	0.00392	<0.0010	24.3	2.06	0.00009	0.000069	6.3	<0.0000050	<0.0000050	3.7	12	<0.000040	0.0003	0.00049	<0.0030	2.8	<0.020	
	Maximum		0.000648	0.00063	0.0568	0.0472	34	0.062	0.0000050	0.000613	0.373	0.0558	0.0106	0.0047	77.1	7.85	<0.0010	<0.0010	8.04	<0.00020	0.000183	19.7	61	<0.00010	0.0616	<0.0050	0.011	5.2	0.085	
	Geometric Mean		0.000443	0.000458	0.0196	0.01541	26.5	0.0409	0.00000301	0.000392	0.0508	0.0268	0.00634	0.00244	52.1	5.36	0.000252	0.000132	7.01	0.00002751	0.00000917	12.4	37.3	0.0000252	0.00143	0.00114	0.00287	3.4	0.0122	
	Count <DL		0	0	0	0	0	4	14	0	0	0	0	0	1	0	0	8	3	0	12	10	0	0	14	8	3	4	0	13
	Standard Deviation		0.000132	0.000121	0.0155	0.01202	5.5	0.0155	0.00000114	0.000081	0.0857	0.0108	0.00180	0.00118	15.7	1.79	0.000198	0.000168	0.49	0.00004698	0.00005669	4.5	14.1	0.0000128	0.01555	0.00070	0.00270	0.6	0.0194	
	1st Quartile		0.000339	0.000363	0.0115	0.0084	23	0.025	2.50E-06	0.000348	0.0379	0.0195	0.00555	0.00209	42.1	4.4	0.000118	8.70E-05	6.71	7.05E-06	2.50E-06	10.7	31	2.00E-05	0.0005	0.00084	0.0015	3.1	0.01	
	Median		0.000489	0.000518	0.0159	0.0142	29	0.052	5.00E-06	0.00037	0.0425	0.0245	0.0059	0.00291	59.6	5.98	0.001	9.70E-05	6.84	0.0002	5.00E-06	13.7	43	4.00E-05	0.005	0.00104	0.0034	3.2	0.02	
	3rd Quartile		0.000574	0.000579	0.0331	0.02695	32	0.056	3.75E-06	0.000429	0.0555	0.0329	0.00706	0.00357	66.2	7.17	0.0005	0.000133	7.37	0.0001	5.70E-05	16.7	51.5	3.00E-05	0.0025	0.00154	0.00345	3.4	0.01	
Long Lake Middle 4 M LLM4 E206619	Average		0.000442	0.000438	0.0244	0.01809	30.6	0.054	0.00000350	0.000388	0.0486	0.0294	0.00935	0.00485	64.5	7.13	0.000374	0.000193	7.08	0.00005675	0.00002271	17.6	50.9	0.0000260	0.00151	0.00107	0.00365	3.5	0.0367	
	Count		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15		
	Minimum		0.00025	0.00026	0.0084	0.00745	18	0.029	<0.0000050	0.00030	0.0247	0.0182	0.00485	<0.0010	31.6	2.75	0.000096	0.000052	6.48	<0.0000050	<0.0000050	6.4	20	<0.000040	0.00022	0.00028	<0.0030	2.9	<0.020	
	Maximum		0.000646	0.000610	0.0538	0.0436	35	0.064	0.0000074	0.000562	0.099	0.0549	0.0182	0.019	77.4	9.81	0.0013	<0.0010	8.29	<0.00020	<0.00020	25.3	71	<0.00010	<0.0050	<0.0050	0.0058	5.1	0.277	
	Geometric Mean		0.000422	0.000421	0.0198	0.01506	30.2	0.053	0.00000324	0.000382	0.0453	0.0277	0.00856	0.00326	62.9	6.83	0.000269	0.000151	7.06	0.00002725	0.00000608	16.7	48.8	0.0000240	0.00102	0.00084	0.00337	3.4	0.0174	
	Count <DL		0	0	0	0	0	0	13	0	0	0	0	0	1	0	0	7	3	0	11	13	0	0	15	9	3	2	0	11
	Standard Deviation		0.000133	0.000123	0.0164	0.01147	4.7	0.010	0.00000157	0.000076	0.0204	0.0109	0.00429	0.00506	13.2	1.84	0.000320	0.000161	0.49	0.00004794	0.00004005	5.0	13.1	0.0000124	0.00109	0.00081	0.00135	0.6	0.0704	
	1st Quartile		0.00033	0.00032	0.0111	0.00848	30.5	0.055	2.50E-06	0.000341	0.0376	0.0204	0.00685	0.00238	62.4	6.77	0.000119	0.000104	6.71	8.85E-06	2.50E-06	16.9	50.5	2.00E-05	0.00046	0.00048	0.0031	3.2	0.01	
	Median		0.00045	0.000456	0.0175	0.0121	32	0.058	5.00E-06	0.000363	0.0411	0.0283	0.0076	0.00308	68.8	7.41	0.001	0.000125	6.99	0.0002	5.00E-06	18.1	52	4.00E-05	0.005	0.00086	0.0035	3.3	0.02	
	3rd Quartile		0.000545	0.000534	0.0326	0.0254	33	0.059	5.00E-06	0.000396	0.051	0.0339	0.01022	0.00398	72.3	7.95	0.0005	0.000148	7.37	0.0001	7.85E-06	19.8	57.5	2.00E-05	0.0025	0.0013	0.00465	3.5	0.0235	
Long Lake Middle 9 M LLM9 E206619	Average		0.000283	0.000273	0.0243	0.0191	36.9	0.072	0.00000300	0.000394	0.0474	0.0299	0.02128	0.01551	91.7	10.20	0.000350	0.000250	6.92	0.00005606	0.00002473	25.9	74.2	0.0000260	0.001549	0.00109	0.00363	3.3	0.0375	
	Count		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15	
	Minimum		0.00021	0.00017	0.0123	0.0112	27	0.047	<0.0000050	0.000341	0.024	0.0173	0.0056	0.0023	59.4	5.21	0.000153	0.000147	6.54	<0.0000050	<0.0000050	15.7	46	<0.000040	<0.00010	0.00033	<0.0030	2.8	<0.020	
	Maximum		0.000441	0.000458	0.0489	0.0334	41	0.084	<0.000010	0.000511	0.0927	0.058	0.0443	0.0400	102	12.0	<0.0010	<0.0010	8.17	<0.00020	<0.00020	31.5	87	<0.00010	<0.0050	<0.0050	0.0069	5.1	0.056	
	Geometric Mean		0.000277	0.000264	0.0223	0.0182	36.6	0.071	0.00000287	0.000392	0.0426	0.0273	0.01684	0.01040	90.7	9.97	0.000309	0.000226	6.91	0.00002446	0.00000688	25.5	72.7	0.0000240	0.001025	0.00087	0.00333	3.3	0.0351	
	Count <DL		0	0	0	0	0	0	15	0	0	0	0	0	0	0	8	3	0	12	12	0	0	15	10	3	2	0	1	
	Standard Deviation		0.000067	0.000080	0.0109	0.0064	4.7	0.010	0.00000104	0.000046	0.0229	0.0136	0.01406	0.01274	12.6	1.95	0.000166	0.000131	0.42	0.00004868	0.00004001	4.7	14.4	0.0000124	0.001062	0.00081	0.00150	0.6	0.0120	
	1st Quartile		0.000245	0.000225	0.0169	0.015	35.5	0.07	2.50E-06	0.000362	0.028	0.0189	0.00828	0.00527	94.8	10.18	0.00018	0.000178	6.62	6.85E-06	2.50E-06	25.6	68.5	2.00E-05	0.00056	0.00054	0.00315	3.1	0.0305	
	Median		0.000269	0.00027	0.0181	0.0175	39	0.075	5.00E-06	0.000387	0.0392	0.0219	0.0211	0.0128	96.6	10.8	0.001	0.000189	6.79	0.0002	5.00E-06	27.5	81	4.00E-05	0.005	0.00071	0.0036	3.2	0.037	
	3rd Quartile		0.000302	0.000272	0.0284	0.0224	40	0.079	2.50E-06	0.000411	0.0605	0.0392	0.0294	0.02075	97.7	11.3	0.0005	0.000231	7.03	0.0001	2.17E-05	28.1	84	2.00E-05	0.0025	0.00143	0.00425	3.2	0.0445	
Long Lake Middle 1MB LLMB E206619	Average		0.000341	0.000263	0.0195	0.01425	40.4	0.078	0.00000300	0.000381	0.0906	0.0353	0.3487	0.27004	98.5	11.21	0.000376	0.000270	6.72	0.00005524	0.00002200	28.8	77.3	0.0000260	0.00183	0.00102	0.0045	3.0	0.075	
	Count		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	11	15	15		
	Minimum		0.00026	0.000230	0.0102	0.00554	33	0.068	<0.0000050	0.000332	0.0408	0.0199																		

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Long Lake Middle 1 M LLM1 EZ06619	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Long Lake Middle 4 M LLM4 EZ06619	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Long Lake Middle 9 M LLM9 EZ06619	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Long Lake Middle 1MB LLMB EZ06619	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic		As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Lower Quinsam Lake 1M	Average	0.000790	0.000730	0.02972	0.01904	34.4	0.0399	0.00000369	0.000551	0.0852	0.0534	0.010579	0.005149	35.3	9.31	0.000324	0.0002342	7.17	0.00005719	0.00003706	6.84	21.2	0.000069	0.00171	0.00435	0.00349	3.0	0.0158		
	LQL1	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	11	15	14	
	E292118	Minimum	0.000503	0.000438	0.00858	0.00655	23	0.022	<0.0000050	0.00042	0.0399	0.0312	0.000549	<0.0010	26.3	3.55	<0.00010	<0.000020	6.54	<0.0000050	<0.0000050	<3.0	8.7	<0.00010	0.00027	0.00074	<0.0030	2.2	<0.020	
		Maximum	0.000974	0.00091	0.0953	0.0399	42	0.063	0.0000053	0.000758	0.19	0.113	0.037	0.0223	45.3	14.4	<0.0010	<0.0010	7.98	<0.00020	<0.00020	11.7	35	0.000104	<0.0050	0.0329	0.0071	4.9	0.054	
		Geometric Mean	0.000778	0.000717	0.02242	0.01600	33.9	0.0373	0.00000347	0.000543	0.0781	0.0506	0.006644	0.002840	34.8	8.64	0.000252	0.0001534	7.16	0.00002938	0.00001280	6.04	19.6	0.000067	0.00136	0.00205	0.00301	2.9	0.0131	
		Count <DL	0	0	0	0	0	5	13	0	0	0	0	1	0	0	9	6	0	10	9	1	0	5	8	4	4	0	11	
		Standard Deviation	0.000135	0.000136	0.02489	0.01151	6.0	0.0148	0.00000132	0.000099	0.0390	0.0202	0.010909	0.006591	6.3	3.46	0.000197	0.0001976	0.44	0.00004745	0.00004619	3.10	8.4	0.000018	0.00093	0.00835	0.00189	0.8	0.0129	
		1st Quartile	0.00072	0.000642	0.0101	0.01025	29.5	0.025	2.50E-06	0.000479	0.0547	0.0397	0.0045	0.001275	29.3	6.25	0.000119	9.90E-05	6.97	8.35E-06	3.75E-06	4.25	14	5.00E-05	0.00071	0.00114	0.0015	2.3	0.01	
		Median	0.00081	0.000711	0.026	0.0128	36	0.046	5.00E-06	0.000543	0.08	0.0518	0.0047	0.00252	37.6	10.2	0.001	0.000121	7.17	0.0002	5.30E-06	6.9	23	7.10E-05	0.005	0.00151	0.0037	2.7	0.01	
		3rd Quartile	0.000891	0.000852	0.0357	0.0252	39.5	0.0515	5.00E-06	0.000586	0.104	0.0593	0.013475	0.003785	39.8	12.2	0.0005	0.0005	7.32	0.0001	0.0001	9.3	27.5	8.10E-05	0.0025	0.0025	0.0045	3.2	0.01	
Lower Quinsam Lake 4M	Average	0.000790	0.000726	0.0309	0.01926	34.4	0.0403	0.00000371	0.000549	0.0911	0.0523	0.01107	0.004835	35.4	9.49	0.000323	0.000238	7.25	0.0000575	0.00003561	7.13	21.6	0.000069	0.00153	0.00125	0.00333	3.0	0.0144		
	LQL4	Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	10	14	15		
	E292118	Minimum	0.000498	0.000439	0.0082	0.00679	24	0.021	<0.0000050	0.00035	0.0483	0.0300	0.0041	<0.0010	25.6	3.54	<0.00010	0.000055	6.77	0.0000052	<0.0000050	<3.0	8.6	<0.00010	0.00021	0.00021	<0.0030	2.1	<0.020	
		Maximum	0.00095	0.000926	0.0915	0.043	42	0.063	0.0000054	0.000776	0.192	0.111	0.0371	0.0223	43.8	14.7	<0.0010	<0.0010	7.90	<0.00020	<0.00020	12.1	35	0.000109	<0.0050	<0.0050	0.0060	5	0.04	
		Geometric Mean	0.000777	0.000714	0.0233	0.01598	33.9	0.0375	0.00000349	0.000538	0.0844	0.0495	0.00798	0.002123	34.8	8.77	0.000250	0.000174	7.24	0.0000315	0.00000982	6.32	19.8	0.000067	0.00105	0.00092	0.00290	2.9	0.0126	
		Count <DL	0	0	0	0	0	5	13	0	0	0	0	2	0	0	9	5	0	9	13	1	0	5	9	5	4	0	12	
		Standard Deviation	0.000140	0.000129	0.0250	0.01218	6.0	0.0153	0.00000135	0.000116	0.0389	0.0198	0.01060	0.006876	6.3	3.62	0.000198	0.000193	0.37	0.0000471	0.00004715	3.10	8.9	0.000019	0.00108	0.00095	0.00169	0.9	0.0096	
		1st Quartile	0.000704	0.000654	0.0114	0.00931	29.2	0.025	2.50E-06	0.000476	0.0653	0.0432	0.00475	0.000784	30.3	6.36	0.000125	0.0001	6.98	9.40E-06	2.50E-06	4.7	14	5.00E-05	0.00051	0.00049	0.0015	2.2	0.01	
		Median	0.00078	0.000723	0.0277	0.0137	34	0.046	5.00E-06	0.00056	0.08	0.0463	0.0054	0.00189	38.2	10.5	0.001	0.000122	7.21	0.0002	5.00E-06	8.1	24	7.00E-05	0.005	0.00075	0.00385	2.8	0.02	
		3rd Quartile	0.000935	0.000802	0.0372	0.0253	40	0.053	5.00E-06	0.000576	0.1075	0.0565	0.01346	0.003565	39.8	12.3	0.0005	0.0005	7.41	0.0001	0.0001	8.95	28.5	8.10E-05	0.0025	0.0025	0.00455	3.2	0.01	
Lower Quinsam Lake 9M	Average	0.000716	0.000657	0.0327	0.02039	31.4	0.0327	0.00000367	0.000568	0.0980	0.0559	0.01271	0.006034	32.4	7.57	0.000328	0.000247	7.12	0.00005704	0.00003583	5.43	16.7	0.000071	0.00154	0.00117	0.00375	3.1	0.0139		
	LQL9	Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	10	14	14	
	E292118	Minimum	0.00047	0.00042	0.0095	0.00779	24	0.021	<0.0000050	0.00040	0.0548	0.0338	0.0048	<0.0010	25.4	3.32	<0.00010	0.000068	6.75	<0.0000050	<0.0000050	<3.0	8.1	<0.00010	0.00017	0.00024	<0.0030	2.3	<0.020	
		Maximum	0.00092	0.00086	0.0948	0.0411	39	0.053	0.0000050	0.000754	0.182	0.104	0.0379	0.0257	42.5	13.2	<0.0010	<0.0010	7.77	<0.00020	<0.00020	10.2	32	0.000096	<0.0050	<0.0050	0.0054	5.1	0.043	
		Geometric Mean	0.000707	0.000649	0.0265	0.01749	31.1	0.0313	0.00000345	0.000559	0.0915	0.0531	0.00938	0.003071	32.1	7.20	0.000257	0.000190	7.11	0.00002954	0.00001035	4.97	15.8	0.000069	0.00106	0.00081	0.00357	3.1	0.0121	
		Count <DL	0	0	0	0	0	7	13	0	0	0	0	1	0	0	9	5	0	10	12	1	0	5	9	5	1	0	12	
		Standard Deviation	0.000117	0.000104	0.0235	0.01169	4.0	0.0104	0.00000129	0.000101	0.0395	0.0199	0.01166	0.007930	4.8	2.46	0.000194	0.000187	0.27	0.00004757	0.00004700	2.20	6.1	0.000017	0.00107	0.00099	0.00106	0.8	0.0102	
		1st Quartile	0.000665	0.000603	0.0164	0.0114	28.2	0.025	2.50E-06	0.000514	0.0726	0.045	0.0056	0.001425	29.6	6.11	0.000124	0.000117	6.95	8.55E-06	2.50E-06	4.3	13.5	5.00E-05	0.00048	0.00041	0.00317	2.8	0.01	
		Median	0.00069	0.00065	0.0309	0.0153	31	0.05	5.00E-06	0.000551	0.08	0.0478	0.00693	0.00283	30.7	6.92	0.001	0.000134	7.08	0.0002	5.40E-06	4.6	14	7.60E-05	0.005	0.00057	0.004	2.9	0.01	
		3rd Quartile	0.000785	0.000719	0.0398	0.02615	33.8	0.043	5.00E-06	0.000632	0.119	0.06	0.01464	0.004585	35.7	9.31	0.0005	0.0005	7.2	0.0001	0.0001	6.95	20.5	8.30E-05	0.0025	0.0025	0.00435	3.1	0.01	
Lower Quinsam Lake 1MB	Average	0.001272	0.000786	0.0349	0.02065	31.1	0.0275	0.00000575	0.000586	0.6123	0.2578	0.1903	0.18117	31.0	6.07	0.000358	0.000269	6.80	0.0000595	0.00003699	4.06	13.5	0.000071	0.00160	0.00225	0.00457	3.2	0.0218		
	LQLB	Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	11	14	14	
	E292118	Minimum	0.000484	0.000436	0.0124	0.00612	24	0.022	<0.0000050	0.00028	0.081	0.0489	0.0048	0.0032	25.6	3.36	0.00012	0.000062	6.47	0.0000072	<0.0000050	<3.0	8.1	<0.00						

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Lower Quinsam Lake 1M LQL1 E292118	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Lower Quinsam Lake 4M LQL4 E292118	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Lower Quinsam Lake 9M LQL9 E292118	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Lower Quinsam Lake 1MB LQLB E292118	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
			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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Settling Pond #4	Average		0.00076	0.00066	0.02505	0.00889	342	0.746	0.00000643	0.000366	0.468	0.0392	0.2386	0.2154	459	260.1	0.00148	0.001438	7.57	0.000131	0.00012418	239	544	0.0001124	0.00391	0.00364		8.5	
	Count		16	21	16	21	22	16	21	21	16	21	16	21	16	21	21	16	21	56	16	21	239	544	21	16	21		6
WD	Minimum		0.00033	0.00016	<0.0030	0.00141	100	0.241	<0.0000050	<0.00020	0.058	<0.010	0.0231	0.0024	238	30.7	<0.0010	0.000315	7.02	<0.00020	<0.0000050	81	250	<0.000040	<0.0050	0.00114		1.1	
	Maximum		0.00187	0.00152	0.232	0.113	510	1.03	<0.000020	0.00078	0.947	0.253	0.800	0.712	620	391	0.0033	0.0032	8	<0.00040	<0.00040	348	860	0.00112	0.015	0.0104		42	
E207409	Geometric Mean		0.00066	0.00052	0.00738	0.00320	317	0.686	0.00000590	0.000326	0.327	0.0212	0.1475	0.1029	436	224.1	0.00117	0.001151	7.56	0.000124	0.00009190	224	516	0.0000648	0.00333	0.00325		2.8	
	Count <DL		0	0	6	15	0	0	21	6	0	2	0	0	0	0	7	7	0	16	20	0	0	20	15	19		0	
	Standard Deviation		0.00044	0.00046	0.05688	0.02422	117	0.254	0.00000269	0.000183	0.330	0.0569	0.2240	0.2112	140	102.8	0.00096	0.000892	0.26	0.000048	0.00006172	77	170	0.0002324	0.00316	0.00201		16.4	
	1st Quartile		0.00044	0.0003	0.00263	0.003	290	0.69	1.00E-05	0.0004	0.131	0.011	0.0611	0.0568	330	241	0.0005	0.001	7.41	0.0001	0.0002	191	437	0.0001	0.0025	0.005		1.2	
	Median		0.00061	0.00043	0.0061	0.006	340	0.809	1.00E-05	0.00033	0.498	0.0174	0.1475	0.121	508	278	0.0014	0.0014	7.6	0.0001	0.0002	232	520	0.0001	0.0025	0.005		1.9	
	3rd Quartile		0.00095	0.00112	0.01525	0.006	445	0.931	2.00E-05	0.00041	0.784	0.0344	0.3852	0.386	577	327	0.0024	0.0023	7.77	0.0002	0.0004	315	660	0.0002	0.005	0.01		2.8	
North Pit Culvert	Average		0.00044	0.000433	0.00814	0.00713	303	0.694	0.00000575	0.000259	0.070	0.0227	0.0168	0.0169	368	241.0	0.00050	0.000598	8.04	0.000100	0.00011025	209.6	464	0.0000570	0.00250	0.00280		2.2	
	Count		10	10	10	10	6	10	10	10	10	10	10	10	10	10	10	10	16	10	10	10	150	150	10	10	10		3
WC	Minimum		0.0002	0.00019	<0.0030	<0.0030	110	0.234	<0.0000050	<0.00020	0.032	0.0112	0.0065	0.0048	126	35.3	<0.0010	0.000481	7.55	<0.00020	<0.0000050	57.1	150	<0.000040	<0.0050	0.00049		1.9	
	Maximum		0.00083	0.00074	0.0256	0.0206	430	0.983	<0.000020	0.00048	0.154	0.0366	0.0261	0.0248	552	395	<0.0010	<0.0020	8.49	<0.00020	<0.00040	310	820	<0.00020	<0.0050	<0.010		2.4	
E207411	Geometric Mean		0.00041	0.000408	0.00539	0.00477	279	0.628	0.00000536	0.000240	0.063	0.0207	0.0154	0.0151	333	198.5	0.00050	0.000572	8.04	0.000100	0.00007943	179.5	402	0.0000524	0.00250	0.00244		2.2	
	Count <DL		0	0	2	4	0	0	10	3	0	0	0	0	0	0	10	9	0	10	10	0	0	10	10	9		0	
	Standard Deviation		0.00017	0.000149	0.00806	0.00640	112	0.260	0.00000237	0.000104	0.036	0.0100	0.0066	0.0068	153	115.8	0.00000	0.000212	0.23	0.000000	0.00005623	100.4	241	0.0000245	0.00000	0.00132		0.3	
	1st Quartile		0.00038	0.00038	0.0038	0.00187	272	0.678	5.00E-06	0.000203	0.047	0.015	0.0152	0.015	231	212	0.0005	0.0005	7.92	0.0001	0.0001	134.5	295	5.00E-05	0.0025	0.0025		2	
	Median		0.00044	0.00045	0.0045	0.00452	315	0.756	5.00E-06	0.00022	0.06	0.0207	0.0166	0.0177	385	258.5	0.0005	0.0005	8.04	0.0001	0.0001	246	380	5.00E-05	0.0025	0.0025		2.2	
	3rd Quartile		0.0005	0.000478	0.01108	0.01128	372	0.865	5.00E-06	0.000318	0.081	0.0327	0.021	0.0214	496	313.2	0.0005	0.0005	8.19	0.0001	0.0001	295.5	670	5.00E-05	0.0025	0.0025		2.3	
Settling Pond # 1	Average		0.00198	0.00219	0.0385	0.01619	89.8	0.147	0.00000517	0.000269	0.171	0.0762	0.0469	0.0321	262	19.2	0.00050	0.000485	7.43	0.000100	0.00008411	96.8	261	0.000071	0.00250	0.00317		3.0	
	Count		7	12	7	12	12	7	12	12	7	12	7	12	7	12	7	12	46	7	12	12	44	12	7	12		2	
E218582	Minimum		0.00063	0.00096	0.0051	<0.0030	49	0.055	<0.0000050	<0.00020	0.110	0.0303	0.0132	0.0144	86	10	<0.0010	0.000396	6.51	<0.00020	<0.0000050	53.2	97	0.000049	<0.0050	0.00030		2.7	
	Maximum		0.00519	0.00516	0.0887	0.0591	110	0.270	0.000012	0.00054	0.343	0.133	0.0956	0.0666	398	27.8	<0.0010	<0.0010	8.14	<0.00020	<0.00020	123	340	0.00020	<0.0050	0.0127		3.2	
	Geometric Mean		0.00151	0.00191	0.0244	0.00656	87.8	0.126	0.00000479	0.000235	0.158	0.0706	0.0372	0.0279	229	18.4	0.00050	0.000484	7.43	0.000100	0.00005878	93.1	249	0.000061	0.00250	0.00240		2.9	
	Count <DL		0	0	0	5	0	0	11	3	0	0	0	0	0	0	7	10	0	7	11	0	0	8	7	10		0	
	Standard Deviation		0.00166	0.00132	0.0322	0.01858	17.8	0.082	0.00000236	0.000136	0.082	0.0306	0.0324	0.0180	130	5.4	0.00000	0.000035	0.36	0.000000	0.00003713	26.3	72	0.000050	0.00000	0.00307		0.4	
	1st Quartile		0.00092	0.00136	0.0114	0.0015	83	0.084	5.00E-06	0.000175	0.127	0.0561	0.0215	0.0191	168	15.9	0.0005	0.0005	7.22	0.0001	0.0001	78.2	210	5.00E-05	0.0025	0.0025		2.8	
	Median		0.00116	0.00178	0.0367	0.0096	94	0.119	5.00E-06	0.000277	0.138	0.0706	0.035	0.0234	246	18.8	0.001	0.0005	7.48	0.0002	0.0001	104.8	270	5.00E-05	0.005	0.0025		3	
	3rd Quartile		0.00253	0.00243	0.0581	0.02473	100	0.208	5.00E-06	0.000343	0.175	0.0906	0.0708	0.0473	386	21.9	0.0005	0.0005	7.69	0.0001	0.0001	119	330	5.00E-05	0.0025	0.0025		3.1	
Culvert into Long Lake	Average		0.00133	0.001136	0.0722	0.02386	74	0.156	0.00000458	0.000342	0.649	0.3332	0.3109	0.35106	174.5	16.86	0.00050	0.000443	7.14	0.000100	0.00008443	48.9	147	0.000068	0.00250	0.00339	0.0095	4.8	0.0912
	Count		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	50	12	12	12	50	12	12	12	10	6	12
LLE	Minimum		0.00050	0.00046	0.0056	<																							

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Settling Pond #4 WD EZ07409	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
North Pit Culvert WC EZ07411	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Settling Pond # 1 SPD EZ18582	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Culvert into Long Lake LLE EZ92130	Average	0.0225
	Count	12
	Minimum	<0.015
	Maximum	0.083
	Geometric Mean	0.0135
	Count <DL	8
	Standard Deviation	0.0279
	1st Quartile	0.0075
	Median	0.0075
	3rd Quartile	0.0222

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026		Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	DOC mg/L	N-NO23 mg/L	
Seep into Long Lake LLS E292131	Average		0.00143	0.00123	0.00417	0.00143	205.0	0.468	0.00000438	0.000105	0.541	0.435	0.200	0.209	559	79.4	0.0014	0.00150	7.04	0.000100	0.0000763	193.8	520	0.000071	0.00250	0.00257			1.2	
	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			1
	Minimum		0.00109	0.00104	<0.0030	0.00121	170	0.381	<0.0000050	<0.00020	0.317	0.292	0.151	0.165	445	61.4	0.0012	0.0013	6.86	<0.00020	0.0000052	150	440	<0.00010	<0.0050	<0.0050			1.2	
	Maximum		0.00177	0.00139	0.0061	<0.0030	230	0.559	<0.000010	0.000120	0.945	0.859	0.287	0.256	610	95.1	0.0016	0.00182	7.14	<0.00020	<0.00020	211	580	0.00011	<0.0050	0.00279			1.2	
	Geometric Mean		0.00140	0.00122	0.00365	0.00142	203.7	0.462	0.00000420	0.000105	0.488	0.385	0.193	0.204	554	78.5	0.0014	0.00149	7.04	0.000100	0.0000478	191.9	517	0.000067	0.00250	0.00257			1.2	
	Count <DL		0	0	1	3	0	0	4	3	0	0	0	0	0	0	0	0	0	0	4	3	0	0	2	4	3			0
	Standard Deviation		0.00034	0.00017	0.00214	0.00015	26.5	0.083	0.00000125	0.000010	0.294	0.282	0.063	0.048	77	13.9	0.0002	0.00023	0.12	0.000000	0.0000474	29.2	58	0.000028	0.00000	0.00014			0.0	
	1st Quartile		0.00117	0.00111	0.00292	0.00143	192.5	0.408	4.38E-06	0.0001	0.325	0.294	0.155	0.169	543	74.7	0.0014	0.00137	7.01	0.0001	7.63E-05	192.8	507	5.00E-05	0.0025	0.0025			1.2	
	Median		0.00143	0.00125	0.00455	0.0015	210	0.465	5.00E-06	0.0001	0.452	0.295	0.181	0.207	591	80.7	0.0014	0.00145	7.08	0.0001	0.0001	207	530	6.20E-05	0.0025	0.0025			1.2	
	3rd Quartile		0.00169	0.00136	0.0058	0.0015	222.5	0.524	5.00E-06	0.000105	0.668	0.437	0.227	0.246	607	85.4	0.0014	0.00158	7.11	0.0001	0.0001	208	542	8.30E-05	0.0025	0.00257			1.2	
Long Lake Middle Seep LLSM E292131	Average		0.00035	0.000236	0.0243	0.00628	184.3	0.379	0.00000429	0.000349	0.177	0.0626	0.0370	0.0298	448	63.5	0.00079	0.000781	7.58	0.000220	0.00007214	146.7	397	0.000118	0.00250	0.002661			1.3	
	Count		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			2
	Minimum		0.00013	0.00011	0.0078	0.00231	150	0.284	<0.0000050	0.000195	0.036	0.0148	0.0109	0.0098	383	50.1	<0.0010	<0.0010	7.4	<0.00020	<0.0000050	132	330	<0.00010	<0.0050	<0.00010			1.2	
	Maximum		0.00109	0.00039	0.0802	0.0109	210	0.473	<0.000010	0.00051	0.711	0.133	0.113	0.0594	516	72.0	0.0013	0.0012	7.73	0.00094	<0.00020	168	460	0.00022	<0.0050	0.00608			1.4	
	Geometric Mean		0.00026	0.000212	0.0171	0.00570	183.3	0.374	0.00000410	0.000337	0.103	0.0469	0.0281	0.0261	446	63.0	0.00072	0.000726	7.58	0.000138	0.00003486	146.3	395	0.000104	0.00250	0.001623			1.3	
	Count <DL		0	0	0	0	0	0	7	0	0	0	0	0	0	0	4	3	0	6	7	0	0	2	7	6			0	
	Standard Deviation		0.00035	0.000114	0.0258	0.00279	19.9	0.066	0.00000122	0.000099	0.241	0.0478	0.0349	0.0161	43	7.7	0.00036	0.000320	0.12	0.000317	0.00004758	11.8	39	0.000063	0.00000	0.001762			0.1	
	1st Quartile		0.00015	0.000143	0.0095	0.00455	175	0.334	3.75E-06	0.00031	0.056	0.0246	0.0181	0.0202	428	59.2	0.0005	0.0005	7.52	0.0001	5.13E-05	139	385	7.40E-05	0.0025	0.0025			1.2	
	Median		0.00023	0.00021	0.0119	0.0068	190	0.394	1.00E-05	0.00033	0.075	0.0472	0.0255	0.0271	447	66.2	0.001	0.000615	7.56	0.0002	0.0002	146	400	0.00011	0.005	0.005			1.3	
	3rd Quartile		0.00036	0.000327	0.0256	0.00743	195	0.419	5.00E-06	0.000394	0.153	0.097	0.0367	0.0358	468	68.8	0.0011	0.001075	7.67	0.0001	0.0001	151.5	410	0.00015	0.0025	0.0025			1.3	
75 Surface Decant 75SD E292069	Average		0.00073	0.000602	0.0509	0.00321	125	0.0459	0.00000464	0.000772	0.089	0.01031	0.0333	0.0150	148.3	4.88	0.00096	0.000528	7.33	0.000157	0.0000866	15.49	47.8	0.0000457	0.00393	0.00312			2.9	
	Count		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	7			7
	Minimum		0.00011	0.00011	0.009	<0.0030	52	<0.0050	<0.0000050	0.0004	0.014	<0.0050	0.0088	0.0057	66.4	2.09	<0.0010	0.000098	6.87	<0.00020	0.0000065	<3.0	5.2	<0.000040	<0.0050	<0.0050			1.3	
	Maximum		0.00267	0.00240	0.120	0.0064	190	<0.25	<0.000010	0.00253	0.156	0.0219	0.105	0.0258	395	13.5	<0.0050	0.0011	7.57	<0.0010	<0.00020	87.5	260	<0.00010	<0.025	0.00681			5.8	
	Geometric Mean		0.00047	0.000368	0.0378	0.00275	116	0.0365	0.00000453	0.000605	0.072	0.00842	0.0244	0.0133	123.7	4.00	0.00075	0.000443	7.33	0.000126	0.0000677	4.23	17.4	0.0000439	0.00315	0.00288			2.4	
	Count <DL		0	0	0	3	0	6	7	0	0	1	0	0	0	0	6	5	0	7	6	4	0	7	7	6			0	
	Standard Deviation		0.00087	0.000806	0.0370	0.00188	45	0.0389	0.00000094	0.000777	0.050	0.00681	0.0331	0.0078	114.4	3.99	0.00081	0.000293	0.27	0.000151	0.0000353	31.88	93.8	0.0000113	0.00378	0.00163			1.9	
	1st Quartile		0.00035	0.000249	0.0294	0.0015	107	0.025	5.00E-06	0.000458	0.065	0.0064	0.0163	0.01	86.8	2.85	0.0005	0.0005	7.38	0.0001	0.0001	1.5	9.1	5.00E-05	0.0025	0.0025			1.7	
	Median		0.00046	0.00029	0.0474	0.0033	120	0.05	1.00E-05	0.00049	0.067	0.0081	0.0175	0.013	106	3.33	0.001	0.001	7.4	0.0002	0.0002	3	11	0.0001	0.005	0.005			2.1	
	3rd Quartile		0.00056	0.00046	0.0605	0.00413	150	0.048	5.00E-06	0.000535	0.128	0.01345	0.0347	0.0202	148.5	4.78	0.0011	0.0005	7.44	0.0001	0.0001	7.45	20	5.00E-05	0.0025	0.0025			3.8	
Stream 1 75 75 E292109	Average		0.000070	0.000075	0.0355	0.0259	17.9	0.0250	0.00000444	0.000311	0.0132	0.00444	0.00063	0.0004037	16.1	1.75	0.00050	0.0003946	7.01	0.000100	0.0000806	1.50	0.83	0.0000532	0.00250	0.002923			1.994	
	Count		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			9	
	Minimum		<0.00010	<0.00010	0.0265	0.0139	12	<0.050	<0.0000050	<0.00020	<0.010	0.0017	<0.0010	<0.000050	11.7	1.37	<0.0010	<0.000020	6.32	<0.00020	0.0000091	<3.0	<1.0	<0.000040	<0.0050	<0.00010			<0.50	
	Maximum		0.00012	0.00011	0.0478	0.0345	29	<0.050	<0.000010	0.000563	0.038	0.0073	0.0012	<0.0010	26.2	2.77	<0.0010	<0.0010	7.65	<0.00020	<0.00020	<3.0	2.0	0.000109	<0.0050	0.00876			3.3	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Seep into Long Lake LLS E292131	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Long Lake Middle Seep LLSM E292131	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
75 Surface Decant 75SD E292069	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Stream 1 75 75 E292109	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2 North Portal Sump 2NPS E283433	Average	0.000347	0.000166	0.1299	0.01487	164	0.521	0.0000272	0.000633	0.279	0.00890	0.1431	0.14771	612	102.1	0.00519	0.00518	7.59	0.000150	0.0001103	227.9	621	0.0001233	0.00586	0.00685			
	Count	12	12	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
	Minimum	<0.00010	<0.00010	0.0072	<0.0060	50	0.18	<0.000010	<0.00040	0.024	<0.0050	0.0033	<0.0020	214	12.2	<0.0020	<0.0020	7.45	<0.00020	<0.000010	52.1	150	<0.000080	<0.0050	<0.0050			
	Maximum	0.00112	0.000410	0.676	0.0255	300	0.94	0.000089	0.00131	1.57	0.0288	0.285	0.342	1060	206	0.0116	0.0122	7.78	<0.00040	<0.00040	420	1100	0.00031	0.0166	0.0202			
	Geometric Mean	0.000247	0.000123	0.0606	0.01232	132	0.449	0.0000202	0.000549	0.142	0.00621	0.0882	0.07193	530	67.0	0.00400	0.00390	7.58	0.000141	0.0000807	186.9	515	0.0001040	0.00503	0.00566			
	Count <DL	2	5	0	2	0	0	4	1	0	6	0	1	0	0	2	2	0	12	11	0	0	0	6	9	6		
	Standard Deviation	0.000305	0.000125	0.1894	0.00749	105	0.272	0.0000233	0.000357	0.430	0.00795	0.0868	0.10174	315	77.6	0.00357	0.00371	0.14	0.000052	0.0000635	131.8	350	0.0000757	0.00386	0.00491			
	1st Quartile	0.000122	5.00E-05	0.0354	0.011	73	0.29	1.00E-05	0.000395	0.072	0.0025	0.0936	0.0822	345	29.4	0.00302	0.00243	7.46	0.0001	0.0001	113	317	8.75E-05	0.00438	0.00438			
	Median	0.00028	0.00016	0.0529	0.0156	110	0.509	2.25E-05	0.00046	0.13	0.00685	0.1615	0.165	617	105.7	0.0037	0.00391	7.52	0.00015	0.0001	240.5	650	0.000105	0.005	0.0053			
	3rd Quartile	0.000415	0.000223	0.1299	0.02017	270	0.735	3.22E-05	0.000898	0.225	0.01235	0.1852	0.1905	855	166.2	0.00755	0.00803	7.72	0.0002	0.000125	328.2	885	0.00016	0.00565	0.0082			
	3-Mains 2North 3M2N	Average	0.00041	0.000245	0.0199	0.00516	367.1	0.702	0.0000181	0.000552	0.664	0.0400	0.204	0.206	392	307.4	0.00264	0.00263	7.25	0.000100	0.0001031	246.7	645	0.0000529	0.00294	0.00627		0.90
Count		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4	7	7	7	7	7	7	7			
Minimum		0.00032	0.00015	0.0037	<0.0030	350	0.653	<0.000010	<0.00040	0.248	0.0097	0.126	0.137	348	281	<0.0010	<0.0010	7.09	<0.00020	0.0000220	209	550	<0.000040	<0.0050	<0.0050		0.69	
Maximum		0.00061	0.00045	0.0562	0.0119	380	0.745	0.000051	0.00112	1.26	0.101	0.230	0.245	451	329	0.0092	0.0091	7.48	<0.00020	<0.00040	270	740	<0.00020	0.0056	0.0233		1.0	
Geometric Mean		0.00040	0.000229	0.0130	0.00402	367.0	0.702	0.0000118	0.000456	0.576	0.0314	0.201	0.203	390	306.9	0.00173	0.00171	7.25	0.000100	0.0000889	245.8	642	0.0000484	0.00281	0.00426		0.89	
Count <DL		0	0	0	3	0	0	3	1	0	0	0	0	0	0	1	2	0	7	6	0	0	7	6	4		0	
Standard Deviation		0.00010	0.000103	0.0192	0.00373	11.1	0.032	0.0000186	0.000372	0.369	0.0306	0.037	0.035	40	20.1	0.00304	0.00301	0.17	0.000000	0.0000517	22.0	69	0.0000236	0.00117	0.00763		0.12	
1st Quartile		0.00034	0.000175	0.0055	0.00225	360	0.683	5.00E-06	0.000302	0.381	0.0221	0.204	0.201	357	292	0.0011	0.00105	7.14	0.0001	0.0001	237	600	5.00E-05	0.0025	0.0025		0.81	
Median		0.00037	0.000235	0.0157	0.0047	370	0.705	1.10E-05	0.00034	0.669	0.028	0.216	0.213	391	308	0.0014	0.00138	7.22	0.0002	0.0002	255	630	0.0001	0.005	0.0025		0.96	
3rd Quartile		0.00044	0.000265	0.0264	0.00676	375	0.724	2.50E-05	0.0008	0.854	0.0485	0.225	0.224	420	325	0.0026	0.00265	7.33	0.0001	0.0001	259.5	700	5.00E-05	0.0025	0.0053		1	
1-Mains 2North 1M2N		Average	0.00406	0.00427	0.00441	0.00281	505.0	1.045	0.0000080	0.000202	7.04	7.21	0.690	0.721	586	364.9	0.00090	0.00080	6.96	0.000180	0.000160	312	818	0.000188	0.00600	0.00400		0.95
	Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	
	Minimum	0.00225	0.00201	<0.0030	<0.0030	490	0.84	<0.000010	<0.00020	4.98	4.87	0.534	0.509	462	333	<0.0010	<0.0010	6.66	<0.00020	<0.00020	255	670	<0.00010	<0.0050	<0.0050		0.71	
	Maximum	0.0117	0.0144	0.0159	0.0056	520	1.32	<0.000020	0.00042	9.13	8.97	0.931	0.963	756	402	<0.0020	<0.0020	7.39	<0.00040	<0.00040	366	990	0.00069	0.02	<0.010		1.7	
	Geometric Mean	0.00357	0.00358	0.00337	0.00259	504.9	1.037	0.0000076	0.000188	6.91	7.06	0.677	0.708	577	364.3	0.00087	0.00076	6.95	0.000174	0.000152	309	809	0.000110	0.00500	0.00379		0.92	
	Count <DL	0	0	8	9	0	0	10	8	0	0	0	0	0	0	10	10	0	10	10	0	0	8	9	10		0	
	Standard Deviation	0.00277	0.00363	0.00433	0.00121	10.8	0.142	0.0000026	0.000087	1.43	1.47	0.141	0.144	104	22.6	0.00021	0.00026	0.21	0.000042	0.000052	42	121	0.000241	0.00503	0.00129		0.29	
	1st Quartile	0.00262	0.00283	0.003	0.00187	500	0.983	5.00E-06	0.0002	5.84	6.16	0.55	0.599	491	346.2	0.001	0.0005	6.85	0.0002	0.0001	272	702	5.00E-05	0.005	0.0025		0.77	
	Median	0.00334	0.00304	0.003	0.003	505	1.02	1.00E-05	0.0002	7.04	7.69	0.699	0.76	592	365	0.001	0.001	6.93	0.0002	0.0002	323	815	0.0001	0.005	0.005		0.85	
	3rd Quartile	0.00398	0.004	0.003	0.003	510	1.06	1.00E-05	0.0002	8.29	8.28	0.776	0.815	663	378.2	0.001	0.001	7.05	0.0002	0.0002	341	932	0.0001	0.005	0.005		1	
	5 Mains 2North 5M#2	Average	0.00739	0.00762	0.00183	0.00165	565.0	1.015	0.0000055	0.000128	1.777	1.291	0.197	0.201	268.7	294.5	0.00055	0.00055	7.16	0.000314	0.000110	123.7	324	0.000055	0.00345	0.00487		0.854
Count		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	
Minimum		0.00133	0.00077	<0.0030	<0.0030	540	0.85	<0.000010	<0.00020	0.753	0.808	0.165	0.171	212	249	<0.0010	<0.0010	6.8	<0.00020	<0.00020	88	240	<0.00010	<0.0050	<0.0050		<0.50	
Maximum		0.00971	0.0102	0.0033	<0.0060	590	1.47	<0.000020	0.00028	8.77	3.75	0.230	0.235	308	335	<0.0020	<0.0020	7.63	0.00224	<0.00040	165	390	<0.00020	0.0095	0.0182		1.3	
Geometric Mean		0.00669	0.00655	0.00174	0.00161	564.8	1.004	0.0000054	0.000119	1.236	1.155	0.196	0.200	266.6	293.6	0.00054	0.00054	7.16	0.000136	0.000107	121.5	319	0.000054	0.00306	0.00367		0.797	
Count <DL		0	0	9	10	0	0	10	9	0	0	0	0	0	0	0	10	10	0	9	10	0	0	0	9	8		1
Standard Deviation		0.00234	0.00265	0.00070	0.00047	15.1	0.173	0.0000016	0.000062	2.459	0.869	0.026	0.026	34.9	24.2													

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
2 North Portal Sump 2NPS E283433	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
3-Mains 2North 3M2N	Average	0.078
	Count	1
	Minimum	0.078
	Maximum	0.078
	Geometric Mean	0.078
	Count <DL	0
	Standard Deviation	0.000
	1st Quartile	0.078
	Median	0.078
	3rd Quartile	0.078
1-Mains 2North 1M2N	Average	0.25
	Count	1
	Minimum	0.25
	Maximum	0.25
	Geometric Mean	0.25
	Count <DL	0
	Standard Deviation	0.00
	1st Quartile	0.25
	Median	0.25
	3rd Quartile	0.25
5 Mains 2North 5M#2	Average	0.12
	Count	1
	Minimum	0.12
	Maximum	0.12
	Geometric Mean	0.12
	Count <DL	0
	Standard Deviation	0.00
	1st Quartile	0.12
	Median	0.12
	3rd Quartile	0.12

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	DOC mg/L	N-NO23 mg/L
MW002	Average		0.00231		0.0075	267.5		0.0000250	0.00050		5.75		1.76		47.0		0.00250	6.71		0.000400	429.2	1200.0	0.000250		0.0125			1.01
	Count		4		4	4		4	4		4		4		4		4	5		4	4	4	4	4		4		4
	Minimum		0.00209		<0.015	260		<0.000050	<0.0010		5.54		1.57		44.6		<0.0050	6.61		<0.00020	414	1200	<0.00050		<0.025			0.94
	Maximum		0.00275		<0.015	270		<0.000050	<0.0010		5.96		1.97		49.2		<0.0050	7.02		<0.0010	444	1200	<0.00050		<0.025			1.1
	Geometric Mean		0.00230		0.0075	267.5		0.0000250	0.00050		5.75		1.75		47.0		0.00250	6.71		0.000334	429.1	1200.0	0.000250		0.0125			1.01
	Count <DL		0		4	0		4	4		0		0		0		4	0		4	0	0	4		4			0
	Standard Deviation		0.00030		0.0000	5.0		0.0000000	0.00000		0.19		0.19		2.0		0.000000	0.17		0.000200	13.0	0.0	0.000000		0.0000			0.07
	1st Quartile		0.00213		0.0075	267.5		2.50E-05	0.0005		5.62		1.61		45.9		0.0025	6.61		0.0004	421.5	1200	0.00025		0.0125			0.98
	Median		0.0022		0.0075	270		2.50E-05	0.0005		5.76		1.75		47.1		0.0025	6.65		0.0005	429.5	1200	0.00025		0.0125			1
	3rd Quartile		0.00237		0.0075	270		2.50E-05	0.0005		5.88		1.9		48.2		0.0025	6.68		0.0005	437.2	1200	0.00025		0.0125			1.02
MW004	Average		0.00149		0.0095	150.0		0.0000050	0.00065		0.01675		0.1148		32.3		0.00105	7.39		0.000100	137.8	365	0.000050		0.00250			1.612
	Count		4		4	4		4	4		4		4		4		4	4		4	4	4	4		4			4
	Minimum		0.00027		0.0062	110		<0.000010	0.00027		<0.0050		0.0044		23		<0.0010	6.85		<0.00020	112	290	<0.00010		<0.0050			<0.50
	Maximum		0.00349		0.0165	180		<0.000010	0.00104		0.0324		0.346		44.2		0.0027	7.92		<0.00020	157	430	<0.00010		<0.0050			2.3
	Geometric Mean		0.00102		0.0088	147.3		0.0000050	0.00054		0.01202		0.0352		31.4		0.00076	7.37		0.000100	136.4	361	0.000050		0.00250			1.216
	Count <DL		0		0	0		4	0		1		0		0		3	0		4	0	0	4		4			1
	Standard Deviation		0.00140		0.0047	31.6		0.0000000	0.00042		0.01224		0.1600		9.2		0.00110	0.59		0.000000	21.5	59	0.000000		0.00000			0.924
	1st Quartile		0.0007		0.0069	132.5		5.00E-06	0.0003		0.01232		0.0088		26.6		0.0005	6.89		0.0001	124	335	5.00E-05		0.0025			1.487
	Median		0.0011		0.0077	155		5.00E-06	0.00065		0.01605		0.0544		31		0.0005	7.39		0.0001	141	370	5.00E-05		0.0025			1.95
	3rd Quartile		0.00188		0.0103	172.5		5.00E-06	0.001		0.02048		0.1604		36.7		0.00105	7.89		0.0001	154.8	400	5.00E-05		0.0025			2.075
QU1009D	Average		0.1006		0.00150	185.0		0.0000050	0.000100		0.833		0.0734		25.7		0.00050	7.44		0.000100	26.0	65.0	0.000050		0.00250			1.2
	Count		2		2	2		2	2		2		2		2		2	2		2	2	2	2		2			2
	Minimum		0.0943		<0.0030	180		<0.000010	<0.00020		0.585		0.0612		17.5		<0.0010	7.15		<0.00020	21.9	58	<0.00010		<0.0050			1.2
	Maximum		0.107		<0.0030	190		<0.000010	<0.00020		1.08		0.0856		33.9		<0.0010	7.72		<0.00020	30.2	72	<0.00010		<0.0050			1.2
	Geometric Mean		0.1004		0.00150	184.9		0.0000050	0.000100		0.795		0.0724		24.4		0.00050	7.43		0.000100	25.7	64.6	0.000050		0.00250			1.2
	Count <DL		0		2	0		2	2		0		0		0		2	0		2	0	0	2		2			0
	Standard Deviation		0.0090		0.00000	7.1		0.0000000	0.000000		0.350		0.0173		11.6		0.00000	0.40		0.000000	5.9	9.9	0.000000		0.00000			0.0
	1st Quartile		0.0975		0.0015	182.5		5.00E-06	0.0001		0.709		0.0673		21.6		0.0005	7.29		0.0001	24	61.5	5.00E-05		0.0025			1.2
	Median		0.1006		0.0015	185		5.00E-06	0.0001		0.833		0.0734		25.7		0.0005	7.44		0.0001	26	65	5.00E-05		0.0025			1.2
	3rd Quartile		0.1038		0.0015	187.5		5.00E-06	0.0001		0.956		0.0795		29.8		0.0005	7.58		0.0001	28.1	68.5	5.00E-05		0.0025			1.2
QU1009S	Average		0.0842		0.00780	140.0		0.0000050	0.000100		4.62		0.388		9.61		0.00050	6.93		0.000100	39.2	104.5	0.000050		0.00250			1.4
	Count		2		2	2		2	2		2		2		2		2	2		2	2	2	2		2			2
	Minimum		0.0833		<0.0030	140		<0.000010	<0.00020		4.44		0.377		9.6		<0.0010	6.86		<0.00020	36.5	99	<0.00010		<0.0050			1.4
	Maximum		0.0851		0.0141	140		<0.000010	<0.00020		4.8		0.399		9.61		<0.0010	6.99		<0.00020	41.9	110	<0.00010		<0.0050			1.5
	Geometric Mean		0.0842		0.00460	140.0		0.0000050	0.000100		4.62		0.388		9.60		0.00050	6.92		0.000100	39.1	104.4	0.000050		0.00250			1.4
	Count <DL		0		1	0		2	2		0		0		0		2	0		2	0	0	2		2			0
	Standard Deviation		0.0013		0.00891	0.0		0.0000000	0.000000		0.25		0.016		0.01		0.000000	0.09		0.000000	3.8	7.8	0.000000		0.00000			0.1
	1st Quartile		0.0837		0.00465	140		5.00E-06	0.0001		4.53		0.383		9.6		0.0005	6.89		0.0001	37.9	101.8	5.00E-05		0.0025			1.4
	Median		0.0842		0.0078	140		5.00E-06	0.0001		4.62		0.388		9.61		0.0005	6.93		0.0001	39.2	104.5	5.00E-05		0.0025			1.4
	3rd Quartile		0.0847		0.01095	140		5.00E-06	0.0001		4.71		0.394		9.61		0.0005	6.96		0.0001	40.5	107.2	5.00E-05		0.0025			1.5

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
MW002	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
MW004	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1009D	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1009S	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Average		0.456		0.00401	180.0		0.00000464	0.0000893		0.253		0.0438		51.8		0.0004300	7.64		0.00008607	29.9	78.3	0.000853		0.00217		0.733	
	Count		7		7	7		7	7		7		7		7		7	7		7	7	7	7		7		7	
	Minimum		0.395		0.00098	160		<0.0000050	<0.000050		0.222		0.0404		39.4		<0.000020	7.4		<0.0000050	25.8	69	0.000092		0.00017		<0.50	
	Maximum		0.506		0.0180	210		<0.000010	<0.00020		0.287		0.0499		69.6		<0.0010	7.93		<0.00020	34.8	87	0.00181		<0.0050		0.97	
	Geometric Mean		0.454		0.00223	178.9		0.00000453	0.0000820		0.252		0.0437		50.8		0.0002859	7.63		0.00005904	29.8	78.0	0.000524		0.00170		0.683	
	Count <DL		0		4	0		7	7		0		0		0		7	0		7	0	0	0		6		1	
	Standard Deviation		0.045		0.00620	21.6		0.00000094	0.0000283		0.026		0.0030		11.5		0.0001852	0.17		0.00003685	3.3	6.9	0.000748		0.00088		0.233	
	1st Quartile		0.422		0.0015	165		5.00E-06	0.0001		0.231		0.0426		43.5		0.0005	7.56		0.0001	27.5	74	0.000255		0.0025		0.7	
	Median		0.464		0.003	170		1.00E-05	0.0002		0.253		0.0432		46		0.001	7.6		0.0002	30.1	75	0.00051		0.005		0.81	
	3rd Quartile		0.491		0.0023	195		5.00E-06	0.0001		0.273		0.0439		60.3		0.0005	7.7		0.0001	32	84.5	0.001525		0.0025		0.85	
QU0813B	Average		0.547		0.00417	135.0		0.0000050	0.000100		0.349		0.0878		33.4		0.00050	7.65		0.000100	41.8	118.7	0.000050		0.00250		1.155	
	Count		6		6	6		6	6		6		6		6		6	6		6	6	6	6		6		6	
	Minimum		0.499		<0.0030	130		<0.000010	<0.00020		0.324		0.0761		30.8		<0.0010	7.49		<0.00020	36.9	92	<0.00010		<0.0050		<0.50	
	Maximum		0.588		0.0110	150		<0.000010	<0.00020		0.386		0.0991		37.7		<0.0010	7.75		<0.00020	46.6	140	<0.00010		<0.0050		2.1	
	Geometric Mean		0.545		0.00276	134.8		0.0000050	0.000100		0.349		0.0875		33.3		0.00050	7.65		0.000100	41.5	117.1	0.000050		0.00250		0.979	
	Count <DL		0		4	0		6	6		0		0		0		6	0		6	0	0	6		6		1	
	Standard Deviation		0.037		0.00424	8.4		0.0000000	0.000000		0.024		0.0081		2.6		0.00000	0.09		0.000000	4.8	20.8	0.000000		0.00000		0.595	
	1st Quartile		0.518		0.0015	130		5.00E-06	0.0001		0.331		0.0839		31.4		0.0005	7.63		0.0001	37.3	102.5	5.00E-05		0.0025		1.01	
	Median		0.548		0.0015	130		5.00E-06	0.0001		0.346		0.0876		33.2		0.0005	7.67		0.0001	41.8	120	5.00E-05		0.0025		1.15	
	3rd Quartile		0.578		0.00638	137.5		5.00E-06	0.0001		0.363		0.0925		34.4		0.0005	7.71		0.0001	46.2	137.5	5.00E-05		0.0025		1.275	
QU1410	Average		0.0391	0.0372	0.00300	0.00291	199.2	0.54	0.0000092	0.000245	1.18	1.026	0.787	0.791	1034	14.4	0.00100	0.00145	6.74	0.000540	0.000176	309	796	0.0000900	0.0353	0.01098		0.720
	Count		3	12	3	12	12	3	12	12	3	12	3	12	3	12	3	12	11	3	12	12	12	3	12		12	
	Minimum		0.0353	0.0284	<0.0060	0.0015	170	0.52	<0.000010	0.00010	1.05	0.724	0.733	0.553	934	10.6	<0.0020	<0.00020	6.63	<0.00040	0.000018	242	620	<0.000080	<0.010	<0.010		<0.50
	Maximum		0.0435	0.0509	<0.0060	0.0034	230	0.58	<0.000020	0.00084	1.24	1.41	0.863	1.06	1120	17.6	<0.0020	0.0024	6.87	0.00122	<0.00040	378	1000	<0.00020	0.087	0.043		0.95
	Geometric Mean		0.0390	0.0364	0.00300	0.00286	197.7	0.54	0.0000089	0.000213	1.17	0.999	0.785	0.773	1031	14.1	0.00100	0.00134	6.74	0.000365	0.000153	306	786	0.0000858	0.0183	0.00821		0.689
	Count <DL		0	0	3	10	0	0	12	10	0	0	0	0	0	0	3	7	0	2	10	0	0	12	1	7		1
	Standard Deviation		0.0041	0.0084	0.00000	0.00046	25.0	0.03	0.0000019	0.000190	0.11	0.250	0.068	0.176	93	2.7	0.00000	0.00061	0.08	0.000589	0.000059	49	131	0.0000234	0.0450	0.01109		0.179
	1st Quartile		0.0369	0.0306	0.003	0.003	177.5	0.53	1.00E-05	0.0002	1.15	0.836	0.748	0.672	992	11.7	0.001	0.001	6.69	0.0002	0.0002	278	687	0.0001	0.0095	0.005		0.672
	Median		0.0386	0.0336	0.006	0.003	200	0.53	1.00E-05	0.0002	1.24	0.962	0.764	0.738	1050	15.5	0.002	0.001	6.75	0.0004	0.0002	298	820	0.0001	0.014	0.005		0.775
	3rd Quartile		0.0411	0.0459	0.003	0.003	222.5	0.55	1.00E-05	0.0002	1.24	1.282	0.814	0.949	1085	16.6	0.001	0.00213	6.79	0.00071	0.0002	364	900	0.0001	0.0505	0.01175		0.812
QU1011D	Average		0.0925		0.00254	260.0		0.00000250	0.000117		0.111		0.0755		130.0		0.00009	7.96		0.000015	1.50	2.1	0.0000200		0.00098		2.4	
	Count		1		1	1		1	1		1		1		1		1	1		1	1	1	1		1		1	
	Minimum		0.0925		0.00254	260		<0.0000050	0.000117		0.111		0.0755		130		0.00009	7.96		0.000015	<3.0	2.1	<0.000040		0.00098		2.4	
	Maximum		0.0925		0.00254	260		<0.0000050	0.000117		0.111		0.0755		130		0.00009	7.96		0.000015	<3.0	2.1	<0.000040		0.00098		2.4	
	Geometric Mean		0.0925		0.00254	260.0		0.00000250	0.000117		0.111		0.0755		130.0		0.00009	7.96		0.000015	1.50	2.1	0.0000200		0.00098		2.4	
	Count <DL		0		0	0		1	0		0		0		0		0	0		0	0	1	0	1		0		0
	Standard Deviation		0.0000		0.00000	0.0		0.00000000	0.000000		0.000		0.0000		0.0		0.00000	0.00		0.000000	0.00	0.0	0.0000000		0.00000		0.0	
	1st Quartile		0.0925		0.00254	260		5.00E-06	0.000117		0.111		0.0755		130		9.00E-05	7.96		1.50E-05	3	2.1	4.00E-05		0.00098		2.4	
	Median		0.0925		0.00254	260		5.00E-06	0.000117		0.111		0.0755		130		9.00E-05	7.96		1.50E-05	3	2.1	4.00E-05		0.00098		2.4	
	3rd Quartile		0.0925		0.00254	260		5.00E-06	0.000117		0.111		0.0755		130		9.00E-05	7.96		1.50E-05	3	2.1	4.00E-05		0.00098		2.4	

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
QU0813A	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU0813B	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1410	Average	0.067
	Count	1
	Minimum	0.067
	Maximum	0.067
	Geometric Mean	0.067
	Count <DL	0
	Standard Deviation	0.000
	1st Quartile	0.067
	Median	0.067
	3rd Quartile	0.067
QU1011D	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	DOC mg/L	N-NO23 mg/L
QU1013D	Average		0.001848		0.00237	514		0.0000086	0.000306		5.514		0.723		397		0.0007399	6.71		0.0001478	311	834	0.0000836		0.00655		0.93	
	Count		11		11	11		11	11		11		11		11		11	11		11	11	11	11		11		11	
	Minimum		<0.00020		<0.0010	470		<0.000010	<0.00010		0.829		0.184		328		<0.000040	6.44		<0.000010	209	520	<0.000080		0.00073		0.67	
	Maximum		0.00506		<0.0060	590		<0.000020	0.00083		7.9		0.967		473		<0.0020	7.19		<0.00040	382	980	<0.00020		0.033		1.2	
	Geometric Mean		0.001246		0.00198	513		0.0000083	0.000238		4.712		0.659		394		0.0003979	6.70		0.0000813	305	819	0.0000779		0.00407		0.92	
	Count <DL		1		10	0		11	7		0		0		0		10	0		10	0	0	11		7		0	
	Standard Deviation		0.001430		0.00109	41		0.0000023	0.000240		2.356		0.253		50		0.0004459	0.20		0.0000894	61	155	0.0000280		0.00894		0.15	
	1st Quartile		0.000665		0.00205	480		7.50E-06	0.0002		4.835		0.697		357		0.0005495	6.61		0.000108	269	755	7.00E-05		0.00335		0.81	
	Median		0.00183		0.006	520		2.00E-05	0.0004		6.24		0.776		400		0.002	6.66		0.0004	336	900	0.0002		0.01		0.94	
	3rd Quartile		0.002405		0.003	525		1.00E-05	0.00032		7.285		0.907		440		0.001	6.75		0.0002	354	935	0.0001		0.005		0.99	
QU1105S	Average	0.0988	0.1013	0.0055	0.00268	345	1.2	0.00000694	0.000151	1.74	1.746	0.197	0.1928	266.0	210.4	0.00050	0.00067	7.20	0.000100	0.00013361	116.4	301	0.0005478	0.00250	0.00339		1.117	
	Count	1	9	1	9	9	1	9	9	1	9	1	9	1	9	1	9	12	1	9	9	9	9	9	1	9		9
	Minimum	0.0988	0.0848	0.0055	0.00085	140	1.2	<0.0000050	0.000053	1.74	0.634	0.197	0.0783	266	63.2	<0.0010	0.00004	6.82	<0.00020	<0.0000050	25.2	73	<0.000040	<0.0050	<0.00010		<0.50	
	Maximum	0.0988	0.134	0.0055	<0.015	490	1.2	<0.000050	<0.0010	1.74	2.34	0.197	0.276	266	324	<0.0010	<0.0050	7.51	<0.00020	<0.0010	188	490	0.00170	<0.0050	<0.025		1.5	
	Geometric Mean	0.0988	0.1006	0.0055	0.00211	314	1.2	0.00000554	0.000121	1.74	1.612	0.197	0.1752	266.0	180.1	0.00050	0.00045	7.20	0.000100	0.00007937	89.9	236	0.0001792	0.00250	0.001936		1.021	
	Count <DL	0	0	0	6	0	0	9	7	0	0	0	0	0	0	1	8	0	1	9	0	0	5	1	9		1	
	Standard Deviation	0.0000	0.0135	0.0000	0.00220	137	0.0	0.00000682	0.000137	0.00	0.623	0.000	0.0802	0.0	102.1	0.00000	0.00070	0.22	0.000000	0.00014113	69.4	176	0.0007094	0.00000	0.003530		0.354	
	1st Quartile	0.0988	0.0959	0.0055	0.003	190	1.2	1.00E-05	0.0002	1.74	1.43	0.197	0.112	266	95.4	0.001	0.001	7.05	0.0002	0.0002	37.3	94	0.0001	0.005	0.005		1.1	
	Median	0.0988	0.1	0.0055	0.003	400	1.2	1.00E-05	0.0002	1.74	2.1	0.197	0.198	266	258	0.001	0.001	7.16	0.0002	0.0002	135	340	0.0001	0.005	0.005		1.2	
	3rd Quartile	0.0988	0.102	0.0055	0.0035	450	1.2	1.00E-05	0.0002	1.74	2.19	0.197	0.265	266	282	0.001	0.001	7.4	0.0002	0.0002	177	440	0.00115	0.005	0.005		1.2	
QU1105D	Average	0.00078	0.011815	0.018	0.00674	289.0	0.43	0.0000168	0.000349	0.153	0.22194	0.157	0.1012	415.0	853	0.00250	0.001505	7.63	0.00050	0.0003012	197	292	0.015982	0.0125	0.008395		0.606	
	Count	1	10	1	10	10	1	10	10	1	10	1	10	1	10	1	10	9	1	10	10	10	10	1	10		10	
	Minimum	0.00078	<0.00050	0.018	<0.0030	260	0.43	<0.000010	<0.00020	0.153	<0.00050	0.157	0.0535	415	290	<0.0050	<0.00010	7.38	<0.0010	<0.000025	101	180	<0.00050	<0.025	<0.00050		<0.50	
	Maximum	0.00078	0.112	0.018	0.0100	330	0.43	<0.000050	<0.0010	0.153	2.13	0.157	0.233	415	983	<0.0050	<0.0050	7.9	<0.0010	<0.0010	308	340	0.0374	<0.025	<0.025		1.4	
	Geometric Mean	0.00078	0.000939	0.018	0.00603	288.3	0.43	0.0000141	0.000286	0.153	0.01475	0.157	0.0923	415.0	816	0.00250	0.000952	7.63	0.00050	0.0001947	187	288	0.007084	0.0125	0.005529		0.521	
	Count <DL	0	2	0	7	0	0	9	9	0	7	0	0	0	0	1	10	0	1	10	0	0	1	1	9		3	
	Standard Deviation	0.00000	0.035205	0.000	0.00252	21.3	0.00	0.0000090	0.000190	0.000	0.67044	0.000	0.0530	0.0	200	0.00000	0.001072	0.14	0.00000	0.0002141	63	45	0.014779	0.0000	0.005159		0.354	
	1st Quartile	0.00078	0.00036	0.018	0.00735	272.5	0.43	1.00E-05	0.000144	0.153	0.01093	0.157	0.0733	415	888	0.005	0.0005	7.57	0.001	0.0001	155	282	0.002943	0.025	0.003125		0.315	
	Median	0.00078	0.00053	0.018	0.0075	285	0.43	1.88E-05	0.000485	0.153	0.0125	0.157	0.0818	415	900	0.005	0.00175	7.64	0.001	0.00035	193	295	0.012635	0.025	0.01185		0.535	
	3rd Quartile	0.00078	0.001055	0.018	0.0075	300	0.43	2.50E-05	0.0005	0.153	0.0125	0.157	0.1004	415	926	0.005	0.0025	7.69	0.001	0.0005	243	320	0.026975	0.025	0.0125		0.77	
QU1109S	Average	0.00251	0.00230	0.0522	0.00266	494.3	1.07	0.00000893	0.000340	13.0	11.27	0.917	0.978	514	382.1	0.00100	0.001970	6.77	0.000200	0.00017179	294	772	0.0001329	0.0050	0.00663		1.23	
	Count	3	7	3	7	7	3	7	7	3	7	3	7	3	7	3	7	6	3	7	7	7	7	7	3	7		7
	Minimum	0.00222	0.00195	0.0148	0.00063	490	0.93	<0.0000050	0.000131	11.3	7.44	0.778	0.394	447	325	<0.0020	0.000091	6.68	<0.00040	<0.0000050	184	520	<0.000040	<0.010	<0.010		0.81	
	Maximum	0.00276	0.00257	0.100	<0.0060	510	1.23	<0.000020	0.00083	14.3	14.1	1.03	1.56	582	419	<0.0020	0.00049	6.94	<0.00040	<0.00040	372	940	0.00041	<0.010	0.014		3.1	
	Geometric Mean	0.00250	0.00229	0.0395	0.00240	494.2	1.07	0.00000820	0.000283	12.9	11.06	0.911	0.903	511	381.1	0.00100	0.001115	6.77	0.000200	0.00010694	288	761	0.0000972	0.0050	0.00612		1.08	
	Count <DL	0	0	0	6	0	0	7	3	0	0	0	0	0	0	3	4	0	3	7	0	0	6	3	5		0	
	Standard Deviation	0.00027	0.00023	0.0436	0.00090	7.9	0.15	0.00000283	0.000242	1.5	2.24	0.128	0.396	67	29.5	0.00000	0.001995	0.10	0.000000	0.00007465	59	135	0.0001258	0.0000	0.00337		0.83	
	1st Quartile	0.00239	0.00213	0.0283	0.003	490	1	1.00E-05	0.0002	12.4	10.07	0.86	0.808	480	376	0.001	0.001	6.71	0.0002	0.0002	282	735	0.0001	0.005	0.005		0.85	
	Median	0.00256	0.00241	0.0417	0.006	490	1.06	2.00E-05	0.0004	13.4	11.9	0.942	0.909	514	383	0.002	0.002	6.74	0.0004	0.0004	294	780	0.0002	0.01	0.01		0.88	
	3rd Quartile	0.00266	0.00																									

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
QU1013D	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1105S	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1105D	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU1109S	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0821GS	Average		0.211		0.00257	196.7		0.0000050	0.000100		0.246		0.0224		102.6		0.00050	7.95		0.000100	1.50	8.67	0.000050		0.00250		0.725	
	Count		3		3	3		3	3		3		3		3		3	3		3	3	3	3	3	3		3	2
	Minimum		0.203		<0.0030	190		<0.000010	<0.00020		0.236		0.0143		98.9		<0.0010	7.85		<0.00020	<3.0	<1.0	<0.00010		<0.0050		<0.50	
	Maximum		0.216		0.0031	200		<0.000010	<0.00020		0.260		0.0300		106		<0.0010	8.09		<0.00020	<3.0	25	<0.00010		<0.0050		1.2	
	Geometric Mean		0.211		0.00243	196.6		0.0000050	0.000100		0.246		0.0214		102.6		0.00050	7.95		0.000100	1.50	1.84	0.000050		0.00250		0.548	
	Count <DL		0		1	0		3	3		0		0		0		3	0		3	3	2	3		3		1	
	Standard Deviation		0.007		0.00092	5.8		0.0000000	0.000000		0.012		0.0079		3.6		0.000000	0.12		0.0000000	0.00	14.15	0.000000		0.00000		0.672	
	1st Quartile		0.209		0.0023	195		5.00E-06	0.0001		0.239		0.0186		101		0.0005	7.88		0.0001	1.5	0.5	5.00E-05		0.0025		0.487	
	Median		0.214		0.0031	200		1.00E-05	0.0002		0.242		0.0229		103		0.001	7.91		0.0002	3	1	0.0001		0.005		0.725	
	3rd Quartile		0.215		0.0031	200		5.00E-06	0.0001		0.251		0.0265		104.5		0.0005	8		0.0001	1.5	12.75	5.00E-05		0.0025		0.962	
QU0821GD	Average		0.178		0.00600	213.3		0.0000200	0.000400		0.618		0.0420		474.0		0.00200	7.31		0.000400	6.00	0.50	0.000200		0.0100		0.445	
	Count		3		3	3		3	3		3		3		3		3	3		3	3	3	3	3	3		3	2
	Minimum		0.175		<0.0060	210		<0.000020	<0.00040		0.552		0.0365		444		<0.0020	6.87		<0.00040	<6.0	<1.0	<0.00020		<0.010		<0.50	
	Maximum		0.182		<0.015	220		<0.000050	<0.0010		0.728		0.0481		523		<0.0050	7.65		<0.0010	<15	<1.0	<0.00050		<0.025		0.64	
	Geometric Mean		0.178		0.00553	213.3		0.0000184	0.000368		0.613		0.0417		472.8		0.00184	7.31		0.000368	5.53	0.50	0.000184		0.0092		0.400	
	Count <DL		0		3	0		3	3		0		0		0		3	0		3	3	3	3	3		3		1
	Standard Deviation		0.004		0.00260	5.8		0.0000087	0.000173		0.096		0.0058		42.8		0.00087	0.40		0.000173	2.60	0.00	0.000087		0.0043		0.276	
	1st Quartile		0.176		0.00525	210		1.75E-05	0.00035		0.563		0.0389		449.5		0.00175	7.14		0.00035	5.25	0.5	0.000175		0.0088		0.348	
	Median		0.178		0.015	210		5.00E-05	0.001		0.574		0.0413		455		0.005	7.42		0.001	15	1	0.0005		0.025		0.445	
	3rd Quartile		0.18		0.0075	215		2.50E-05	0.0005		0.651		0.0447		489		0.0025	7.54		0.0005	7.5	0.5	0.00025		0.0125		0.542	
Seepage (S)	Average		0.01181	0.01065	0.01384	0.00279	446	1.135	0.00000563	0.000179	2.605	1.3376	0.4749	0.4821	331	330	0.00070	0.000655	7.521	0.0001355	0.00008711	202.7	532	0.0000535	0.00340	0.00572	0.015	1.67
	Count		40	40	40	40	36	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	1	31	
	Minimum		0.00360	0.00227	<0.0030	<0.0010	250	0.752	<0.0000050	<0.00020	0.067	0.0176	0.0058	0.0046	94	195	<0.0010	0.000127	6.95	<0.000040	<0.0000050	55.2	170	<0.000040	<0.0020	0.00057	0.015	0.95
	Maximum		0.0291	0.0281	0.0928	0.0126	500	1.80	<0.000020	0.00045	8.27	5.29	1.00	0.952	540	386	0.00101	0.00118	8.1	<0.00040	<0.00040	307	810	<0.00020	<0.010	0.063	0.015	3.4
	Geometric Mean		0.00983	0.00834	0.00848	0.00225	443	1.110	0.00000527	0.000163	1.000	0.3366	0.2941	0.2941	307	327	0.00066	0.000568	7.515	0.0001246	0.00004331	191.8	502	0.0000490	0.00317	0.00349	0.015	1.54
	Count <DL		0	0	5	21	0	0	40	18	0	0	0	0	0	0	39	27	0	40	37	0	0	40	40	23	0	0
	Standard Deviation		0.00709	0.00691	0.01861	0.00213	54	0.248	0.00000217	0.000085	2.835	1.8089	0.3354	0.3358	124	43	0.00025	0.000317	0.288	0.0000521	0.00006744	64.2	175	0.0000235	0.00128	0.00999	0.000	0.69
	1st Quartile		0.00517	0.00383	0.00465	0.0015	430	0.958	5.00E-06	0.0001	0.312	0.098	0.2322	0.232	241	301	0.0005	0.0005	7.25	0.0001	5.60E-06	164.5	430	4.00E-05	0.0025	0.0025	0.015	1
	Median		0.01095	0.0104	0.008	0.0023	470	1.05	5.00E-06	0.000164	1.355	0.15	0.407	0.424	283	332	0.0005	0.0005	7.575	0.0001	0.0001	181.5	460	5.00E-05	0.0025	0.0025	0.015	1.7
	3rd Quartile		0.0152	0.0133	0.0115	0.00302	480	1.268	5.00E-06	0.00021	5.453	2.865	0.8505	0.8485	463	368	0.001	0.001	7.732	0.0002	0.0001	274.2	732	5.00E-05	0.005	0.005	0.015	2.1
Seep Upstream (SUS)	Average		0.0507	0.0482	0.01045	0.00300	431	1.306	0.00000511	0.000128	0.687	0.6505	0.1659	0.1706	237.8	309	0.00054	0.000524	7.25	0.000109	0.00009598	163.4	420	0.001113	0.00515	0.00261		1.8
	Count		23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		19
	Minimum		0.0169	0.0154	<0.0030	<0.0030	290	0.867	<0.0000050	0.000062	0.181	0.0828	0.0251	0.0149	96.5	163	<0.0010	0.000137	7.01	<0.00020	<0.0000050	53.7	160	0.000045	<0.0050	0.00018		1.2
	Maximum		0.103	0.0865	0.0581	0.0083	510	1.71	<0.000020	0.00032	3.07	2.85	0.546	0.638	342	400	<0.0020	0.0010	7.6	<0.00040	<0.00040	218	620	0.0109	0.0584	<0.010		3.1
	Geometric Mean		0.0449	0.0423	0.00664	0.00262	428	1.295	0.00000485	0.000116	0.505	0.4531	0.1303	0.1292	227.4	304	0.00053	0.000478	7.25	0.000106	0.00006565	156.2	402	0.000366	0.00305	0.00233		1.7
	Count <DL		0	0	3	11	0	0	23	17	0	0	0	0	0	0	23	19	0	23	23	0	0	6	22	20		0
	Standard Deviation		0.0231	0.0217	0.01292	0.00172	50	0.170	0.00000176	0.000068	0.643	0.6119	0.1181	0.1330	64.4	52	0.00014	0.000218	0.13	0.000029	0.00004678	43.5	114	0.002273	0.01163	0.00098		0.6
	1st Quartile		0.0275	0.0249	0.00365	0.0015	410	1.205	5.00E-06	0.0001	0.26	0.259	0.0888	0.0864	205	285	0.0005	0.0005	7.17	0.0001	0.0001	144.5	345	0.0001	0.0025	0.0025		1.3
	Median		0.0589	0.0559	0.0052	0.006	440	1.28	1.00E-05	0.0002	0.427	0.342	0.123	0.128	251	309	0.001	0.001	7.22	0.0002	0.0002	169	430	0.0004	0.005	0.005		1.6
	3rd Quartile		0.0633	0.0635	0.01085	0.00362	465	1.395	5.00E-06	0.0001	0.977	0.9685	0.237	0.241	286	337	0.0005	0.0005	7.29	0.0001	0.0001	195.5	505	0.00115	0.0025	0.0025		2.3

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
QU0821GS	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
QU0821GD	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Seepage (S)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Seep Upstream (SUS)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	DOC mg/L	N-NO3 mg/L
Seepage 2A (S2A)	Average	0.04740	0.04593	0.01739	0.00321	384	0.974	0.00000500	0.000125	2.035	1.928	0.3760	0.3905	321.6	240.8	0.00053	0.000477	7.18	0.000105	0.00009250	162.4	420	0.0000539	0.00263	0.00366			1.6
	Count	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38			34
	Minimum	0.00859	0.00773	<0.0030	<0.0030	84	0.166	<0.0000050	0.000065	0.273	0.203	0.0328	0.0326	67.2	33.7	<0.0010	0.000072	6.83	<0.00020	<0.0000050	19.2	55	<0.000040	<0.0050	0.00040			1.1
	Maximum	0.0788	0.0885	0.141	0.016	480	1.36	<0.000020	0.00043	3.81	3.68	0.646	0.650	481	353	<0.0020	<0.0020	7.43	<0.00040	<0.00040	250	700	0.00023	<0.010	0.0162			3.5
	Geometric Mean	0.04516	0.04360	0.00900	0.00246	371	0.937	0.00000473	0.000116	1.780	1.629	0.3257	0.3365	304.3	226.0	0.00052	0.000411	7.18	0.000104	0.00005899	147.8	386	0.0000476	0.00259	0.00278			1.5
	Count <DL	0	0	3	20	0	0	38	29	0	0	0	0	0	0	38	32	0	38	38	0	0	37	38	30			0
	Standard Deviation	0.01245	0.01256	0.02779	0.00315	79	0.214	0.00000174	0.000063	0.910	0.961	0.1764	0.1858	95.6	69.5	0.00011	0.000213	0.16	0.000023	0.00004790	59.4	151	0.0000348	0.00057	0.00353			0.5
	1st Quartile	0.04238	0.0419	0.0045	0.0015	340	0.874	5.00E-06	0.0001	1.652	1.34	0.2185	0.2255	250.2	200	0.0005	0.0005	7.1	0.0001	0.0001	125.2	325	5.00E-05	0.0025	0.0025			1.3
	Median	0.0492	0.0484	0.00625	0.00186	405	0.959	5.00E-06	0.0001	1.975	1.845	0.337	0.361	321.5	244	0.0005	0.0005	7.2	0.0001	0.0001	157.5	400	5.00E-05	0.0025	0.0025			1.4
	3rd Quartile	0.0517	0.0519	0.01507	0.0036	440	1.12	5.00E-06	0.000113	2.782	2.73	0.5418	0.5665	403	294.2	0.0005	0.0005	7.32	0.0001	0.0001	222.8	545	5.00E-05	0.0025	0.0025			1.6
Seepage 2B (S2B)	Average	0.0394	0.0337	0.00748	0.00179	386	0.929	0.00000486	0.000114	1.793	1.528	0.320	0.325	351	230	0.00051	0.000461	7.31	0.000103	0.00009319	165.3	434	0.0000541	0.00257	0.00267			1.5
	Count	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37			33
	Minimum	0.0205	0.0168	<0.0030	0.00146	270	0.628	<0.0000050	0.000076	0.428	0.178	0.123	0.126	184	109	<0.0010	0.000053	6.8	<0.00020	<0.0000050	61.9	210	<0.000040	<0.0050	0.00052			1.1
	Maximum	0.101	0.0459	0.0472	0.0048	450	1.24	<0.000020	0.00029	3.47	2.98	0.590	0.553	497	325	<0.0020	<0.0020	7.71	<0.00040	0.00023	246	700	0.00017	<0.010	0.00508			3.6
	Geometric Mean	0.0373	0.0320	0.00510	0.00170	383	0.916	0.00000464	0.000109	1.570	1.218	0.289	0.294	340	223	0.00051	0.000389	7.31	0.000102	0.00005969	155.8	411	0.0000477	0.00255	0.00250			1.5
	Count <DL	0	0	7	29	0	0	37	29	0	0	0	0	0	0	37	31	0	37	35	0	0	35	37	31			0
	Standard Deviation	0.0142	0.0101	0.00910	0.00071	50	0.153	0.00000155	0.000044	0.856	0.873	0.140	0.142	89	55	0.00008	0.000201	0.19	0.000016	0.00005045	54.3	140	0.0000318	0.00041	0.00092			0.5
	1st Quartile	0.0298	0.0259	0.0037	0.003	350	0.817	1.00E-05	0.0002	1.26	1.1	0.194	0.19	281	192	0.001	0.001	7.21	0.0002	0.0002	125	320	0.0001	0.005	0.005			1.3
	Median	0.041	0.0337	0.0046	0.003	400	0.923	1.00E-05	0.0002	1.64	1.35	0.277	0.279	344	232	0.001	0.001	7.35	0.0002	0.0002	156	410	0.0001	0.005	0.005			1.4
	3rd Quartile	0.0467	0.044	0.0081	0.003	430	1.06	1.00E-05	0.0002	2.44	2.24	0.459	0.462	444	279	0.001	0.001	7.43	0.0002	0.0002	222	560	0.0001	0.005	0.005			1.5
Seep 2 Upstream (S2US)	Average	0.0712	0.0707	0.02029	0.00196	420	1.077	0.00000516	0.0001096	3.66	3.634	0.276	0.279	352	264.4	0.00053	0.000490	7.09	0.000106	0.00009443	179.0	469	0.0000528	0.00290	0.00290			1.34
	Count	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32			28
	Minimum	0.0349	0.0316	<0.0030	0.00132	280	0.607	<0.0000050	<0.000050	0.91	0.793	0.117	0.12	206	90.2	<0.0010	0.000067	6.71	<0.00020	<0.0000050	46	160	<0.000040	<0.0050	0.00046			0.91
	Maximum	0.103	0.0876	0.264	0.005	470	1.43	<0.000020	<0.00040	5.83	5.82	0.415	0.437	479	372	<0.0020	<0.0020	7.7	<0.00040	<0.00040	262	720	0.00012	0.0073	0.0113			2.4
	Geometric Mean	0.0702	0.0698	0.00987	0.00182	417	1.061	0.00000479	0.0001032	3.41	3.369	0.262	0.266	342	256.4	0.00052	0.000411	7.08	0.000104	0.00005764	169.7	447	0.0000472	0.00277	0.00242			1.32
	Count <DL	0	0	2	24	0	0	32	27	0	0	0	0	0	0	32	26	0	32	30	0	0	31	30	25			0
	Standard Deviation	0.0115	0.0102	0.04671	0.00093	47	0.181	0.00000210	0.0000386	1.27	1.286	0.087	0.087	79	58.7	0.00012	0.000247	0.18	0.000025	0.00005528	52.5	140	0.0000254	0.00114	0.00196			0.30
	1st Quartile	0.0676	0.0672	0.00613	0.0015	397	0.952	5.00E-06	0.0001	2.76	2.688	0.215	0.215	299	231.8	0.0005	0.0005	6.98	0.0001	0.0001	141	367	5.00E-05	0.0025	0.0025			1.2
	Median	0.0715	0.0732	0.0092	0.0015	430	1.075	5.00E-06	0.0001	3.44	3.36	0.262	0.252	346	260.5	0.0005	0.0005	7.1	0.0001	0.0001	170.5	440	5.00E-05	0.0025	0.0025			1.3
	3rd Quartile	0.0756	0.076	0.01215	0.00179	460	1.182	5.00E-06	0.0001	4.96	4.762	0.35	0.361	429	304	0.0005	0.0005	7.17	0.0001	0.0001	227.5	602	5.00E-05	0.0025	0.0025			1.42

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Seepage 2A (S2A)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Seepage 2B (S2B)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Seep 2 Upstream (S2US)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	B-T	Cd-D	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Na-D	Ni-T	Ni-D	pH-F	Pb-T	Pb-D	S-D	SO4-D	Se-D	Zn-T	Zn-D	P-T	DOC	N-NO23	
		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	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Quinsam River Upstream (QRUS)	Average	0.000170	0.000167	0.0308	0.0213	28.3	0.0242	0.00000275	0.000566	0.0399	0.0219	0.00399	0.00199	28.4	5.55	0.000161	0.000118	7.20	0.00004039	0.00001367	4.70	14.8	0.0000487	0.000554	0.00121	0.00737	2.408	0.0100	
	Count	30	30	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	28	30	30	30	30	30	30	30	3	30	1
	Minimum	0.00010	0.000117	0.0138	0.0076	22	0.011	<0.0000050	0.00044	0.0284	0.0155	0.00101	0.0012	21.8	1.99	0.000049	0.00005	6.46	<0.0000050	<0.0000050	<3.0	6	<0.000040	<0.00010	0.00026	<0.0050	<0.50	<0.020	
	Maximum	0.000293	0.00023	0.0485	0.0305	44	0.06	<0.000010	0.000693	0.0844	0.0325	0.0104	0.00352	38.4	17.2	<0.0010	<0.0010	7.85	0.000603	<0.00020	13.1	39	0.000077	<0.0050	0.0072	0.014	3	<0.020	
	Geometric Mean	0.000165	0.000164	0.0295	0.0204	28.0	0.0226	0.00000268	0.000563	0.0387	0.0215	0.00367	0.00193	28.2	4.89	0.000110	0.000085	7.19	0.00000741	0.00000454	4.14	13.6	0.0000468	0.000208	0.00087	0.00581	2.284	0.0100	
	Count <DL	0	0	0	0	0	4	30	0	0	0	0	0	0	0	5	3	0	23	24	5	0	6	13	2	1	1	1	
	Standard Deviation	0.000041	0.000031	0.0085	0.0054	4.6	0.0097	0.00000076	0.000057	0.0114	0.0044	0.00179	0.00055	3.8	3.13	0.000172	0.000136	0.41	0.00011227	0.00002961	2.33	6.6	0.0000119	0.000895	0.00133	0.00595	0.503	0.0000	
	1st Quartile	0.000143	0.000139	0.0272	0.0202	25	0.018	2.50E-06	0.000521	0.0332	0.0184	0.00312	0.0017	25.9	3.48	6.60E-05	5.80E-05	6.87	2.50E-06	2.50E-06	3.75	11	4.60E-05	0.0001	0.00056	0.00405	2.25	0.02	
	Median	0.00017	0.000169	0.0307	0.0221	28	0.023	2.50E-06	0.000559	0.0364	0.0211	0.00361	0.00186	27.8	4.78	7.80E-05	6.50E-05	7.08	2.50E-06	2.50E-06	4.6	13.5	5.00E-05	0.00014	0.00078	0.0056	2.45	0.02	
	3rd Quartile	0.000187	0.000186	0.0342	0.024	31	0.028	2.50E-06	0.000593	0.0416	0.0247	0.00458	0.00211	30.8	6.85	0.000108	8.20E-05	7.63	9.90E-06	5.38E-06	5.7	18	5.50E-05	0.000428	0.00116	0.0098	2.675	0.02	
Quinsam River Downstream (QRDS)	Average	0.000269	0.000225	0.0319	0.0204	44.7	0.0597	0.00000297	0.000545	0.1796	0.0460	0.03078	0.02860	45.0	17.99	0.000229	0.000203	7.32	0.00002829	0.00002098	13.7	40.7	0.0000484	0.000904	0.001168	0.00417	2.6	0.0100	
	Count	53	53	53	53	45	53	53	53	53	53	53	53	53	53	53	53	51	53	53	53	50	53	53	53	7	45	1	
	Minimum	0.000168	0.000117	0.0119	0.0074	29	0.024	<0.0000050	0.00036	0.038	0.0183	0.00764	0.0013	29.8	6.5	<0.00010	0.000055	6.3	<0.0000050	<0.0000050	3.5	16	<0.000040	<0.00010	<0.00010	<0.0030	2.1	<0.020	
	Maximum	0.00071	0.000538	0.067	0.0298	79	0.152	0.000005	0.000664	0.644	0.162	0.114	0.106	92.9	50.2	<0.0010	<0.0010	8.06	<0.00020	<0.00020	41.8	97	0.000067	0.00468	0.00355	0.0081	4	<0.020	
	Geometric Mean	0.000258	0.000214	0.0302	0.0198	43.5	0.0548	0.00000285	0.000542	0.1481	0.0392	0.02580	0.02330	43.8	16.50	0.000182	0.000160	7.31	0.00001023	0.00000571	12.6	38.2	0.0000470	0.000411	0.000822	0.00362	2.6	0.0100	
	Count <DL	0	0	0	0	0	3	52	0	0	0	0	0	0	0	12	9	0	32	46	0	0	13	20	10	3	0	1	
	Standard Deviation	0.000094	0.000088	0.0111	0.0045	11.0	0.0264	0.00000099	0.000054	0.1237	0.0337	0.01994	0.01858	11.6	8.30	0.000160	0.000153	0.43	0.00003837	0.00003713	6.5	15.3	0.0000097	0.001089	0.000923	0.00234	0.4	0.0000	
	1st Quartile	0.000218	0.000179	0.025	0.018	37	0.043	5.00E-06	0.00051	0.0951	0.027	0.0178	0.0174	37.7	12.2	0.000106	9.50E-05	6.99	5.00E-06	5.00E-06	9.7	29.2	4.60E-05	0.00018	0.00045	0.0025	2.4	0.02	
	Median	0.000246	0.000198	0.029	0.0211	42	0.055	5.00E-06	0.00056	0.159	0.0347	0.0279	0.0261	41.9	16.7	0.00015	0.000137	7.52	5.50E-06	5.00E-06	12.3	38	0.0001	0.00033	0.00072	0.0035	2.6	0.02	
	3rd Quartile	0.000291	0.000235	0.0366	0.0233	50	0.069	5.00E-06	0.000579	0.229	0.0484	0.039	0.0356	48.5	20.3	0.000324	0.000222	7.62	3.75E-05	7.00E-06	15.5	48	5.30E-05	0.0016	0.00179	0.00555	2.7	0.02	
Quinsam River Downstream Site A (QRDSA)	Average	0.000270	0.000249	0.0339	0.02236	41.0	0.0525	0.00000285	0.000570	0.1295	0.0485	0.02355	0.02280	40.2	15.41	0.000195	0.000180	7.17	0.00001956	0.00000929	11.3	33.9	0.0000474	0.000586	0.002078	0.00416	2.6		
	Count	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	38	39	39	39	39	39	39	39	5	39		
	Minimum	0.000146	0.000121	0.0167	0.00994	27	<0.050	<0.0000050	0.000477	0.0304	0.0207	0.00719	0.00853	27.5	6.17	0.000084	0.000076	6.38	<0.0000050	<0.0000050	5	17	<0.000040	<0.00010	<0.00010	<0.0050	1.6		
	Maximum	0.00058	0.00064	0.0726	0.0308	69	0.121	0.000011	0.000726	0.233	0.208	0.0645	0.0619	70.7	37.9	<0.0010	0.000687	7.84	<0.00020	<0.00020	25.5	69	0.000073	0.0036	0.0268	0.0074	3		
	Geometric Mean	0.000253	0.000228	0.0321	0.02179	40.2	0.0493	0.00000269	0.000567	0.1206	0.0398	0.02195	0.02071	39.6	14.34	0.000168	0.000147	7.15	0.00000739	0.00000403	10.7	32.2	0.0000449	0.000267	0.001170	0.00376	2.5		
	Count <DL	0	0	0	0	0	1	38	0	0	0	0	0	0	0	4	2	0	21	29	0	0	8	12	2	2	0		
	Standard Deviation	0.000108	0.000122	0.0114	0.00459	8.2	0.0192	0.00000145	0.000064	0.0470	0.0404	0.00970	0.01088	7.8	6.11	0.000127	0.000140	0.49	0.00003191	0.00002200	4.0	11.2	0.0000132	0.000878	0.004234	0.00217	0.3		
	1st Quartile	0.000201	0.000173	0.0268	0.0207	35.5	0.0395	2.50E-06	0.000528	0.105	0.027	0.0183	0.0163	35.4	11.15	0.000115	9.10E-05	6.68	2.50E-06	2.50E-06	8.7	26	4.50E-05	0.000125	0.00073	0.005	2.3		
	Median	0.000228	0.000201	0.0323	0.023	41	0.053	5.00E-06	0.000566	0.115	0.0331	0.0219	0.0204	39.4	15.6	0.00015	0.000134	7.12	5.00E-06	5.00E-06	11	33	5.00E-05	0.00019	0.00112	0.003	2.6		
	3rd Quartile	0.000298	0.000286	0.0399	0.0248	45.5	0.0625	2.50E-06	0.000603	0.1465	0.0411	0.02725	0.0256	44.3	17.5	0.000206	0.000198	7.62	1.08E-05	5.35E-06	13.3	39	5.65E-05	0.0005	0.001645	0.0054	2.8		
Quinsam River Downstream Site B (QRDSB)	Average	0.000356	0.000311	0.0316	0.0207	34.1	0.039	0.00000281	0.000626	0.0915	0.0378	0.01384	0.01224	34.5	10.03	0.000145	0.000115	7.43	0.00001308	0.00000714	7.8	23.7	0.0000521	0.000482	0.001141	0.00320	2.548		
	Count	50	50	50	50	48	50	50	50	50	50	50	50	50	50	50	50	49	50	50	50	48</							

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
Quinsam River Upstream (QRUS)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Quinsam River Downstream (QRDS)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Quinsam River Downstream Site A (QRDSA)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	
Quinsam River Downstream Site B (QRDSB)	Average	
	Count	
	Minimum	
	Maximum	
	Geometric Mean	
	Count <DL	
	Standard Deviation	
	1st Quartile	
	Median	
	3rd Quartile	

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	B-T mg/L	Cd-D mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Na-D mg/L	Ni-T mg/L	Ni-D mg/L	pH-F pH Units	Pb-T mg/L	Pb-D mg/L	S-D mg/L	SO4-D mg/L	Se-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	DOC mg/L	N-NO23 mg/L
River Barrier Pillar Borehole (RBP1)	Average	0.00234	0.00235	0.00360	0.00228	487.3	0.992	0.00000758	0.000222	7.38	7.52	0.792	0.815	456	358	0.00163	0.00166	6.76	0.0001453	0.00015086	264	687	0.000173	0.00468	0.00487			
	Count	62	61	62	61	48	62	61	61	62	61	62	61	62	61	62	61	62	62	61	61	57	60	62	61			
	Minimum	0.00175	0.00181	<0.0030	0.00085	460	0.811	<0.0000050	<0.00020	2.32	2.33	0.62	0.63	367	286	<0.0010	<0.0010	6.47	0.0000083	<0.0000050	201	530	<0.00010	<0.0050	<0.0050			
	Maximum	0.00432	0.00391	0.0222	<0.0060	540	1.46	<0.000020	0.00118	16.8	16.4	1.02	1.04	569	437	0.0039	0.0042	7.09	<0.00040	<0.00040	325	860	0.00115	0.023	0.017			
	Geometric Mean	0.00227	0.00228	0.00293	0.00214	487.0	0.984	0.00000711	0.000190	6.14	6.25	0.784	0.805	453	356	0.00143	0.00147	6.76	0.0001329	0.00013541	261	682	0.000100	0.00395	0.00438			
	Count <DL	0	0	43	60	0	0	61	45	0	0	0	0	0	0	32	32	0	61	61	0	0	50	54	48			
	Standard Deviation	0.00065	0.00065	0.00321	0.00077	18.4	0.131	0.00000258	0.000187	4.56	4.65	0.116	0.127	56	39	0.00087	0.00087	0.12	0.0000530	0.00005350	34	82	0.000269	0.00380	0.00269			
	1st Quartile	0.00195	0.00196	0.0015	0.003	470	0.89	1.00E-05	0.0004	3.39	3.4	0.689	0.714	409	321	0.001	0.002	6.68	0.0001	0.0002	235	620	5.00E-05	0.0025	0.005			
	Median	0.00209	0.00203	0.003	0.006	485	0.989	2.00E-05	0.0004	5.67	5.65	0.766	0.756	459	375	0.001	0.002	6.74	0.0001	0.0004	272	690	0.0001	0.005	0.01			
	3rd Quartile	0.00234	0.00242	0.00317	0.006	500	1.06	2.00E-05	0.0004	9.64	10.1	0.887	0.935	494	384	0.00228	0.0023	6.81	0.0002	0.0004	289	750	0.0001	0.005	0.01			
River Barrier Pillar Outlet (RBPO)	Average	0.00162	0.00089	0.02097	0.00282	472.4	1.013	0.0000091	0.000163	3.56	0.4675	0.716	0.724	452	347	0.00148	0.00151	7.16	0.000144	0.000148	259	682	0.000074	0.00361	0.00370			
	Count	54	54	54	54	37	54	54	54	54	54	54	54	54	54	54	54	55	54	54	54	49	54	54	54			
	Minimum	0.00079	0.0003	<0.0030	<0.0030	430	0.807	<0.000010	<0.00020	1.31	<0.010	0.493	0.536	359	273	<0.0010	<0.0010	6.57	<0.00020	<0.00020	204	530	<0.00010	<0.0050	<0.0050			
	Maximum	0.00419	0.00172	0.132	0.0333	510	1.51	0.000062	0.00084	19.1	5.57	1.01	0.985	583	419	0.0036	0.0033	7.55	<0.00040	<0.00040	307	830	<0.00020	<0.010	<0.010			
	Geometric Mean	0.00155	0.00081	0.01304	0.00223	472.2	1.005	0.0000076	0.000146	3.05	0.2568	0.704	0.714	448	345	0.00130	0.00136	7.16	0.000136	0.000140	257	677	0.000070	0.00340	0.00349			
	Count <DL	0	0	3	52	0	0	51	52	0	1	0	0	0	0	29	28	0	54	54	0	0	54	54	54			
	Standard Deviation	0.00053	0.00039	0.02537	0.00429	16.6	0.134	0.0000088	0.000107	2.66	0.7484	0.132	0.126	59	33	0.00080	0.00072	0.21	0.000050	0.000050	30	78	0.000025	0.00125	0.00126			
	1st Quartile	0.00139	0.00057	0.00682	0.0015	460	0.907	5.00E-06	0.0001	2.12	0.1418	0.605	0.621	400	312	0.001	0.001	7.09	0.0001	0.0001	239	630	5.00E-05	0.0025	0.0025			
	Median	0.00161	0.0008	0.0139	0.00225	470	1.014	7.50E-06	0.00015	2.79	0.417	0.704	0.688	442	356	0.001	0.001	7.22	0.0001	0.0001	261	660	5.00E-05	0.0025	0.0025			
	3rd Quartile	0.00188	0.00121	0.0244	0.003	480	1.088	1.00E-05	0.0002	4.18	0.5713	0.802	0.822	497	368	0.0019	0.002	7.29	0.0002	0.0002	286	750	0.0001	0.005	0.005			

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Table 53 Statistics 2024 to 2025 28 Page(s)

2025 - 2026	Statistic	N-NH3
		mg/L
River Barrier Pillar Borehole (RBP1)	Average	0.935
	Count	31
	Minimum	<0.50
	Maximum	1.5
	Geometric Mean	0.907
	Count <DL	1
	Standard Deviation	0.199
	1st Quartile	0.85
	Median	0.93
	3rd Quartile	1
River Barrier Pillar Outlet (RBPO)	Average	0.94
	Count	10
	Minimum	0.78
	Maximum	1.1
	Geometric Mean	0.94
	Count <DL	0
	Standard Deviation	0.11
	1st Quartile	0.87
	Median	0.94
	3rd Quartile	0.99

Notes:
Factor applied to less-than results when calculating statistics: 0.5
Replicate samples are not included when calculating statistics

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
242MW	242MW-13AUG25-R	2025-08-13	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Ba-D	mg/L	0.0774	0.0792	0.001	0.001	2.3%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Mg-D	mg/L	3.13	3.14	0.05	0.05	0.3%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Li-D	mg/L	0.0062	0.0062	0.002	0.002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Fe-D	mg/L	11.4	11.3	0.005	0.005	0.9%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	F-D	mg/L	<0.050	0.074	0.05	0.05		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Co-D	mg/L	0.0003	0.0003	0.0002	0.0002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Cl-D	mg/L	48	<1.0	1	1	191.8%	TRUE
242MW	242MW-13AUG25-R	2025-08-13	Ca-D	mg/L	39	38.4	0.05	0.05	1.6%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
242MW	242MW-13AUG25-R	2025-08-13	B-D	mg/L	0.056	0.056	0.05	0.05		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Bicarb	mg/L	120	120	1	1	0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	SO4-D	mg/L	<1.0	25	1	1	184.6%	TRUE
242MW	242MW-13AUG25-R	2025-08-13	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
242MW	242MW-13AUG25-R	2025-08-13	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
242MW	242MW-13AUG25-R	2025-08-13	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Turb	NTU	85	79	0.1	0.1	7.3%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Mn-D	mg/L	0.397	0.393	0.001	0.001	1.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	S2-T	mg/L	0.0086	0.0048	0.0018	0.0018		FALSE
242MW	242MW-13AUG25-R	2025-08-13	As-D	mg/L	0.117	0.117	0.0001	0.0001	0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Sr-D	mg/L	0.0607	0.0623	0.001	0.001	2.6%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Na-D	mg/L	2.29	2.32	0.05	0.05	1.3%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Si-D	mg/L	3.48	3.43	0.1	0.1	1.4%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	K-D	mg/L	0.375	0.375	0.05	0.05	0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	pH-L	pH Units	7.47	7.48			0.1%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	ORP-F	mV	44.5	44.5			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	H2S	mg/L	0.0091	0.0051	0.002	0.002		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
242MW	242MW-13AUG25-R	2025-08-13	DOC	mg/L	0.58	0.93	0.5	0.5		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Hard-D	mg/L	110	109	0.5	0.5	0.9%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Carb	mg/L	<1.0	<1.0	1	1		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Acidity83	mg/L	3.4	3.4	1	1		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
242MW	242MW-13AUG25-R	2025-08-13	Temp-F	C	10.5	10.5			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Wlevel	m	22.73	22.73			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	pH-F	pH Units	6.57	6.57			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Cond-F	uS/cm	262.3	262.3			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	DO-F	mg/L	0.42	0.42			0.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	Alk-T	mg/L	95	96	1	1	1.0%	FALSE
242MW	242MW-13AUG25-R	2025-08-13	S-D	mg/L	8.5	8.1	3	3		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Mo-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Acidity83	mg/L	4.4	3.3	1.0	1.0		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Si-D	mg/L	1.88	1.81	0.20	0.20	3.8%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Se-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Se-D	mg/L	0.00036	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	K-T	mg/L	4.15	4.44	0.10	0.10	6.8%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	K-D	mg/L	4.54	4.33	0.10	0.10	4.7%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	pH-L	pH Units	8.10	8.13			0.4%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ag-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ni-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ag-T	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Mo-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
2NPS	2NPS-5AUG25-R	2025-08-05	Mn-T	mg/L	0.0057	0.0064	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Mn-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Mg-T	mg/L	39.3	42.2	0.10	0.10	7.1%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Mg-D	mg/L	40.4	39.8	0.10	0.10	1.5%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Hard-D	mg/L	1040	1020	0.50	0.50	1.9%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ni-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sn-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Li-T	mg/L	0.0138	0.0154	0.0040	0.0040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	U-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	U-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	V-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	V-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Zn-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Zn-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Si-T	mg/L	1.74	1.84	0.20	0.20	5.6%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sn-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ti-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ti-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	SO4-D	mg/L	1100	1100	10	10	0.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sr-T	mg/L	2.83	2.96	0.0020	0.0020	4.5%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sr-D	mg/L	2.61	2.79	0.0020	0.0020	6.7%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Na-T	mg/L	185	198	0.10	0.10	6.8%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Na-D	mg/L	196	194	0.10	0.10	1.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ti-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ti-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Co-T	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	B-T	mg/L	0.84	0.94	0.10	0.10	11.2%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	B-D	mg/L	0.87	0.91	0.10	0.10	4.5%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cd-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cd-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ca-D	mg/L	350	341	0.10	0.10	2.6%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ca-T	mg/L	335	354	0.10	0.10	5.5%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cr-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Bi-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Co-D	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Bicarb	mg/L	330	340	1.0	1.0	3.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cu-D	mg/L	0.00045	0.00046	0.00040	0.00040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cu-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Hard-T	mg/L	999	1060	0.50	0.50	5.9%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Fe-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Fe-T	mg/L	0.031	0.043	0.020	0.020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Pb-D	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Pb-T	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Li-D	mg/L	0.0141	0.0139	0.0040	0.0040		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cr-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Al-T	mg/L	0.0079	0.0111	0.0060	0.0060		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	S-D	mg/L	402	401	6.0	6.0	0.2%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	S-T	mg/L	400	422	6.0	6.0	5.4%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Zr-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Zr-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Temp-F	C	20.8	20.8			0.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	pH-F	pH Units	7.72	7.72			0.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Cond-F	uS/cm	2340	2340			0.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Bi-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Al-D	mg/L	<0.0060	<0.0060	0.0060	0.0060		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sb-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Sb-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	As-D	mg/L	0.00028	0.00023	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	As-T	mg/L	0.00024	0.00028	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ba-D	mg/L	0.0137	0.0137	0.0020	0.0020	0.0%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Ba-T	mg/L	0.0130	0.0143	0.0020	0.0020	9.5%	FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Be-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Be-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2NPS	2NPS-5AUG25-R	2025-08-05	Alk-T	mg/L	270	280	1.0	1.0	3.6%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
2S	2S-2SEP25-R	2025-09-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2S	2S-2SEP25-R	2025-09-02	Acidity83	mg/L	1.2	1.2	1.0	1.0		FALSE
2S	2S-2SEP25-R	2025-09-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2S	2S-2SEP25-R	2025-09-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2S	2S-2SEP25-R	2025-09-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
2S	2S-2SEP25-R	2025-09-02	Hard-D	mg/L	365	364	0.50	0.50	0.3%	FALSE
2S	2S-2SEP25-R	2025-09-02	S-D	mg/L	163	160	3.0	3.0	1.9%	FALSE
2S	2S-2SEP25-R	2025-09-02	SG	m	1.36	1.36			0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	pH-F	pH Units	7.99	7.99			0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
2S	2S-2SEP25-R	2025-09-02	S-T	mg/L	153	142	3.0	3.0	7.5%	FALSE
2S	2S-2SEP25-R	2025-09-02	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Al-T	mg/L	<0.0030	0.0083	0.0030	0.0030		FALSE
2S	2S-2SEP25-R	2025-09-02	Wlevel	m	0.36	0.36			0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Cond-F	uS/cm	1042	1042			0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Alk-T	mg/L	92	93	1.0	1.0	1.1%	FALSE
2S	2S-2SEP25-R	2025-09-02	Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
2S	2S-2SEP25-R	2025-09-02	As-T	mg/L	0.00106	0.00101	0.00010	0.00010	4.8%	FALSE
2S	2S-2SEP25-R	2025-09-02	As-D	mg/L	0.00105	0.00104	0.00010	0.00010	1.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Temp-F	C	22.4	22.4			0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Li-T	mg/L	0.0128	0.0118	0.0020	0.0020	8.1%	FALSE
2S	2S-2SEP25-R	2025-09-02	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Si-D	mg/L	3.37	3.42	0.10	0.10	1.5%	FALSE
2S	2S-2SEP25-R	2025-09-02	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	K-D	mg/L	1.58	1.57	0.050	0.050	0.6%	FALSE
2S	2S-2SEP25-R	2025-09-02	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
2S	2S-2SEP25-R	2025-09-02	Mn-D	mg/L	0.0235	0.0237	0.0010	0.0010	0.8%	FALSE
2S	2S-2SEP25-R	2025-09-02	Mg-D	mg/L	16.1	16.1	0.050	0.050	0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	K-T	mg/L	1.56	1.45	0.050	0.050	7.3%	FALSE
2S	2S-2SEP25-R	2025-09-02	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
2S	2S-2SEP25-R	2025-09-02	Si-T	mg/L	3.17	2.92	0.10	0.10	8.2%	FALSE
2S	2S-2SEP25-R	2025-09-02	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2S	2S-2SEP25-R	2025-09-02	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
2S	2S-2SEP25-R	2025-09-02	Na-D	mg/L	102	104	0.050	0.050	1.9%	FALSE
2S	2S-2SEP25-R	2025-09-02	Na-T	mg/L	92.9	85.4	0.050	0.050	8.4%	FALSE
2S	2S-2SEP25-R	2025-09-02	Sr-D	mg/L	1.59	1.57	0.0010	0.0010	1.3%	FALSE
2S	2S-2SEP25-R	2025-09-02	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	SO4-D	mg/L	420	420	5.0	5.0	0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Mg-T	mg/L	14.2	13.2	0.050	0.050	7.3%	FALSE
2S	2S-2SEP25-R	2025-09-02	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
2S	2S-2SEP25-R	2025-09-02	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Sr-T	mg/L	1.50	1.41	0.0010	0.0010	6.2%	FALSE
2S	2S-2SEP25-R	2025-09-02	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	B-T	mg/L	0.680	0.643	0.050	0.050	5.6%	FALSE
2S	2S-2SEP25-R	2025-09-02	B-D	mg/L	0.704	0.690	0.050	0.050	2.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
2S	2S-2SEP25-R	2025-09-02	Mn-T	mg/L	0.0279	0.0368	0.0010	0.0010	27.5%	TRUE
2S	2S-2SEP25-R	2025-09-02	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Li-D	mg/L	0.0123	0.0126	0.0020	0.0020	2.4%	FALSE
2S	2S-2SEP25-R	2025-09-02	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
2S	2S-2SEP25-R	2025-09-02	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
2S	2S-2SEP25-R	2025-09-02	Ba-T	mg/L	0.0138	0.0129	0.0010	0.0010	6.7%	FALSE
2S	2S-2SEP25-R	2025-09-02	Ca-D	mg/L	120	119	0.050	0.050	0.8%	FALSE
2S	2S-2SEP25-R	2025-09-02	Ca-T	mg/L	112	103	0.050	0.050	8.4%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
2S	2S-2SEP25-R	2025-09-02	Ba-D	mg/L	0.0140	0.0138	0.0010	0.0010	1.4%	FALSE
2S	2S-2SEP25-R	2025-09-02	Bicarb	mg/L	110	110	1.0	1.0	0.0%	FALSE
2S	2S-2SEP25-R	2025-09-02	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2S	2S-2SEP25-R	2025-09-02	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Fe-T	mg/L	0.035	0.065	0.010	0.010	60.0%	TRUE
2S	2S-2SEP25-R	2025-09-02	Fe-D	mg/L	0.0247	0.0250	0.0050	0.0050		FALSE
2S	2S-2SEP25-R	2025-09-02	Hard-T	mg/L	338	311	0.50	0.50	8.3%	FALSE
2S	2S-2SEP25-R	2025-09-02	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
2S	2S-2SEP25-R	2025-09-02	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2S	2S-2SEP25-R	2025-09-02	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2S	2S-2SEP25-R	2025-09-02	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2S	2S-2SEP25-R	2025-09-02	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
2S	2S-2SEP25-R	2025-09-02	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
2SI	2SI-12JAN26-R	2026-01-12	Wlevel	m	0.19	0.19			0.0%	FALSE
2SI	2SI-12JAN26-R	2026-01-12	Cond-F	uS/cm	427	427			0.0%	FALSE
2SI	2SI-12JAN26-R	2026-01-12	Flow	m3/s	0.025240385	0.025240385			0.0%	FALSE
2SI	2SI-12JAN26-R	2026-01-12	Temp-F	C	6.6	6.6			0.0%	FALSE
2SI	2SI-12JAN26-R	2026-01-12	SG	m	0.24	0.24			0.0%	FALSE
2SI	2SI-12JAN26-R	2026-01-12	pH-F	pH Units	7.41	7.41			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	Temp-F	C	7.2	7.2			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	SG	m	0.23	0.23			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	Cond-F	uS/cm	443	443			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	pH-F	pH Units	7.18	7.18			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	Flow	m3/s	0.026184539	0.026184539			0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	SO4-D	mg/L	150	150	5	5	0.0%	FALSE
2SI	2SI-15DEC25-R	2025-12-15	Wlevel	m	0.19	0.19			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	SG	m	0.15	0.15			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	S2-T	mg/L	0.0045	0.0041	0.0018	0.0018		FALSE
2SI	2SI-17NOV25-R	2025-11-17	SO4-D	mg/L	210	210	5	5	0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	Cond-F	uS/cm	624	624			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	pH-F	pH Units	7.6	7.6			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	Flow	m3/s	0.00735	0.00735			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	Wlevel	m	0.11	0.11			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	Temp-F	C	7.4	7.4			0.0%	FALSE
2SI	2SI-17NOV25-R	2025-11-17	H2S	mg/L	0.0048	0.0043	0.002	0.002		FALSE
2SI	2SI-25AUG25-R	2025-08-25	H2S	mg/L	0.0051	0.0078	0.0020	0.0020		FALSE
2SI	2SI-25AUG25-R	2025-08-25	Temp-F	C	14.5	14.5			0.0%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	Wlevel	m	0.06	0.06			0.0%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	pH-F	pH Units	7.94	7.94			0.0%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	SO4-D	mg/L	480	470	5.0	5.0	2.1%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	S2-T	mg/L	0.0048	0.0073	0.0018	0.0018		FALSE
2SI	2SI-25AUG25-R	2025-08-25	Cond-F	uS/cm	1411	1411			0.0%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	SG	m	0.1	0.1			0.0%	FALSE
2SI	2SI-25AUG25-R	2025-08-25	Flow	m3/s	0.00148423	0.00148423			0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	SG	m	0.12	0.12			0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	S2-T	mg/L	0.014	0.014	0.0018	0.0018	0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	SO4-D	mg/L	210	210	5	5	0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	Cond-F	uS/cm	684	684			0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	pH-F	pH Units	7.71	7.71			0.0%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	H2S	mg/L	0.015	0.014	0.002	0.002	6.9%	FALSE
2SI	2SI-26JAN26-R	2026-01-26	Temp-F	C	1.5	1.5			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	Temp-F	C	12.9	12.9			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	H2S	mg/L	0.012	0.016	0.0020	0.0020	28.6%	TRUE
2SI	2SI-9JUN25-R	2025-06-09	Wlevel	m	0.06	0.06			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	Flow	m3/s	0.001792727	0.001792727			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	pH-F	pH Units	7.83	7.83			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	Cond-F	uS/cm	1277	1277			0.0%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	SO4-D	mg/L	400	420	5.0	5.0	4.9%	FALSE
2SI	2SI-9JUN25-R	2025-06-09	S2-T	mg/L	0.012	0.015	0.0018	0.0018	22.2%	TRUE
2SI	2SI-9JUN25-R	2025-06-09	SG	m	0.102	0.102			0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
3S	3S-1OCT25-R	2025-10-01	SO4-D	mg/L	460	460	5.0	5.0	0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	pH-L	pH Units	8.07	8.05			0.2%	FALSE
3S	3S-1OCT25-R	2025-10-01	Bicarb	mg/L	190	190	1.0	1.0	0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	Alk-T	mg/L	150	160	1.0	1.0	6.5%	FALSE
3S	3S-1OCT25-R	2025-10-01	Cond-F	uS/cm	1168	1168			0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	Temp-F	C	11.8	11.8			0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
3S	3S-1OCT25-R	2025-10-01	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
3S	3S-1OCT25-R	2025-10-01	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
3S	3S-1OCT25-R	2025-10-01	SG	m	1.42	1.42			0.0%	FALSE
3S	3S-1OCT25-R	2025-10-01	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
3S	3S-1OCT25-R	2025-10-01	pH-F	pH Units	7.98	7.98			0.0%	FALSE
INF	INF-18AUG25-R	2025-08-18	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
INF	INF-18AUG25-R	2025-08-18	Temp-F	C	11.1	11.1			0.0%	FALSE
INF	INF-18AUG25-R	2025-08-18	pH-F	pH Units	7.06	7.06			0.0%	FALSE
INF	INF-18AUG25-R	2025-08-18	Cond-F	uS/cm	1474	1474			0.0%	FALSE
INF	INF-18AUG25-R	2025-08-18	SO4-D	mg/L	570	580	5.0	5.0	1.7%	FALSE
INF	INF-18AUG25-R	2025-08-18	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
INF	INF-20MAY25-R	2025-05-20	pH-F	pH Units	7.12	7.12			0.0%	FALSE
INF	INF-20MAY25-R	2025-05-20	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
INF	INF-20MAY25-R	2025-05-20	Cond-F	uS/cm	1485	1485			0.0%	FALSE
INF	INF-20MAY25-R	2025-05-20	Flow	m3/s	0.0032	0.0032			0.0%	FALSE
INF	INF-20MAY25-R	2025-05-20	Temp-F	C	9.8	9.8			0.0%	FALSE
INF	INF-20MAY25-R	2025-05-20	H2S	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
INF	INF-20MAY25-R	2025-05-20	SO4-D	mg/L	510	510	5	5	0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	Wlevel	m	15.4	15.4			0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	Temp-F	C	10.3	10.3			0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	Flow	m3/s	0.0031	0.0031			0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
INF	INF-22APR25-R	2025-04-22	SO4-D	mg/L	530	510	5.0	5.0	3.8%	FALSE
INF	INF-22APR25-R	2025-04-22	Cond-F	uS/cm	1470	1470			0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	pH-F	pH Units	7.04	7.04			0.0%	FALSE
INF	INF-22APR25-R	2025-04-22	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
INF	INF-28APR25-R	2025-04-28	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
INF	INF-28APR25-R	2025-04-28	Flow	m3/s	0.0032	0.0032			0.0%	FALSE
INF	INF-28APR25-R	2025-04-28	SO4-D	mg/L	550	560	5.0	5.0	1.8%	FALSE
INF	INF-28APR25-R	2025-04-28	pH-F	pH Units	6.94	6.94			0.0%	FALSE
INF	INF-28APR25-R	2025-04-28	Wlevel	m	15.1	15.1			0.0%	FALSE
INF	INF-28APR25-R	2025-04-28	Temp-F	C	10	10			0.0%	FALSE
INF	INF-28APR25-R	2025-04-28	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
INF	INF-28APR25-R	2025-04-28	Cond-F	uS/cm	1511	1511			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	pH-F	pH Units	7.07	7.07			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	Flow	m3/s	0.0022	0.0022			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	Cond-F	uS/cm	1650	1650			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	Temp-F	C	10.8	10.8			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
INF	INF-8Sep25-R	2025-09-08	Tot.		6170565.7	6170565.7			0.0%	FALSE
INF	INF-8Sep25-R	2025-09-08	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
INF	INF-8Sep25-R	2025-09-08	SO4-D	mg/L	570	580	5.0	10		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mo-D	mg/L	0.000173	0.000151	0.000050	0.000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Si-T	mg/L	2.1	2.1	0.05	0.05	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Si-D	mg/L	2.17	2.17	0.050	0.050	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Se-T	mg/L	0.000081	0.000085	0.000040	0.000040		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Se-D	mg/L	0.000089	0.000063	0.000040	0.000040		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	K-T	mg/L	0.209	0.201	0.050	0.050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	K-D	mg/L	0.208	0.207	0.050	0.050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ni-T	mg/L	0.000120	0.000132	0.000020	0.000020	9.5%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mo-T	mg/L	0.000151	0.000139	0.000050	0.000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Na-D	mg/L	8.00	7.97	0.050	0.050	0.4%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mn-D	mg/L	0.00509	0.00529	0.000050	0.000050	3.9%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mg-D	mg/L	1.17	1.17	0.050	0.050	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Li-T	mg/L	0.00076	0.00074	0.00050	0.00050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Li-D	mg/L	0.00070	0.00073	0.00050	0.00050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Fe-T	mg/L	0.0858	0.0909	0.0010	0.0010	5.8%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Fe-D	mg/L	0.0491	0.0499	0.0010	0.0010	1.6%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ni-D	mg/L	0.000097	0.000108	0.000020	0.000020	10.7%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	V-T	mg/L	0.00021	0.00026	0.00020	0.00020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Zn-D	mg/L	0.00146	0.00072	0.00010	0.00010	67.9%	TRUE
IRQR	IRQR-12MAY25-R	2025-05-12	Zn-T	mg/L	0.00012	0.00019	0.00010	0.00010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	U-T	mg/L	0.0000070	0.0000090	0.0000020	0.0000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	U-D	mg/L	0.0000080	0.0000090	0.0000020	0.0000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	TSS	mg/L	<1.0	1.2	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
IRQR	IRQR-12MAY25-R	2025-05-12	TI-T	mg/L	<0.00050	0.00053	0.00050	0.00050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mg-T	mg/L	1.20	1.17	0.050	0.050	2.5%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Hard-T	mg/L	31.0	30.7	0.50	0.50	1.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	TI-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	TI-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	SO4-D	mg/L	16	16	1.0	1.0	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sr-T	mg/L	0.0527	0.0523	0.000050	0.000050	0.8%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sr-D	mg/L	0.0518	0.0516	0.000050	0.000050	0.4%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Na-T	mg/L	8.14	8.09	0.050	0.050	0.6%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	V-D	mg/L	0.00021	0.00022	0.00020	0.00020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	TI-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	As-T	mg/L	0.00102	0.00101	0.000020	0.000020	1.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	As-D	mg/L	0.000936	0.000908	0.000020	0.000020	3.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Al-T	mg/L	0.0358	0.0378	0.00050	0.00050	5.4%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Al-D	mg/L	0.0256	0.0271	0.00050	0.00050	5.7%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Alk-T	mg/L	35	34	1.0	1.0	2.9%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cond-F	uS/cm	132.2	132.2			0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	pH-F	pH Units	8.27	8.27			0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ba-D	mg/L	0.00358	0.00367	0.000020	0.000020	2.5%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	S-T	mg/L	4.6	4.9	3.0	3.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	S-D	mg/L	4.7	4.6	3.0	3.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Mn-T	mg/L	0.00644	0.00657	0.000050	0.000050	2.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	DOC	mg/L	2.6	2.6	0.50	0.50	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Temp-F	C	13.1	13.1			0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ba-T	mg/L	0.00369	0.00373	0.000020	0.000020	1.1%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cu-T	mg/L	0.000642	0.000651	0.000050	0.000050	1.4%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cu-D	mg/L	0.000616	0.000603	0.000050	0.000050	2.1%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Co-T	mg/L	0.0000300	0.0000330	0.0000050	0.0000050	9.5%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Co-D	mg/L	0.0000240	0.0000240	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Hard-D	mg/L	30.7	30.3	0.50	0.50	1.3%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cr-D	mg/L	0.00016	0.00014	0.00010	0.00010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ca-T	mg/L	10.4	10.4	0.050	0.050	0.0%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Ca-D	mg/L	10.4	10.2	0.050	0.050	1.9%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Bicarb	mg/L	42	41	1.0	1.0	2.4%	FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cr-T	mg/L	0.00014	0.00018	0.00010	0.00010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cd-T	mg/L	0.0000090	0.0000060	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	B-T	mg/L	0.038	0.038	0.01	0.01		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	B-D	mg/L	0.039	0.040	0.010	0.010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
IRQR	IRQR-12MAY25-R	2025-05-12	Cd-D	mg/L	<0.0000050	0.0000050	0.0000050	0.0000050		FALSE
LLE	LLE-19JAN26-R	2026-01-19	Wlevel	m	0.23	0.23			0.0%	FALSE
LLE	LLE-19JAN26-R	2026-01-19	Flow	m3/s	0.4794	0.4794			0.0%	FALSE
LLE	LLE-19JAN26-R	2026-01-19	pH-F	pH Units	7.35	7.35			0.0%	FALSE
LLE	LLE-19JAN26-R	2026-01-19	Cond-F	uS/cm	362	362			0.0%	FALSE
LLE	LLE-19JAN26-R	2026-01-19	Temp-F	C	2.1	2.1			0.0%	FALSE
LLE	LLE-19JAN26-R	2026-01-19	SO4-D	mg/L	110	120	2	2	8.7%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	SO4-D	mg/L	61	61	1	1	0.0%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	Cond-F	uS/cm	217	217			0.0%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	pH-F	pH Units	7.22	7.22			0.0%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	Flow	m3/s	0.606	0.606			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLE	LLE-23FEB26-R	2026-02-23	Wlevel	m	0.26	0.26			0.0%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	Temp-F	C	3.7	3.7			0.0%	FALSE
LLE	LLE-23FEB26-R	2026-02-23	SG	m	0.26	0.26			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	SO4-D	mg/L	270	270	5.0	5.0	0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	SG	m	0.01	0.01			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	Temp-F	C	17.6	17.6			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	Wlevel	m	0.01	0.01			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	Flow	m3/s	0.00066	0.00066			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	pH-F	pH Units	7.15	7.15			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	Cond-F	uS/cm	749	749			0.0%	FALSE
LLE	LLE-23JUN25-R	2025-06-23	Tot.		2690428.5	2690428.5			0.0%	FALSE
LLE	LLE-26MAY25-R	2025-05-26	Cond-F	uS/cm	296	296			0.0%	FALSE
LLE	LLE-26MAY25-R	2025-05-26	SO4-D	mg/L	89	88	1.0	1.0	1.1%	FALSE
LLE	LLE-26MAY25-R	2025-05-26	pH-F	pH Units	6.67	6.67			0.0%	FALSE
LLE	LLE-26MAY25-R	2025-05-26	SG	m	0.03	0.03			0.0%	FALSE
LLE	LLE-26MAY25-R	2025-05-26	Temp-F	C	13.4	13.4			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	TI-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	pH-L	pH Units	7.49	7.32			2.3%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	P-T	mg/L	<0.0030	0.011	0.0030	0.0030		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	K-D	mg/L	0.241	0.241	0.050	0.050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	K-T	mg/L	<0.25	<0.25	0.25	0.25		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Si-D	mg/L	2.66	2.66	0.050	0.050	0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Si-T	mg/L	2.73	2.89	0.050	0.050	5.7%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ag-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Na-D	mg/L	6.92	6.91	0.050	0.050	0.1%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Na-T	mg/L	6.77	6.92	0.25	0.25	2.2%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sr-T	mg/L	0.136	0.140	0.000050	0.000050	2.9%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ti-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	U-D	mg/L	0.0000084	0.0000103	0.0000020	0.0000020	20.3%	TRUE
LLM1	LLM1-6AUG25-R	2025-08-06	U-T	mg/L	0.0000071	0.0000055	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	V-D	mg/L	0.00025	0.00026	0.00020	0.00020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	V-T	mg/L	0.00026	0.00025	0.00020	0.00020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Zn-D	mg/L	0.00102	0.00083	0.00010	0.00010	20.5%	TRUE
LLM1	LLM1-6AUG25-R	2025-08-06	Zn-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	SO4-D	mg/L	51	52	1.0	1.0	1.9%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sr-D	mg/L	0.136	0.135	0.000050	0.000050	0.7%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sat-F	%	99.4	99.4			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Bicarb	mg/L	40	40	1.0	1.0	0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ba-T	mg/L	0.00457	0.00492	0.000050	0.000050	7.4%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ba-D	mg/L	0.00493	0.00496	0.000020	0.000020	0.6%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	As-T	mg/L	0.000591	0.000597	0.000020	0.000020	1.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	As-D	mg/L	0.000593	0.000585	0.000020	0.000020	1.4%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Al-T	mg/L	0.0083	0.0098	0.0030	0.0030		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Al-D	mg/L	0.00780	0.00800	0.00050	0.00050	2.5%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Alk-T	mg/L	33	33	1.0	1.0	0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	DO-F	mg/L	8.62	8.62			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	TI-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Turb-F	NTU	-1.3	-1.3				FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	ORP-F	mV	199.8	199.8			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	DOC	mg/L	3.1	3.2	0.50	0.50	3.2%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cond-F	uS/cm	186.7	186.7			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	pH-F	pH Units	7.58	7.58			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM1	LLM1-6AUG25-R	2025-08-06	S-D	mg/L	17.3	17.4	3.0	3.0	0.6%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Temp-F	C	22.4	22.4			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Wlevel	m	1.0	1.0			0.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Hard-D	mg/L	65.7	65.8	0.50	0.50	0.2%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Mg-D	mg/L	2.80	2.79	0.050	0.050	0.4%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ni-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	S-T	mg/L	16.7	17.7	3.0	3.0	5.8%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Bi-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ni-D	mg/L	0.000066	0.000102	0.000020	0.000020	42.9%	TRUE
LLM1	LLM1-6AUG25-R	2025-08-06	Mo-T	mg/L	0.000191	0.000180	0.000050	0.000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Mo-D	mg/L	0.000262	0.000253	0.000050	0.000050	3.5%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Mn-T	mg/L	0.00447	0.00521	0.00010	0.00010	15.3%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Mg-T	mg/L	2.74	2.86	0.25	0.25	4.3%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Li-T	mg/L	0.00083	0.00087	0.00050	0.00050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Li-D	mg/L	0.00100	0.00097	0.00050	0.00050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Pb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Pb-D	mg/L	<0.0000050	0.0000054	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Fe-T	mg/L	0.0226	0.0260	0.0050	0.0050	14.0%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cr-T	mg/L	0.00012	0.00014	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	B-D	mg/L	0.058	0.057	0.010	0.010	1.7%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Mn-D	mg/L	0.00127	0.00133	0.000050	0.000050	4.6%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Fe-D	mg/L	0.0177	0.0184	0.0010	0.0010	3.9%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	B-T	mg/L	0.055	0.058	0.010	0.010	5.3%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ca-D	mg/L	21.7	21.8	0.050	0.050	0.5%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Ca-T	mg/L	20.6	21.9	0.25	0.25	6.1%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cd-D	mg/L	<0.0000050	0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cr-D	mg/L	0.00013	0.00015	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Co-D	mg/L	0.0000083	0.0000096	0.0000050	0.0000050		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Co-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cu-D	mg/L	0.000322	0.000313	0.000050	0.000050	2.8%	FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Cu-T	mg/L	0.00027	0.00026	0.00010	0.00010		FALSE
LLM1	LLM1-6AUG25-R	2025-08-06	Hard-T	mg/L	62.8	66.4	0.50	0.50	5.6%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cu-D	mg/L	0.000602	0.000613	0.00005	0.00005	1.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Hard-T	mg/L	23.6	24.3	0.5	0.5	2.9%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ba-T	mg/L	0.00252	0.00247	0.00002	0.00002	2.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cu-T	mg/L	0.000539	0.000544	0.00005	0.00005	0.9%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Bicarb	mg/L	18	19	1	1	5.4%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	B-T	mg/L	0.022	0.023	0.01	0.01		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Co-T	mg/L	0.0000274	0.0000287	0.000005	0.000005	4.6%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ca-D	mg/L	6.98	7.3	0.05	0.05	4.5%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ca-T	mg/L	7.28	7.58	0.05	0.05	4.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cr-D	mg/L	0.0002	0.00018	0.0001	0.0001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cr-T	mg/L	0.00016	0.00016	0.0001	0.0001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Co-D	mg/L	0.0000286	0.0000241	0.000005	0.000005	17.1%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ba-D	mg/L	0.00251	0.00252	0.00002	0.00002	0.4%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	pH-F	pH Units	6.77	6.77			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	B-D	mg/L	0.021	0.02	0.01	0.01		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Wlevel	m	1	1			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Turb-F	NTU	0.33	0.33			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	DOC	mg/L	5.4	5.2	0.5	0.5	3.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Hard-D	mg/L	21.8	22.7	0.5	0.5	4.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	S-D	mg/L	3.6	3.7	3	3		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	S-T	mg/L	3.7	3.5	3	3		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	DO-F	mg/L	10.58	10.58			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM1	LLM1-6NOV25-R	2025-11-06	Temp-F	C	7.528	7.528			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	As-T	mg/L	0.000361	0.000348	0.00002	0.00002	3.7%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sat-F	%	88.3	88.3			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ni-T	mg/L	0.000092	0.000098	0.00002	0.00002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Cond-F	uS/cm	62.3	62.3			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Fe-D	mg/L	0.0542	0.0558	0.001	0.001	2.9%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Alk-T	mg/L	15	15	1	1	0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Al-D	mg/L	0.045	0.0472	0.0005	0.0005	4.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Al-T	mg/L	0.0565	0.0568	0.0005	0.0005	0.5%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	As-D	mg/L	0.000358	0.000376	0.00002	0.00002	4.9%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ti-D	mg/L	0.0007	0.0007	0.0005	0.0005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mo-T	mg/L	0.000147	0.000149	0.00005	0.00005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Na-D	mg/L	2.04	2.06	0.05	0.05	1.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Na-T	mg/L	2.28	2.23	0.05	0.05	2.2%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sr-D	mg/L	0.0364	0.0368	0.00005	0.00005	1.1%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sr-T	mg/L	0.0336	0.0337	0.00005	0.00005	0.3%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	SO4-D	mg/L	12	12	1	1	0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ti-D	mg/L	<0.000020	<0.000020	0.000002	0.000002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ti-T	mg/L	<0.000020	<0.000020	0.000002	0.000002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Si-T	mg/L	3.26	3.49	0.05	0.05	6.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ti-T	mg/L	0.00138	0.00131	0.0005	0.0005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Turb	NTU	1	1.1	0.1	0.1	9.5%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	U-D	mg/L	0.0000055	0.0000061	0.000002	0.000002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	U-T	mg/L	0.0000064	0.0000068	0.000002	0.000002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	V-D	mg/L	0.00047	0.00049	0.0002	0.0002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	V-T	mg/L	0.00046	0.00046	0.0002	0.0002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Zn-T	mg/L	0.00039	0.0005	0.0001	0.0001		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Zn-D	mg/L	0.00092	0.00094	0.0001	0.0001	2.2%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	ORP-F	mV	227.4	227.4			0.0%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	N-NO3	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Pb-T	mg/L	0.0000053	0.0000072	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Li-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mg-D	mg/L	1.06	1.09	0.05	0.05	2.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mg-T	mg/L	1.32	1.31	0.05	0.05	0.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mn-D	mg/L	0.00275	0.00282	0.00005	0.00005	2.5%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mn-T	mg/L	0.00395	0.00392	0.00005	0.00005	0.8%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Ni-D	mg/L	0.000109	0.000088	0.00002	0.00002	21.3%	TRUE
LLM1	LLM1-6NOV25-R	2025-11-06	Fe-T	mg/L	0.0741	0.0753	0.001	0.001	1.6%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	N-NO23	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	N-NO2	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	pH-L	pH Units	6.48	6.4			1.2%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	P-D	mg/L	0.0038	0.0038	0.003	0.003		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	K-D	mg/L	0.142	0.146	0.05	0.05		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	K-T	mg/L	0.146	0.144	0.05	0.05		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Si-D	mg/L	3.16	3.3	0.05	0.05	4.3%	FALSE
LLM1	LLM1-6NOV25-R	2025-11-06	Mo-D	mg/L	0.000161	0.000152	0.00005	0.00005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sr-D	mg/L	0.169	0.169	0.00005	0.00005	0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mo-T	mg/L	0.000186	0.00019	0.00005	0.00005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Fe-T	mg/L	0.0482	0.0469	0.001	0.001	2.7%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	K-T	mg/L	0.34	0.332	0.05	0.05	2.4%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	K-D	mg/L	0.313	0.31	0.05	0.05	1.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	P-T	mg/L	0.0038	0.0033	0.003	0.003		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	pH-L	pH Units	7.32	7.43			1.5%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	N-NO23	mg/L	<0.020	0.085	0.02	0.02		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Si-T	mg/L	3.26	3.13	0.05	0.05	4.1%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM1	LLM1-7OCT25-R	2025-10-07	Ni-D	mg/L	0.000144	0.000142	0.00002	0.00002	1.4%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mo-D	mg/L	0.000202	0.000201	0.00005	0.00005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mn-T	mg/L	0.0104	0.00988	0.00005	0.00005	5.1%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mn-D	mg/L	0.00461	0.0047	0.00005	0.00005	1.9%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mg-T	mg/L	3.41	3.32	0.05	0.05	2.7%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Mg-D	mg/L	3.11	3.15	0.05	0.05	1.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Li-T	mg/L	0.00125	0.00116	0.0005	0.0005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Li-D	mg/L	0.00112	0.00107	0.0005	0.0005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Na-D	mg/L	7.9	7.85	0.05	0.05	0.6%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ni-T	mg/L	0.000143	0.000167	0.00002	0.00002	15.5%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ti-T	mg/L	0.00051	<0.00050	0.0005	0.0005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	As-D	mg/L	0.000609	0.000578	0.00002	0.00002	5.2%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	ORP-F	mV	23	23			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Zn-T	mg/L	0.00053	0.00043	0.0001	0.0001	20.8%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	Zn-D	mg/L	0.0007	0.00121	0.0001	0.0001	53.4%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	V-T	mg/L	0.00026	0.00026	0.0002	0.0002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	V-D	mg/L	0.00021	0.0002	0.0002	0.0002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	U-T	mg/L	0.0000079	0.0000088	0.000002	0.000002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	U-D	mg/L	0.0000067	0.0000065	0.000002	0.000002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Si-D	mg/L	3.01	2.97	0.05	0.05	1.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	N-TKN	mg/L	0.16	0.094	0.02	0.02	52.0%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	Fe-D	mg/L	0.0218	0.0194	0.001	0.001	11.7%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Tl-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Tl-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	SO4-D	mg/L	61	61	1	1	0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sr-T	mg/L	0.185	0.182	0.00005	0.00005	1.6%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Na-T	mg/L	8.47	8.22	0.05	0.05	3.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	N-T	mg/L	0.159	0.179	0.02	0.02	11.8%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Al-T	mg/L	0.0175	0.0159	0.0005	0.0005	9.6%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Al-D	mg/L	0.00831	0.00753	0.0005	0.0005	9.8%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Alk-T	mg/L	47	34	1	1	32.1%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	DO-F	mg/L	9.36	9.36			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Cond-F	uS/cm	195.4	195.4			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	pH-F	pH Units	6.82	6.82			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sat-F	%	91.5	91.5			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Temp-F	C	14.3	14.3			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	As-T	mg/L	0.000675	0.000648	0.00002	0.00002	4.1%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	S-T	mg/L	22.2	20.5	3	3	8.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	S-D	mg/L	19.9	19.7	3	3	1.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Acidity83	mg/L	4.5	1.4	1	1		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Hard-D	mg/L	75.2	74.1	0.5	0.5	1.5%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Wlevel	m	1	1			0.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Hard-T	mg/L	78.9	77.1	0.5	0.5	2.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Cu-T	mg/L	0.000391	0.000561	0.00005	0.00005	35.7%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	Cu-D	mg/L	0.000386	0.000428	0.00005	0.00005	10.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Co-T	mg/L	0.0000164	0.0000228	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Co-D	mg/L	0.0000092	0.0000096	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Chlr-a	ug/L	1.8	1.7	0.53	0.53		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ca-D	mg/L	25	24.5	0.05	0.05	2.0%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	DOC	mg/L	3.3	3.2	0.5	0.5	3.1%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM1	LLM1-7OCT25-R	2025-10-07	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	B-D	mg/L	0.061	0.059	0.01	0.01	3.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	B-T	mg/L	0.066	0.062	0.01	0.01	6.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Bicarb	mg/L	57	41	1	1	32.7%	TRUE
LLM1	LLM1-7OCT25-R	2025-10-07	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ba-T	mg/L	0.00649	0.00626	0.00002	0.00002	3.6%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ca-T	mg/L	26	25.4	0.05	0.05	2.3%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Ba-D	mg/L	0.00609	0.00596	0.00002	0.00002	2.2%	FALSE
LLM1	LLM1-7OCT25-R	2025-10-07	Turb-F	NTU	-1	-1				FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ni-T	mg/L	0.000101	0.000106	0.000020	0.000020	4.8%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ni-D	mg/L	0.000088	0.000097	0.000020	0.000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mo-T	mg/L	0.000177	0.000189	0.000050	0.000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mo-D	mg/L	0.000194	0.000206	0.000050	0.000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mn-T	mg/L	0.00687	0.00682	0.000050	0.000050	0.7%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	pH-L	pH Units	7.35	7.29			0.8%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	P-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	K-D	mg/L	0.213	0.220	0.050	0.050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Si-D	mg/L	2.74	2.75	0.050	0.050	0.4%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mn-D	mg/L	0.00252	0.00362	0.000050	0.000050	35.8%	TRUE
LLM1	LLM1-9JUL25-R	2025-07-09	Cr-D	mg/L	<0.00010	0.00012	0.00010	0.00010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Si-T	mg/L	2.91	2.90	0.050	0.050	0.3%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ag-D	mg/L	<0.0000050	0.0000069	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Na-D	mg/L	5.94	5.98	0.050	0.050	0.7%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	K-T	mg/L	0.212	0.217	0.050	0.050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cu-D	mg/L	0.000339	0.000402	0.000050	0.000050	17.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	B-D	mg/L	0.049	0.048	0.010	0.010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	B-T	mg/L	0.051	0.051	0.010	0.010	0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	pH-F	pH Units	7.31	7.31			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Na-T	mg/L	5.97	5.97	0.050	0.050	0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ca-D	mg/L	19.2	19.1	0.050	0.050	0.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ca-T	mg/L	19.5	19.7	0.050	0.050	1.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Co-D	mg/L	0.0000149	0.0000100	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Co-T	mg/L	0.0000128	0.0000112	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mg-T	mg/L	2.43	2.49	0.050	0.050	2.4%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cu-T	mg/L	0.000329	0.000363	0.000050	0.000050	9.8%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Hard-T	mg/L	58.7	59.6	0.50	0.50	1.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Fe-D	mg/L	0.0287	0.0301	0.0010	0.0010	4.8%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Fe-T	mg/L	0.0360	0.0356	0.0010	0.0010	1.1%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Pb-D	mg/L	0.0000090	0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Pb-T	mg/L	0.0000109	0.0000503	0.0000050	0.0000050	128.8%	TRUE
LLM1	LLM1-9JUL25-R	2025-07-09	Li-D	mg/L	0.00077	0.00078	0.00050	0.00050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Li-T	mg/L	0.00078	0.00080	0.00050	0.00050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Mg-D	mg/L	2.51	2.54	0.050	0.050	1.2%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Al-T	mg/L	0.0122	0.0119	0.00050	0.00050	2.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Al-D	mg/L	0.0108	0.0142	0.00050	0.00050	27.2%	TRUE
LLM1	LLM1-9JUL25-R	2025-07-09	Alk-T	mg/L	30	29	1.0	1.0	3.4%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Cond-F	uS/cm	163.4	163.4			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Zn-T	mg/L	0.00045	0.00062	0.00010	0.00010	31.8%	TRUE
LLM1	LLM1-9JUL25-R	2025-07-09	Sat-F	%	100.8	100.8			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Wlevel	m	1.0	1.0			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	DO-F	mg/L	8.81	8.81			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	As-D	mg/L	0.000517	0.000623	0.000020	0.000020	18.6%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM1	LLM1-9JUL25-R	2025-07-09	S-T	mg/L	14.4	14.3	3.0	3.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	S-D	mg/L	14.7	13.7	3.0	3.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Hard-D	mg/L	58.4	58.1	0.50	0.50	0.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	DOC	mg/L	3.2	3.2	0.50	0.50	0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Turb-F	NTU	2.5	2.5			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	ORP-F	mV	116.7	116.7			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Temp-F	C	22.033	22.033			0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	V-T	mg/L	0.00024	0.00026	0.00020	0.00020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sr-T	mg/L	0.128	0.128	0.000050	0.000050	0.0%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	SO4-D	mg/L	44	43	1.0	1.0	2.3%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ti-D	mg/L	<0.0000020	0.0000038	0.0000020	0.0000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	U-D	mg/L	0.0000084	0.0000070	0.0000020	0.0000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	V-D	mg/L	0.00025	0.00033	0.00020	0.00020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Zn-D	mg/L	0.00060	0.00068	0.00010	0.00010	12.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Bi-D	mg/L	<0.0000050	0.0000074	0.0000050	0.0000050		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Bicarb	mg/L	37	36	1.0	1.0	2.7%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ba-T	mg/L	0.00456	0.00452	0.000020	0.000020	0.9%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Ba-D	mg/L	0.00438	0.00444	0.000020	0.000020	1.4%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	As-T	mg/L	0.000521	0.000534	0.000020	0.000020	2.5%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	Sr-D	mg/L	0.117	0.118	0.000050	0.000050	0.9%	FALSE
LLM1	LLM1-9JUL25-R	2025-07-09	U-T	mg/L	0.0000076	0.0000090	0.0000020	0.0000020		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cu-D	mg/L	0.000348	0.000342	0.00005	0.00005	1.7%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	DOC	mg/L	3.6	3.6	0.5	0.5	0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	ORP-F	mV	73.2	73.2			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ca-D	mg/L	24.4	24.8	0.05	0.05	1.6%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ca-T	mg/L	23.5	24.2	0.05	0.05	2.9%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cr-D	mg/L	0.00012	<0.00010	0.0001	0.0001		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cr-T	mg/L	0.00013	0.00012	0.0001	0.0001		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	As-T	mg/L	0.000552	0.00054	0.00002	0.00002	2.2%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Co-T	mg/L	0.0000163	0.0000169	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cu-T	mg/L	0.000355	0.000366	0.00005	0.00005	3.1%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Hard-T	mg/L	70.4	72.4	0.5	0.5	2.8%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Fe-D	mg/L	0.019	0.0186	0.001	0.001	2.1%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Fe-T	mg/L	0.0394	0.0411	0.001	0.001	4.2%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Li-D	mg/L	0.00121	0.00119	0.0005	0.0005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Co-D	mg/L	0.0000097	0.0000098	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sat-F	%	71.1	71.1			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	As-D	mg/L	0.000546	0.000551	0.00002	0.00002	0.9%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Al-T	mg/L	0.0119	0.0126	0.0005	0.0005	5.7%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Al-D	mg/L	0.00854	0.00806	0.0005	0.0005	5.8%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Alk-T	mg/L	30	33	1	1	9.5%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	DO-F	mg/L	7.67	7.67			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Hard-D	mg/L	74.7	75.5	0.5	0.5	1.1%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	pH-F	pH Units	7.02	7.02			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Wlevel	m	4	4			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Temp-F	C	11.7	11.7			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM4	LLM4-15OCT25-R	2025-10-15	S-T	mg/L	17	17.6	3	3	3.5%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	S-D	mg/L	19.4	19.3	3	3	0.5%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mg-T	mg/L	2.83	2.92	0.05	0.05	3.1%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Cond-F	uS/cm	153.1	153.1			0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Li-T	mg/L	0.00073	0.00081	0.0005	0.0005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Na-T	mg/L	6.93	7.31	0.05	0.05	5.3%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sr-D	mg/L	0.165	0.165	0.00005	0.00005	0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sr-T	mg/L	0.159	0.156	0.00005	0.00005	1.9%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	SO4-D	mg/L	58	58	1	1	0.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ti-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	N-TKN	mg/L	0.15	0.2	0.02	0.02	28.6%	TRUE
LLM4	LLM4-15OCT25-R	2025-10-15	N-T	mg/L	0.149	0.202	0.02	0.02	30.2%	TRUE
LLM4	LLM4-15OCT25-R	2025-10-15	Turb	NTU	0.6	0.49	0.1	0.1	20.2%	TRUE
LLM4	LLM4-15OCT25-R	2025-10-15	U-T	mg/L	0.000065	0.000065	0.000002	0.000002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	V-T	mg/L	0.00022	0.00022	0.0002	0.0002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Zn-D	mg/L	0.00094	0.00045	0.0001	0.0001	70.5%	TRUE
LLM4	LLM4-15OCT25-R	2025-10-15	Zn-T	mg/L	0.00094	0.00054	0.0001	0.0001	54.1%	TRUE
LLM4	LLM4-15OCT25-R	2025-10-15	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	N-NO2	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	U-D	mg/L	0.0000058	0.0000055	0.000002	0.000002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mn-D	mg/L	0.00337	0.00339	0.00005	0.00005	0.6%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mn-T	mg/L	0.0103	0.0107	0.00005	0.00005	3.8%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mo-D	mg/L	0.000184	0.000176	0.00005	0.00005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mo-T	mg/L	0.000177	0.000181	0.00005	0.00005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ni-D	mg/L	0.000106	0.000125	0.00002	0.00002	16.5%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ni-T	mg/L	0.000128	0.000125	0.00002	0.00002	2.4%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Na-D	mg/L	7.78	7.84	0.05	0.05	0.8%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	N-NO3	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Mg-D	mg/L	3.31	3.32	0.05	0.05	0.3%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	pH-L	pH Units	7.17	7.43			3.6%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	P-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	K-D	mg/L	0.297	0.301	0.05	0.05	1.3%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	K-T	mg/L	0.287	0.29	0.05	0.05	1.0%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Si-D	mg/L	3.06	3.05	0.05	0.05	0.3%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Si-T	mg/L	2.78	2.9	0.05	0.05	4.2%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	N-NO3	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	B-T	mg/L	0.06	0.061	0.01	0.01	1.7%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Bicarb	mg/L	36	40	1	1	10.5%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ba-D	mg/L	0.00579	0.00577	0.00002	0.00002	0.3%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	Ba-T	mg/L	0.00569	0.0058	0.00002	0.00002	1.9%	FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	V-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM4	LLM4-15OCT25-R	2025-10-15	B-D	mg/L	0.075	0.074	0.01	0.01	1.3%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sat-F	%	85.5	85.5			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	DO-F	mg/L	10.41	10.41			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Turb-F	NTU	-0.22	-0.22				FALSE
LLM4	LLM4-16APR25-R	2025-04-16	ORP-F	mV	163.4	163.4			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	DOC	mg/L	3.2	3.2	0.50	0.50	0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Hard-D	mg/L	80.2	85.7	0.50	0.50	6.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	S-D	mg/L	21.7	21.8	3.0	3.0	0.5%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	S-T	mg/L	21.4	19.7	3.0	3.0	8.3%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM4	LLM4-16APR25-R	2025-04-16	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Wlevel	m	4	4			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Bicarb	mg/L	41	40	1.0	1.0	2.5%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cond-F	uS/cm	237.3	237.3			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Alk-T	mg/L	34	33	1.0	1.0	3.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Al-D	mg/L	0.0251	0.0247	0.00050	0.00050	1.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Al-T	mg/L	0.0323	0.0522	0.0030	0.0030	47.1%	TRUE
LLM4	LLM4-16APR25-R	2025-04-16	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	As-D	mg/L	0.000268	0.000284	0.000020	0.000020	5.8%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	As-T	mg/L	0.00027	0.00025	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ba-D	mg/L	0.00508	0.00502	0.000020	0.000020	1.2%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ba-T	mg/L	0.0050	0.0050	0.0010	0.0010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Temp-F	C	6.714	6.714			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mg-D	mg/L	3.12	3.08	0.050	0.050	1.3%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mg-T	mg/L	3.29	3.02	0.050	0.050	8.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mn-D	mg/L	0.0123	0.0122	0.000050	0.000050	0.8%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mo-D	mg/L	0.000149	0.000138	0.000050	0.000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ni-D	mg/L	0.000163	0.000142	0.000020	0.000020	13.8%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ni-T	mg/L	<0.0010	0.0013	0.0010	0.0010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	P-T	mg/L	0.0045	0.0046	0.0030	0.0030		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	K-D	mg/L	0.311	0.311	0.050	0.050	0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	K-T	mg/L	0.319	0.305	0.050	0.050	4.5%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Mn-T	mg/L	0.0165	0.0166	0.0010	0.0010	0.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cr-D	mg/L	0.00016	0.00017	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	B-T	mg/L	0.058	0.055	0.050	0.050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ca-D	mg/L	27.0	29.3	0.050	0.050	8.2%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Li-D	mg/L	0.00142	0.00133	0.00050	0.00050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cu-T	mg/L	<0.00050	0.00083	0.00050	0.00050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Co-D	mg/L	0.0000185	0.0000200	0.0000050	0.0000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Cu-D	mg/L	0.000356	0.000375	0.000050	0.000050	5.2%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Hard-T	mg/L	81.7	76.5	0.50	0.50	6.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Fe-D	mg/L	0.0304	0.0331	0.0010	0.0010	8.5%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Fe-T	mg/L	0.051	0.099	0.010	0.010	64.0%	TRUE
LLM4	LLM4-16APR25-R	2025-04-16	Ca-T	mg/L	27.3	25.6	0.050	0.050	6.4%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	U-D	mg/L	0.0000095	0.0000106	0.0000020	0.0000020	10.9%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	pH-F	pH Units	6.48	6.48			0.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Zn-D	mg/L	0.00173	0.00108	0.00010	0.00010	46.3%	TRUE
LLM4	LLM4-16APR25-R	2025-04-16	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM4	LLM4-16APR25-R	2025-04-16	B-D	mg/L	0.058	0.059	0.010	0.010	1.7%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Si-T	mg/L	3.44	3.32	0.10	0.10	3.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Na-D	mg/L	8.54	8.40	0.050	0.050	1.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LODL1	LODL2	RPD %	True RPD >20%
LLM4	LLM4-16APR25-R	2025-04-16	Si-D	mg/L	3.28	3.45	0.050	0.050	5.1%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Na-T	mg/L	8.96	8.44	0.050	0.050	6.0%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sr-D	mg/L	0.188	0.191	0.000050	0.000050	1.6%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	Sr-T	mg/L	0.185	0.177	0.0010	0.0010	4.4%	FALSE
LLM4	LLM4-16APR25-R	2025-04-16	SO4-D	mg/L	67	62	1.0	1.0	7.8%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Fe-T	mg/L	0.037	0.037	0.010	0.010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Fe-D	mg/L	0.0297	0.0283	0.0010	0.0010	4.8%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Hard-T	mg/L	67.1	69.6	0.50	0.50	3.7%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Pb-D	mg/L	0.0000160	<0.000050	0.000050	0.000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cu-D	mg/L	0.000379	0.000369	0.000050	0.000050	2.7%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Co-D	mg/L	0.0000110	0.0000140	0.000050	0.000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cr-D	mg/L	0.00014	0.00018	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Li-D	mg/L	0.00107	0.00104	0.00050	0.00050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mg-D	mg/L	3.03	3.02	0.050	0.050	0.3%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mg-T	mg/L	2.74	2.90	0.050	0.050	5.7%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mn-D	mg/L	0.00329	0.00308	0.000050	0.000050	6.6%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mn-T	mg/L	0.0071	0.0075	0.0010	0.0010	5.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mo-D	mg/L	0.000189	0.000183	0.000050	0.000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	As-T	mg/L	0.00051	0.00055	0.00010	0.00010	7.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	N-NO23	mg/L	<0.020	0.277	0.020	0.020	173.1%	TRUE
LLM4	LLM4-16JUL25-R	2025-07-16	Turb-F	NTU	0.9	0.9			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ni-D	mg/L	0.000107	0.000101	0.000020	0.000020	5.8%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	As-D	mg/L	0.000487	0.000456	0.000020	0.000020	6.6%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	SO4-D	mg/L	53	54	1.0	1.0	1.9%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	P-D	mg/L	0.0050	0.0075	0.0030	0.0030		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Al-D	mg/L	0.0107	0.0121	0.00050	0.00050	12.3%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Alk-T	mg/L	33	32	1.0	1.0	3.1%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	DO-F	mg/L	8.97	8.97			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cond-F	uS/cm	183	183			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	pH-F	pH Units	7.38	7.38			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sat-F	%	98.1	98.1			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Wlevel	m	4.0	4.0			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Temp-F	C	19.504	19.504			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Al-T	mg/L	0.0120	0.0111	0.0030	0.0030		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ba-T	mg/L	0.0047	0.0049	0.0010	0.0010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ca-T	mg/L	22.3	23.1	0.050	0.050	3.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ba-D	mg/L	0.00505	0.00495	0.000020	0.000020	2.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Bicarb	mg/L	40	39	1.0	1.0	2.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Bi-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	B-T	mg/L	0.055	0.058	0.050	0.050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	B-D	mg/L	0.046	0.045	0.010	0.010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cd-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ca-D	mg/L	23.4	22.7	0.050	0.050	3.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Hard-D	mg/L	70.8	69.1	0.50	0.50	2.4%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	U-D	mg/L	0.0000050	0.0000060	0.0000020	0.0000020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	P-T	mg/L	0.0039	0.0049	0.0030	0.0030		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	V-D	mg/L	0.00021	0.00022	0.00020	0.00020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Zn-D	mg/L	0.00420	0.00086	0.00010	0.00010	132.0%	TRUE
LLM4	LLM4-16JUL25-R	2025-07-16	Zn-T	mg/L	0.0067	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	DOC	mg/L	3.4	3.2	0.50	0.50	6.1%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM4	LLM4-16JUL25-R	2025-07-16	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	S-D	mg/L	17.7	18.5	3.0	3.0	4.4%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	S-T	mg/L	16.3	17.5	3.0	3.0	7.1%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sr-D	mg/L	0.149	0.148	0.000050	0.000050	0.7%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	ORP-F	mV	148.6	148.6			0.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Na-T	mg/L	6.88	7.41	0.050	0.050	7.4%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	K-D	mg/L	0.265	0.269	0.050	0.050	1.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	K-T	mg/L	0.248	0.262	0.050	0.050	5.5%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Se-D	mg/L	0.000041	<0.000040	0.000040	0.000040		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Si-D	mg/L	3.07	3.02	0.050	0.050	1.6%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Si-T	mg/L	3.04	3.07	0.10	0.10	1.0%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Na-D	mg/L	7.18	7.41	0.050	0.050	3.2%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sr-T	mg/L	0.139	0.146	0.0010	0.0010	4.9%	FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLM4	LLM4-16JUL25-R	2025-07-16	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Zn-T	mg/L	0.00078	0.00044	0.0001	0.0001	55.7%	TRUE
LLM4	LLM4-29OCT25-R	2025-10-29	Zn-D	mg/L	0.00059	0.00055	0.0001	0.0001	7.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	V-T	mg/L	0.00044	0.00038	0.0002	0.0002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	V-D	mg/L	0.00031	0.00037	0.0002	0.0002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	U-T	mg/L	0.0000044	0.0000031	0.000002	0.000002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	U-D	mg/L	0.0000054	0.0000069	0.000002	0.000002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Turb	NTU	0.74	0.98	0.1	0.1	27.9%	TRUE
LLM4	LLM4-29OCT25-R	2025-10-29	N-T	mg/L	0.212	0.205	0.02	0.02	3.4%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	N-TKN	mg/L	0.21	0.18	0.02	0.02	15.4%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ti-D	mg/L	0.00054	0.00056	0.0005	0.0005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ti-D	mg/L	<0.0000020	0.000002	0.000002	0.000002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	SO4-D	mg/L	25	25	1	1	0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	B-T	mg/L	0.034	0.031	0.01	0.01		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sr-T	mg/L	0.0687	0.0693	0.00005	0.00005	0.9%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sr-D	mg/L	0.064	0.0622	0.00005	0.00005	2.9%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Na-T	mg/L	3.84	3.78	0.05	0.05	1.6%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Na-D	mg/L	4.05	3.81	0.05	0.05	6.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Si-T	mg/L	3.3	3.3	0.05	0.05	0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ti-T	mg/L	0.00096	0.00126	0.0005	0.0005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	S-D	mg/L	8.2	7.9	3	3		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sat-F	%	84.6	84.6			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Wlevel	m	4	4			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Temp-F	C	8.6	8.6			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cond-F	uS/cm	29.6	29.6			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	S-T	mg/L	7.4	10.6	3	3		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	DO-F	mg/L	9.83	9.83			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Hard-D	mg/L	39.2	38	0.5	0.5	3.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	DOC	mg/L	4.5	4.6	0.5	0.5	2.2%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	ORP-F	mV	67.5	67.5			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	As-T	mg/L	0.00043	0.000414	0.00002	0.00002	3.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	B-D	mg/L	0.033	0.033	0.01	0.01		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Bicarb	mg/L	25	25	1	1	0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLM4	LLM4-29OCT25-R	2025-10-29	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	pH-F	pH Units	6.79	6.79			0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ba-D	mg/L	0.00331	0.00312	0.00002	0.00002	5.9%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Si-D	mg/L	3.4	3.32	0.05	0.05	2.4%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	As-D	mg/L	0.000407	0.000369	0.00002	0.00002	9.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Al-T	mg/L	0.0499	0.0489	0.0005	0.0005	2.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Al-D	mg/L	0.0333	0.0354	0.0005	0.0005	6.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Alk-T	mg/L	21	21	1	1	0.0%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ba-T	mg/L	0.00355	0.00351	0.00002	0.00002	1.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Co-T	mg/L	0.0000285	0.0000257	0.000005	0.000005	10.3%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Pb-T	mg/L	0.0000067	0.0000052	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Fe-T	mg/L	0.0777	0.0775	0.001	0.001	0.3%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Fe-D	mg/L	0.0493	0.0476	0.001	0.001	3.5%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Hard-T	mg/L	38.9	38.6	0.5	0.5	0.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cu-D	mg/L	0.000554	0.000545	0.00005	0.00005	1.6%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ca-T	mg/L	12.5	12.4	0.05	0.05	0.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Co-D	mg/L	0.0000242	0.0000261	0.000005	0.000005	7.6%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cr-T	mg/L	0.00015	0.00016	0.0001	0.0001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cr-D	mg/L	0.00017	0.00018	0.0001	0.0001		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ca-D	mg/L	12.5	12.1	0.05	0.05	3.3%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cu-T	mg/L	0.000564	0.000543	0.00005	0.00005	3.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ni-T	mg/L	0.000094	0.000096	0.00002	0.00002		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Cd-T	mg/L	<0.0000050	0.0000054	0.000005	0.000005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	P-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Li-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	N-NO23	mg/L	<0.020	0.022	0.02	0.02		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	K-D	mg/L	0.211	0.2	0.05	0.05		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Ni-D	mg/L	0.000116	0.0001	0.00002	0.00002	14.8%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mo-T	mg/L	0.00016	0.000175	0.00005	0.00005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mo-D	mg/L	0.000124	0.000127	0.00005	0.00005		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mn-T	mg/L	0.00656	0.00631	0.00005	0.00005	3.9%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mn-D	mg/L	0.00367	0.00333	0.00005	0.00005	9.7%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	K-T	mg/L	0.228	0.216	0.05	0.05		FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mg-T	mg/L	1.84	1.82	0.05	0.05	1.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	Mg-D	mg/L	1.96	1.9	0.05	0.05	3.1%	FALSE
LLM4	LLM4-29OCT25-R	2025-10-29	pH-L	pH Units	6.79	6.76			0.4%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Fe-T	mg/L	0.0609	0.0629	0.005	0.005	3.2%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Fe-D	mg/L	0.0345	0.0339	0.001	0.001	1.8%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Hard-T	mg/L	56.6	59.3	0.5	0.5	4.7%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ca-T	mg/L	18.5	19.3	0.25	0.25	4.2%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cu-T	mg/L	0.00045	0.00048	0.0001	0.0001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cu-D	mg/L	0.000392	0.000389	0.00005	0.00005	0.8%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Co-T	mg/L	0.000023	0.000025	0.00001	0.00001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Co-D	mg/L	0.0000147	0.0000145	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ca-D	mg/L	20.4	20.2	0.05	0.05	1.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mn-T	mg/L	0.00671	0.00772	0.0001	0.0001	14.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	B-D	mg/L	0.049	0.048	0.01	0.01		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cr-T	mg/L	0.00017	0.00015	0.0001	0.0001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Pb-D	mg/L	0.000009	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Pb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Li-D	mg/L	0.00075	0.00079	0.0005	0.0005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Li-T	mg/L	0.00082	0.0008	0.0005	0.0005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mg-D	mg/L	2.73	2.75	0.05	0.05	0.7%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mn-D	mg/L	0.00348	0.00338	0.00005	0.00005	2.9%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mo-D	mg/L	0.000164	0.000165	0.00005	0.00005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mo-T	mg/L	0.000125	0.000141	0.00005	0.00005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ni-D	mg/L	0.000113	0.000117	0.00002	0.00002	3.5%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ni-T	mg/L	0.00014	0.00013	0.0001	0.0001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLO	LLO-27OCT25-R	2025-10-27	pH-L	pH Units	7.07	7			1.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	B-T	mg/L	0.046	0.047	0.01	0.01		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Temp-F	C	9.3	9.3			0.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	P-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Mg-T	mg/L	2.51	2.69	0.25	0.25	6.9%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Alk-T	mg/L	29	27	1	1	7.1%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	K-D	mg/L	0.288	0.282	0.05	0.05	2.1%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	SG	m	0.52	0.52			0.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	DOC	mg/L	3.8	3.9	0.5	0.5	2.6%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Hard-D	mg/L	62.1	61.8	0.5	0.5	0.5%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Acidity83	mg/L	1.7	1.9	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	S-D	mg/L	14.6	14.9	3	3		FALSE
LLO	LLO-27OCT25-R	2025-10-27	S-T	mg/L	16.6	15.8	3	3	4.9%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cond-F	uS/cm	151.1	151.1			0.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	pH-F	pH Units	7.32	7.32			0.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Bi-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Al-D	mg/L	0.018	0.0188	0.0005	0.0005	4.3%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Al-T	mg/L	0.0272	0.0302	0.003	0.003	10.5%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	As-D	mg/L	0.00047	0.000485	0.00002	0.00002	3.1%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	As-T	mg/L	0.000459	0.000496	0.00002	0.00002	7.7%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ba-D	mg/L	0.00545	0.0053	0.00002	0.00002	2.8%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ba-T	mg/L	0.00485	0.00498	0.00005	0.00005	2.6%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Bicarb	mg/L	35	33	1	1	5.9%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	V-T	mg/L	0.0003	0.00029	0.0002	0.0002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	K-T	mg/L	0.27	0.28	0.25	0.25		FALSE
LLO	LLO-27OCT25-R	2025-10-27	TSS	mg/L	<1.0	<1.0	1	1		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Cr-D	mg/L	0.00014	0.00018	0.0001	0.0001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Zn-D	mg/L	0.00105	0.00067	0.0001	0.0001	44.2%	TRUE
LLO	LLO-27OCT25-R	2025-10-27	V-D	mg/L	0.00025	0.00024	0.0002	0.0002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	U-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	U-D	mg/L	0.0000051	0.0000057	0.000002	0.000002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ti-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Tl-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Si-T	mg/L	2.96	3.12	0.05	0.05	5.3%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Zn-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Tl-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Si-D	mg/L	3.29	3.17	0.05	0.05	3.7%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sr-D	mg/L	0.124	0.123	0.00005	0.00005	0.8%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	SO4-D	mg/L	44	44	1	1	0.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Na-D	mg/L	6.12	6.07	0.05	0.05	0.8%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Na-T	mg/L	5.78	6	0.25	0.25	3.7%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Sr-T	mg/L	0.113	0.12	0.00005	0.00005	6.0%	FALSE
LLO	LLO-27OCT25-R	2025-10-27	Ag-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	pH-L	pH Units	7.36	7.30			0.8%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mn-T	mg/L	0.0077	0.0070	0.0010	0.0010	9.5%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Fe-D	mg/L	0.0061	0.0061	0.0050	0.0050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLO	LLO-28JUL25-R	2025-07-28	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ca-D	mg/L	22.2	22.3	0.050	0.050	0.4%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ca-T	mg/L	21.1	20.6	0.050	0.050	2.4%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cu-D	mg/L	0.00026	0.00029	0.00020	0.00020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Hard-T	mg/L	64.4	63.0	0.50	0.50	2.2%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mn-D	mg/L	0.0026	0.0026	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Fe-T	mg/L	0.026	0.024	0.010	0.010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mg-D	mg/L	2.88	2.89	0.050	0.050	0.3%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Mg-T	mg/L	2.84	2.78	0.050	0.050	2.1%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	K-D	mg/L	0.252	0.255	0.050	0.050	1.2%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	B-D	mg/L	0.054	0.055	0.050	0.050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Na-D	mg/L	6.86	6.90	0.050	0.050	0.6%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Na-T	mg/L	6.76	6.51	0.050	0.050	3.8%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sr-D	mg/L	0.130	0.131	0.0010	0.0010	0.8%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sr-T	mg/L	0.131	0.127	0.0010	0.0010	3.1%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	SO4-D	mg/L	51	47	1.0	1.0	8.2%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	K-T	mg/L	0.236	0.231	0.050	0.050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	TSS	mg/L	1.6	<1.0	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Si-T	mg/L	2.90	2.88	0.10	0.10	0.7%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Si-D	mg/L	3.16	3.17	0.10	0.10	0.3%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Al-T	mg/L	0.0117	0.0102	0.0030	0.0030		FALSE
LLO	LLO-28JUL25-R	2025-07-28	DOC	mg/L	2.6	2.3	0.50	0.50	12.2%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Hard-D	mg/L	67.3	67.6	0.50	0.50	0.4%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Acidity83	mg/L	1.3	1.4	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-28JUL25-R	2025-07-28	S-D	mg/L	17.3	16.7	3.0	3.0	3.5%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	S-T	mg/L	15.0	15.2	3.0	3.0	1.3%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Temp-F	C	15.5	15.5			0.0%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	SG	m	0	0				FALSE
LLO	LLO-28JUL25-R	2025-07-28	Al-D	mg/L	0.0038	0.0043	0.0030	0.0030		FALSE
LLO	LLO-28JUL25-R	2025-07-28	pH-F	pH Units	7.17	7.17			0.0%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	As-D	mg/L	0.00045	0.00046	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	As-T	mg/L	0.00047	0.00043	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ba-D	mg/L	0.0051	0.0052	0.0010	0.0010	1.9%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Ba-T	mg/L	0.0052	0.0050	0.0010	0.0010	3.9%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLO	LLO-28JUL25-R	2025-07-28	Bicarb	mg/L	40	39	1.0	1.0	2.5%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-28JUL25-R	2025-07-28	B-T	mg/L	0.054	0.053	0.050	0.050		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-28JUL25-R	2025-07-28	Cond-F	uS/cm	178.8	178.8			0.0%	FALSE
LLO	LLO-28JUL25-R	2025-07-28	Alk-T	mg/L	33	32	1.0	1.0	3.1%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Fe-D	mg/L	0.0359	0.0399	0.0010	0.0010	10.6%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Mn-D	mg/L	0.00341	0.00378	0.000050	0.000050	10.3%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Mg-T	mg/L	1.28	1.47	0.050	0.050	13.8%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Mg-D	mg/L	1.22	1.38	0.050	0.050	12.3%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Fe-T	mg/L	0.053	0.072	0.010	0.010	30.4%	TRUE
LLO	LLO-2APR25-R	2025-04-02	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Hard-T	mg/L	26.3	30.7	0.50	0.50	15.4%	FALSE
LLO	LLO-2APR25-R	2025-04-02	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Cu-T	mg/L	<0.00050	0.00061	0.00050	0.00050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Cu-D	mg/L	0.000393	0.000401	0.000050	0.000050	2.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Co-D	mg/L	0.0000196	0.0000193	0.0000050	0.0000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Pb-D	mg/L	0.0000061	0.0000070	0.0000050	0.0000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Si-D	mg/L	3.12	3.09	0.050	0.050	1.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-2APR25-R	2025-04-02	SO4-D	mg/L	16	19	1.0	1.0	17.1%	FALSE
LLO	LLO-2APR25-R	2025-04-02	SG	m	0.36	0.36			0.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Sr-D	mg/L	0.0469	0.0534	0.000050	0.000050	13.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Na-T	mg/L	2.47	2.79	0.050	0.050	12.2%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Na-D	mg/L	2.39	2.72	0.050	0.050	12.9%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Mn-T	mg/L	0.0051	0.0062	0.0010	0.0010	19.5%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Si-T	mg/L	2.96	3.08	0.10	0.10	4.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Mo-D	mg/L	0.000158	0.000153	0.000050	0.000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
LLO	LLO-2APR25-R	2025-04-02	K-T	mg/L	0.114	0.134	0.050	0.050		FALSE
LLO	LLO-2APR25-R	2025-04-02	K-D	mg/L	0.107	0.122	0.050	0.050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ni-D	mg/L	0.000076	0.000086	0.000020	0.000020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Hard-D	mg/L	27.1	29.9	0.50	0.50	9.8%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Cr-D	mg/L	<0.00010	0.00011	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	As-D	mg/L	0.000262	0.000261	0.000020	0.000020	0.4%	FALSE
LLO	LLO-2APR25-R	2025-04-02	As-T	mg/L	0.00026	0.00026	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ba-D	mg/L	0.00237	0.00264	0.000020	0.000020	10.8%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ba-T	mg/L	0.0024	0.0028	0.0010	0.0010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Al-T	mg/L	0.0396	0.0432	0.0030	0.0030	8.7%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ca-T	mg/L	8.43	9.87	0.050	0.050	15.7%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ca-D	mg/L	8.84	9.70	0.050	0.050	9.3%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
LLO	LLO-2APR25-R	2025-04-02	B-D	mg/L	0.019	0.020	0.010	0.010		FALSE
LLO	LLO-2APR25-R	2025-04-02	Bicarb	mg/L	18	19	1.0	1.0	5.4%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE

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Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LLO	LLO-2APR25-R	2025-04-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	S-D	mg/L	4.4	5.6	3.0	3.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	DOC	mg/L	3.2	3.3	0.50	0.50	3.1%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Temp-F	C	8.9	8.9			0.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	pH-F	pH Units	7.61	7.61			0.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Cond-F	uS/cm	102.9	102.9			0.0%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Alk-T	mg/L	15	16	1.0	1.0	6.5%	FALSE
LLO	LLO-2APR25-R	2025-04-02	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LLO	LLO-2APR25-R	2025-04-02	Al-D	mg/L	0.0311	0.0332	0.00050	0.00050	6.5%	FALSE
LLO	LLO-2APR25-R	2025-04-02	S-T	mg/L	4.9	5.4	3.0	3.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Zn-D	mg/L	0.00176	0.00033	0.00010	0.00010	136.8%	TRUE
LLO	LLO-2APR25-R	2025-04-02	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-2APR25-R	2025-04-02	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-2APR25-R	2025-04-02	V-D	mg/L	0.00029	0.00028	0.00020	0.00020		FALSE
LLO	LLO-2APR25-R	2025-04-02	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LLO	LLO-2APR25-R	2025-04-02	U-D	mg/L	0.0000055	0.0000050	0.0000020	0.0000020		FALSE
LLO	LLO-2APR25-R	2025-04-02	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LLO	LLO-2APR25-R	2025-04-02	Sr-T	mg/L	0.0462	0.0552	0.0010	0.0010	17.8%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Wlevel	m	1.0	1.0			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	DOC	mg/L	2.3	2.2	0.50	0.50		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	ORP-F	mV	137.3	137.3			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Turb-F	NTU	1.5	1.5			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	S-D	mg/L	9.6	9.6	3.0	3.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	S-T	mg/L	10.1	8.8	3.0	3.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Temp-F	C	23.1	23.1			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sat-F	%	105.1	105.1			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	pH-F	pH Units	7.66	7.66			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cond-F	uS/cm	145.2	145.2			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Alk-T	mg/L	41	41	1.0	1.0	0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Fe-D	mg/L	0.0372	0.0379	0.0050	0.0050	1.9%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ca-T	mg/L	14.1	13.8	0.050	0.050	2.2%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ca-D	mg/L	13.7	13.5	0.050	0.050	1.5%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cu-D	mg/L	0.00040	0.00042	0.00020	0.00020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mg-T	mg/L	1.88	1.73	0.050	0.050	8.3%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Hard-T	mg/L	42.9	41.7	0.50	0.50	2.8%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Fe-T	mg/L	0.053	0.049	0.010	0.010	7.8%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Al-D	mg/L	0.0084	0.0104	0.0030	0.0030		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mg-D	mg/L	1.79	1.71	0.050	0.050	4.6%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mn-D	mg/L	0.0012	0.0013	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mn-T	mg/L	0.0040	0.0038	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-22JUL25-R	2025-07-22	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Al-T	mg/L	0.0091	0.0094	0.0030	0.0030		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	DO-F	mg/L	9.00	9.00			0.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	SO4-D	mg/L	32	31	1.0	1.0	3.2%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sr-T	mg/L	0.0772	0.0740	0.0010	0.0010	4.2%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sr-D	mg/L	0.0753	0.0754	0.0010	0.0010	0.1%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Na-D	mg/L	13.5	12.8	0.050	0.050	5.3%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Si-T	mg/L	2.25	2.15	0.10	0.10	4.5%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Si-D	mg/L	2.09	2.06	0.10	0.10	1.4%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	K-T	mg/L	0.272	0.257	0.050	0.050	5.7%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	K-D	mg/L	0.266	0.267	0.050	0.050	0.4%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	P-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Hard-D	mg/L	41.5	40.8	0.50	0.50	1.7%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Na-T	mg/L	14.2	13.0	0.050	0.050	8.8%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	As-D	mg/L	0.00090	0.00091	0.00010	0.00010	1.1%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	As-T	mg/L	0.00095	0.00090	0.00010	0.00010	5.4%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ba-D	mg/L	0.0042	0.0042	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Ba-T	mg/L	0.0045	0.0043	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Bicarb	mg/L	49	50	1.0	1.0	2.0%	FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	B-D	mg/L	0.059	0.057	0.050	0.050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	B-T	mg/L	0.058	0.057	0.050	0.050		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-22JUL25-R	2025-07-22	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	ORP-F	mV	210.5	210.5			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	S-T	mg/L	4.6	5.1	3	3		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	S-D	mg/L	3.5	3.4	3	3		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Turb-F	NTU	-0.25	-0.25				FALSE
LQL1	LQL1-24APR25-R	2025-04-24	DOC	mg/L	2.9	3	0.5	0.5	3.4%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Mg-T	mg/L	1.21	1.18	0.05	0.05	2.5%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Hard-D	mg/L	28.1	27.6	0.5	0.5	1.8%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Mo-D	mg/L	0.000132	0.000147	0.00005	0.00005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Fe-T	mg/L	0.075	0.073	0.01	0.01	2.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Se-T	mg/L	0.0001	0.0001	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	K-T	mg/L	0.183	0.174	0.05	0.05		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	P-T	mg/L	0.0042	0.0041	0.003	0.003		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	pH-L	pH Units	6.84	6.78			0.9%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	N-NO23	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	U-D	mg/L	0.00001	0.000011	0.000002	0.000002	9.5%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-24APR25-R	2025-04-24	Mn-T	mg/L	0.0048	0.0048	0.001	0.001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Mn-D	mg/L	0.00254	0.00252	0.00005	0.00005	0.8%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Mg-D	mg/L	1.18	1.2	0.05	0.05	1.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ni-D	mg/L	0.000107	0.000094	0.00002	0.00002	12.9%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	SO4-D	mg/L	14	14	1	1	0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Si-T	mg/L	2.4	2.35	0.1	0.1	2.1%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Na-D	mg/L	6.23	6.23	0.05	0.05	0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Na-T	mg/L	6.34	6.19	0.05	0.05	2.4%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	V-D	mg/L	<0.00020	0.00025	0.0002	0.0002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sr-T	mg/L	0.0453	0.0448	0.001	0.001	1.1%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	K-D	mg/L	0.161	0.167	0.05	0.05		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Si-D	mg/L	2.19	2.14	0.05	0.05	2.3%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sr-D	mg/L	0.0456	0.0437	0.00005	0.00005	4.3%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Al-T	mg/L	0.0328	0.0312	0.003	0.003	5.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ba-T	mg/L	0.0034	0.0034	0.001	0.001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ba-D	mg/L	0.00327	0.00325	0.00002	0.00002	0.6%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	As-T	mg/L	0.00068	0.00072	0.0001	0.0001	5.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	As-D	mg/L	0.000627	0.000651	0.00002	0.00002	3.8%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Zn-D	mg/L	0.0026	0.0329	0.0001	0.0001	170.7%	TRUE
LQL1	LQL1-24APR25-R	2025-04-24	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sb-D	mg/L	0.000026	0.000028	0.00002	0.00002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cond-F	uS/cm	99.1	99.1			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Al-D	mg/L	0.0223	0.0228	0.0005	0.0005	2.2%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Alk-T	mg/L	31	30	1	1	3.3%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	DO-F	mg/L	11.26	11.26			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Fe-D	mg/L	0.044	0.0435	0.001	0.001	1.1%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	pH-F	pH Units	6.54	6.54			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Se-D	mg/L	0.000088	0.000085	0.00004	0.00004		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Wlevel	m	1	1			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Temp-F	C	10.91	10.91			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Hard-T	mg/L	29.6	28.8	0.5	0.5	2.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cu-T	mg/L	0.0006	0.00056	0.0005	0.0005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Sat-F	%	101.8	101.8			0.0%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Co-D	mg/L	0.000025	0.000029	0.000005	0.000005	14.8%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Bicarb	mg/L	37	36	1	1	2.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cr-D	mg/L	0.0001	0.0001	0.0001	0.0001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cu-D	mg/L	0.000536	0.000532	0.00005	0.00005	0.7%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ca-T	mg/L	9.85	9.6	0.05	0.05	2.6%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Ca-D	mg/L	9.31	9.08	0.05	0.05	2.5%	FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	B-D	mg/L	0.028	0.027	0.01	0.01		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	B-T	mg/L	<0.050	<0.050	0.05	0.05		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-24APR25-R	2025-04-24	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Si-T	mg/L	2.32	2.29	0.10	0.10	1.3%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Si-D	mg/L	2.27	2.27	0.10	0.10	0.0%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-29APR25-R	2025-04-29	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	K-T	mg/L	0.168	0.181	0.050	0.050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	K-D	mg/L	0.175	0.180	0.050	0.050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	P-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	N-NO23	mg/L	0.046	<0.020	0.020	0.020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	N-NO3	mg/L	0.046	<0.020	0.020	0.020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Na-D	mg/L	6.45	6.85	0.050	0.050	6.0%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	SO4-D	mg/L	13	13	1.0	1.0	0.0%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sr-T	mg/L	0.0486	0.0473	0.0010	0.0010	2.7%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sr-D	mg/L	0.0467	0.0464	0.0010	0.0010	0.6%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Na-T	mg/L	6.64	6.56	0.050	0.050	1.2%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ba-T	mg/L	0.0035	0.0035	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ba-D	mg/L	0.0034	0.0034	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	As-T	mg/L	0.00076	0.00072	0.00010	0.00010	5.4%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	As-D	mg/L	0.00075	0.00071	0.00010	0.00010	5.5%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Al-T	mg/L	0.0363	0.0292	0.0030	0.0030	21.7%	TRUE
LQL1	LQL1-29APR25-R	2025-04-29	Al-D	mg/L	0.0226	0.0233	0.0030	0.0030	3.1%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	S-T	mg/L	3.9	4.7	3.0	3.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	S-D	mg/L	4.2	5.0	3.0	3.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Acidity83	mg/L	1.3	14.3	1.0	1.0	166.7%	TRUE
LQL1	LQL1-29APR25-R	2025-04-29	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Hard-D	mg/L	30.0	29.6	0.50	0.50	1.3%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	DOC	mg/L	2.7	2.7	0.50	0.50	0.0%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Alk-T	mg/L	32	31	1.0	1.0	3.2%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cu-D	mg/L	0.00056	0.00057	0.00020	0.00020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Mn-D	mg/L	0.0019	0.0019	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Mg-T	mg/L	1.20	1.19	0.050	0.050	0.8%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Mg-D	mg/L	1.19	1.23	0.050	0.050	3.3%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Fe-T	mg/L	0.079	0.073	0.010	0.010	7.9%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Fe-D	mg/L	0.0475	0.0463	0.0050	0.0050	2.6%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Hard-T	mg/L	29.9	29.4	0.50	0.50	1.7%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Bicarb	mg/L	39	37	1.0	1.0	5.3%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cu-T	mg/L	0.00059	0.00063	0.00050	0.00050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-29APR25-R	2025-04-29	Mn-T	mg/L	0.0046	0.0045	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ca-T	mg/L	9.98	9.80	0.050	0.050	1.8%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Ca-D	mg/L	10.0	9.82	0.050	0.050	1.8%	FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	B-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LQL1	LQL1-29APR25-R	2025-04-29	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	S-T	mg/L	<3.0	<3.0	3	3		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cr-T	mg/L	0.00026	0.00022	0.0001	0.0001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Co-T	mg/L	0.0000646	0.0000545	0.000005	0.000005	17.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Co-D	mg/L	0.0000285	0.0000272	0.000005	0.000005	4.7%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	DOC	mg/L	4.7	4.9	0.5	0.5	4.2%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cr-D	mg/L	0.00018	0.00017	0.0001	0.0001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ca-T	mg/L	8.39	8.73	0.05	0.05	4.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cu-D	mg/L	0.000731	0.000721	0.00005	0.00005	1.4%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	S-D	mg/L	<3.0	<3.0	3	3		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Carb	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Hard-D	mg/L	26	25.5	0.5	0.5	1.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	ORP-F	mV	202.1	202.1			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Turb-F	NTU	1.5	1.5			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cu-T	mg/L	0.000837	0.000821	0.00005	0.00005	1.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ca-D	mg/L	8.65	8.49	0.05	0.05	1.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Hard-T	mg/L	25.5	26.3	0.5	0.5	3.1%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Fe-D	mg/L	0.058	0.0562	0.001	0.001	3.2%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Alk-T	mg/L	23	23	1	1	0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	DO-F	mg/L	10.68	10.68			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cond-F	uS/cm	64.4	64.4			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	pH-F	pH Units	6.99	6.99			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sat-F	%	91.4	91.4			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Wlevel	m	1	1			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Temp-F	C	8.39	8.39			0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Al-T	mg/L	0.0841	0.0723	0.0005	0.0005	15.1%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	As-T	mg/L	0.000494	0.000503	0.00002	0.00002	1.8%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	As-D	mg/L	0.000441	0.000438	0.00002	0.00002	0.7%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cd-T	mg/L	0.0000071	0.0000072	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ba-D	mg/L	0.00302	0.00296	0.00002	0.00002	2.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ba-T	mg/L	0.00328	0.00325	0.00002	0.00002	0.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Bicarb	mg/L	28	29	1	1	3.5%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	B-T	mg/L	0.022	0.022	0.01	0.01		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	B-D	mg/L	0.02	0.02	0.01	0.01		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Cd-D	mg/L	0.0000062	0.000005	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	N-NO23	mg/L	<0.020	<0.020	0.02	0.02		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	N-TKN	mg/L	0.16	0.1	0.02	0.02	46.2%	TRUE
LQL1	LQL1-4NOV25-R	2025-11-04	Ni-D	mg/L	0.000126	0.000142	0.00002	0.00002	11.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sr-D	mg/L	0.0334	0.0328	0.00005	0.00005	1.8%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sr-T	mg/L	0.0345	0.0343	0.00005	0.00005	0.6%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	SO4-D	mg/L	8.7	8.7	1	1	0.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Na-D	mg/L	3.49	3.55	0.05	0.05	1.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-4NOV25-R	2025-11-04	Ti-T	mg/L	0.00323	0.00183	0.0005	0.0005	55.3%	TRUE
LQL1	LQL1-4NOV25-R	2025-11-04	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	N-T	mg/L	0.164	0.103	0.02	0.02	45.7%	TRUE
LQL1	LQL1-4NOV25-R	2025-11-04	Turb	NTU	2.2	1.8	0.1	0.1	20.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	U-D	mg/L	0.0000069	0.0000067	0.000002	0.000002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	U-T	mg/L	0.0000089	0.0000089	0.000002	0.000002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	V-D	mg/L	0.00028	0.0003	0.0002	0.0002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	V-T	mg/L	0.00052	0.00043	0.0002	0.0002		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Zn-D	mg/L	0.00252	0.00074	0.0001	0.0001	109.2%	TRUE
LQL1	LQL1-4NOV25-R	2025-11-04	Zn-T	mg/L	0.0008	0.00077	0.0001	0.0001	3.8%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Al-D	mg/L	0.041	0.0399	0.0005	0.0005	2.7%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ti-D	mg/L	0.00058	0.00064	0.0005	0.0005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ni-T	mg/L	0.00016	0.000172	0.00002	0.00002	7.2%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Pb-D	mg/L	0.0000069	0.0000053	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Pb-T	mg/L	0.0000119	0.0000106	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Li-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mg-D	mg/L	1.06	1.05	0.05	0.05	0.9%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mg-T	mg/L	1.11	1.08	0.05	0.05	2.7%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mn-D	mg/L	0.00376	0.00375	0.00005	0.00005	0.3%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mn-T	mg/L	0.00917	0.00855	0.00005	0.00005	7.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Na-T	mg/L	3.97	3.86	0.05	0.05	2.8%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mo-T	mg/L	0.000157	0.000149	0.00005	0.00005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Fe-T	mg/L	0.122	0.108	0.001	0.001	12.2%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	pH-L	pH Units	6.68	6.64			0.6%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	P-D	mg/L	<0.0030	0.003	0.003	0.003		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	K-D	mg/L	0.183	0.182	0.05	0.05		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	K-T	mg/L	0.193	0.184	0.05	0.05		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Se-D	mg/L	0.000088	0.000077	0.00004	0.00004		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Se-T	mg/L	0.000085	0.000081	0.00004	0.00004		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Si-D	mg/L	2.93	2.9	0.05	0.05	1.0%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Si-T	mg/L	2.77	2.9	0.05	0.05	4.6%	FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
LQL1	LQL1-4NOV25-R	2025-11-04	Mo-D	mg/L	0.000212	0.00016	0.00005	0.00005		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ni-D	mg/L	0.000109	0.000121	0.000020	0.000020	10.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Si-D	mg/L	1.99	2.03	0.050	0.050	2.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mn-D	mg/L	0.00286	0.00250	0.000050	0.000050	13.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	SO4-D	mg/L	27	26	1.0	1.0	3.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sr-T	mg/L	0.0743	0.0733	0.000050	0.000050	1.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sr-D	mg/L	0.0690	0.0671	0.000050	0.000050	2.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Na-T	mg/L	12.3	12.1	0.050	0.050	1.6%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Na-D	mg/L	12.0	11.9	0.050	0.050	0.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Si-T	mg/L	2.31	2.36	0.050	0.050	2.1%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Se-T	mg/L	0.000088	0.000077	0.000040	0.000040		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Se-D	mg/L	0.000067	0.000067	0.000040	0.000040		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	K-T	mg/L	0.294	0.293	0.050	0.050	0.3%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	K-D	mg/L	0.269	0.270	0.050	0.050	0.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	pH-L	pH Units	7.35	7.10			3.5%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ni-T	mg/L	0.000127	0.000118	0.000020	0.000020	7.3%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mo-T	mg/L	0.000182	0.000181	0.000050	0.000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mo-D	mg/L	0.000175	0.000199	0.000050	0.000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Zn-T	mg/L	0.00102	0.00052	0.00010	0.00010	64.9%	TRUE
LQL1	LQL1-8OCT25-R	2025-10-08	ORP-F	mV	82.1	82.1			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Turb-F	NTU	1.5	1.5			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Hard-D	mg/L	38.2	38.0	0.50	0.50	0.5%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	S-D	mg/L	8.2	8.4	3.0	3.0		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	S-T	mg/L	8.5	9.0	3.0	3.0		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Wlevel	m	1	1			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mg-T	mg/L	1.65	1.64	0.050	0.050	0.6%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Zn-D	mg/L	0.00058	0.00153	0.00010	0.00010	90.0%	TRUE
LQL1	LQL1-8OCT25-R	2025-10-08	V-T	mg/L	0.00026	0.00028	0.00020	0.00020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	LQL1-8OCT25-R	2025-10-08	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	U-T	mg/L	0.0000078	0.0000087	0.0000020	0.0000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	U-D	mg/L	0.0000063	0.0000055	0.0000020	0.0000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ti-T	mg/L	0.00072	0.00075	0.00050	0.00050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Temp-F	C	13.9	13.9			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Al-T	mg/L	0.0262	0.0274	0.00050	0.00050	4.5%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	As-D	mg/L	0.000710	0.000686	0.000020	0.000020	3.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	As-T	mg/L	0.000782	0.000789	0.000020	0.000020	0.9%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ba-D	mg/L	0.00411	0.00421	0.000020	0.000020	2.4%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ba-T	mg/L	0.00444	0.00450	0.000020	0.000020	1.3%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mn-T	mg/L	0.0185	0.0184	0.000050	0.000050	0.5%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cond-F	uS/cm	112.5	112.5			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	B-T	mg/L	0.051	0.053	0.010	0.010	3.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	B-D	mg/L	0.046	0.046	0.010	0.010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cd-T	mg/L	0.0000067	0.0000062	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ca-D	mg/L	12.8	12.7	0.050	0.050	0.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Ca-T	mg/L	13.0	13.1	0.050	0.050	0.8%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cu-T	mg/L	0.000733	0.000648	0.000050	0.000050	12.3%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Mg-D	mg/L	1.52	1.52	0.050	0.050	0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Li-T	mg/L	0.00077	0.00068	0.00050	0.00050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Li-D	mg/L	0.00077	0.00084	0.00050	0.00050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Pb-T	mg/L	0.0000119	0.0000058	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Fe-T	mg/L	0.0978	0.100	0.0010	0.0010	2.2%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Fe-D	mg/L	0.0413	0.0406	0.0010	0.0010	1.7%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Al-D	mg/L	0.0118	0.0128	0.00050	0.00050	8.1%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	DO-F	mg/L	8.75	8.75			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cu-D	mg/L	0.000553	0.000602	0.000050	0.000050	8.5%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Co-T	mg/L	0.0000352	0.0000378	0.0000050	0.0000050	7.1%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Co-D	mg/L	0.0000131	0.0000136	0.0000050	0.0000050		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cr-T	mg/L	0.00010	<0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cr-D	mg/L	<0.00010	0.00010	0.00010	0.00010		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Sat-F	%	85.1	85.1			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	pH-F	pH Units	7.31	7.31			0.0%	FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
LQL1	LQL1-8OCT25-R	2025-10-08	Hard-T	mg/L	39.2	39.5	0.50	0.50	0.8%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Si-D	mg/L	2.00	2.07	0.050	0.050	3.4%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	K-D	mg/L	0.170	0.176	0.050	0.050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	SO4-D	mg/L	17	18	1.0	1.0	5.7%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sr-T	mg/L	0.0478	0.0480	0.000050	0.000050	0.4%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sr-D	mg/L	0.0467	0.0482	0.000050	0.000050	3.2%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Na-T	mg/L	9.00	8.50	0.050	0.050	5.7%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Na-D	mg/L	8.47	8.78	0.050	0.050	3.6%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Si-T	mg/L	2.14	2.11	0.050	0.050	1.4%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mn-D	mg/L	0.0129	0.0130	0.000050	0.000050	0.8%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	K-T	mg/L	0.174	0.169	0.050	0.050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	P-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	pH-L	pH Units	6.86	6.95			1.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ni-T	mg/L	0.000054	0.000062	0.000020	0.000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ni-D	mg/L	0.000087	0.000059	0.000020	0.000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mo-T	mg/L	0.000192	0.000168	0.000050	0.000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mo-D	mg/L	0.000174	0.000240	0.000050	0.000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Se-D	mg/L	0.000044	0.000049	0.000040	0.000040		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ1	MLQ1-21OCT25-R	2025-10-21	Se-T	mg/L	0.000041	0.000045	0.000040	0.000040		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	ORP-F	mV	106.3	106.3			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	DOC	mg/L	1.9	1.9	0.50	0.50		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Hard-D	mg/L	30.9	30.5	0.50	0.50	1.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	S-D	mg/L	6.6	5.9	3.0	3.0		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Zn-T	mg/L	0.00124	0.00064	0.00010	0.00010	63.8%	TRUE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	U-T	mg/L	0.0000040	0.0000034	0.0000020	0.0000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	U-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Turb	NTU	0.29	0.52	0.10	0.10	56.8%	TRUE
MLQ1	MLQ1-21OCT25-R	2025-10-21	N-T	mg/L	0.125	0.235	0.020	0.020	61.1%	TRUE
MLQ1	MLQ1-21OCT25-R	2025-10-21	N-TKN	mg/L	0.12	0.24	0.020	0.020	66.7%	TRUE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mg-T	mg/L	1.33	1.31	0.050	0.050	1.5%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Zn-D	mg/L	0.00133	0.00151	0.00010	0.00010	12.7%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Al-D	mg/L	0.00419	0.00448	0.00050	0.00050	6.7%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mn-T	mg/L	0.0290	0.0297	0.000050	0.000050	2.4%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ba-T	mg/L	0.00173	0.00177	0.000020	0.000020	2.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ba-D	mg/L	0.00160	0.00167	0.000020	0.000020	4.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	As-T	mg/L	0.000169	0.000167	0.000020	0.000020	1.2%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	As-D	mg/L	0.000152	0.000166	0.000020	0.000020	8.8%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Al-T	mg/L	0.00715	0.00729	0.00050	0.00050	1.9%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Alk-T	mg/L	31	33	1.0	1.0	6.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	DO-F	mg/L	8.02	8.02			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cond-F	uS/cm	96	96			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	pH-F	pH Units	7	7			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sat-F	%	73.3	73.3			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Wlevel	m	1	1			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Temp-F	C	11.4	11.4			0.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Co-T	mg/L	0.0000128	0.0000132	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Mg-D	mg/L	1.30	1.29	0.050	0.050	0.8%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Fe-T	mg/L	0.0384	0.0396	0.0010	0.0010	3.1%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Fe-D	mg/L	0.0153	0.0141	0.0010	0.0010	8.2%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Hard-T	mg/L	31.8	31.4	0.50	0.50	1.3%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Bicarb	mg/L	38	41	1.0	1.0	7.6%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cu-D	mg/L	0.000428	0.000424	0.000050	0.000050	0.9%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	S-T	mg/L	6.2	5.9	3.0	3.0		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Co-D	mg/L	0.0000079	0.0000092	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cr-T	mg/L	0.00013	<0.00010	0.00010	0.00010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cr-D	mg/L	0.00013	0.00013	0.00010	0.00010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ca-T	mg/L	10.5	10.4	0.050	0.050	1.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Ca-D	mg/L	10.2	10.1	0.050	0.050	1.0%	FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	B-D	mg/L	0.036	0.035	0.010	0.010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	B-T	mg/L	0.034	0.033	0.010	0.010		FALSE
MLQ1	MLQ1-21OCT25-R	2025-10-21	Cu-T	mg/L	0.000470	0.000458	0.000050	0.000050	2.6%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	B-D	mg/L	0.029	0.028	0.01	0.01		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ1	MLQ1-23APR25-R	2025-04-23	Cu-D	mg/L	0.000622	0.000612	0.00005	0.00005	1.6%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mo-D	mg/L	0.000218	0.000867	0.00005	0.00005	119.6%	TRUE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mn-T	mg/L	0.0039	0.0037	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mn-D	mg/L	0.00266	0.00281	0.00005	0.00005	5.5%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mg-T	mg/L	1.08	1.06	0.05	0.05	1.9%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Mg-D	mg/L	1.31	1.35	0.05	0.05	3.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Fe-T	mg/L	0.024	0.023	0.01	0.01		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Fe-D	mg/L	0.0194	0.0184	0.001	0.001	5.3%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cu-T	mg/L	0.00058	0.00051	0.0005	0.0005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	N-NO23	mg/L	<0.020	<0.020	0.02	0.02		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Co-D	mg/L	0.000014	0.000014	0.000005	0.000005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cr-D	mg/L	<0.00010	0.00015	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ca-T	mg/L	9.24	9.06	0.05	0.05	2.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ca-D	mg/L	10.7	10.6	0.05	0.05	0.9%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	B-T	mg/L	<0.050	<0.050	0.05	0.05		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Hard-T	mg/L	27.5	27	0.5	0.5	1.8%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sr-D	mg/L	0.0422	0.0429	0.00005	0.00005	1.6%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Zn-D	mg/L	0.00164	0.00438	0.0001	0.0001	91.0%	TRUE
MLQ1	MLQ1-23APR25-R	2025-04-23	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	V-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	U-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Tl-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ni-D	mg/L	0.000067	0.000081	0.00002	0.00002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sr-T	mg/L	0.0377	0.0366	0.001	0.001	3.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Na-T	mg/L	6.28	6.08	0.05	0.05	3.2%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Na-D	mg/L	7.61	7.61	0.05	0.05	0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Si-T	mg/L	1.78	1.74	0.1	0.1	2.3%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Si-D	mg/L	2.06	2.02	0.05	0.05	2.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Se-D	mg/L	0.000067	0.000054	0.00004	0.00004		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	K-T	mg/L	0.118	0.117	0.05	0.05		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	K-D	mg/L	0.138	0.142	0.05	0.05		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	P-T	mg/L	<0.0030	0.0031	0.003	0.003		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	pH-L	pH Units	6.79	6.92			1.9%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	SO4-D	mg/L	14	14	1	1	0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Temp-F	C	11.831	11.831			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	As-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Bicar	mg/L	36	36	1	1	0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	As-D	mg/L	0.000117	0.000117	0.00002	0.00002	0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sb-D	mg/L	<0.000020	0.000024	0.00002	0.00002		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Al-T	mg/L	0.0142	0.0144	0.003	0.003		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Al-D	mg/L	0.014	0.0145	0.0005	0.0005	3.5%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Alk-T	mg/L	29	30	1	1	3.4%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMD1	LMD2	RPD %	True RPD >20%
MLQ1	MLQ1-23APR25-R	2025-04-23	DO-F	mg/L	11	11			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Cond-F	uS/cm	99.2	99.2			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	pH-F	pH Units	6.55	6.55			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ba-T	mg/L	0.0013	0.0013	0.001	0.001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Wlevel	m	1	1			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Ba-D	mg/L	0.00145	0.0014	0.00002	0.00002	3.5%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	S-T	mg/L	4.4	4.5	3	3		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	S-D	mg/L	7	5.4	3	3		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Carb	mg/L	<1.0	<1.0	1	1		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Hard-D	mg/L	32.1	31.9	0.5	0.5	0.6%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	DOC	mg/L	2	2	0.5	0.5		FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	ORP-F	mV	167.2	167.2			0.0%	FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Turb-F	NTU	-0.17	-0.17				FALSE
MLQ1	MLQ1-23APR25-R	2025-04-23	Sat-F	%	101.7	101.7			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	Turb-F	NTU	2.5	2.5			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	DO-F	mg/L	7.00	7.00			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	pH-F	pH Units	7.95	7.95			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	Sat-F	%	83.9	83.9			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	Wlevel	m	1.0	1.0			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	Temp-F	C	23.7	23.7			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	ORP-F	mV	182.2	182.2			0.0%	FALSE
MLQ1	MLQ1-29JUL25-R	2025-07-29	Cond-F	uS/cm	210.3	210.3			0.0%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mg-D	mg/L	2.36	2.38	0.050	0.050	0.8%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mg-T	mg/L	2.14	2.06	0.050	0.050	3.8%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mn-D	mg/L	<0.0010	0.0012	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mn-T	mg/L	0.0066	0.0061	0.0010	0.0010	7.9%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	P-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Na-T	mg/L	20.0	19.2	0.050	0.050	4.1%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Cl-D	mg/L	1.0	<1.0	1.0	1.0		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Na-D	mg/L	21.0	21.8	0.050	0.050	3.7%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Sr-D	mg/L	0.107	0.109	0.0010	0.0010	1.9%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Sr-T	mg/L	0.113	0.108	0.0010	0.0010	4.5%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	SO4-D	mg/L	53	53	1.0	1.0	0.0%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Cu-T	mg/L	<0.00050	0.00061	0.00050	0.00050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Hard-T	mg/L	49.6	47.1	0.50	0.50	5.2%	FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Fe-D	mg/L	0.0218	0.0220	0.0050	0.0050		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Fe-T	mg/L	0.032	0.030	0.010	0.010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Cu-D	mg/L	0.00045	0.00047	0.00020	0.00020		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-29JUL25-R	2025-07-29	Si-T	mg/L	1.76	1.67	0.10	0.10	5.2%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MQL4	MQL4-29JUL25-R	2025-07-29	Al-T	mg/L	0.0116	0.0121	0.0030	0.0030		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Alk-T	mg/L	42	42	1.0	1.0	0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	DO-F	mg/L	6.89	6.89			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Cond-F	uS/cm	210.2	210.2			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	pH-F	pH Units	7.97	7.97			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Sat-F	%	80.6	80.6			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	K-D	mg/L	0.349	0.357	0.050	0.050	2.3%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Wlevel	m	4.0	4.0			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	S-T	mg/L	16.8	17.0	3.0	3.0	1.2%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	S-D	mg/L	18.7	19.5	3.0	3.0	4.2%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Hard-D	mg/L	53.1	53.2	0.50	0.50	0.2%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	DOC	mg/L	2.2	2.1	0.50	0.50		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	ORP-F	mV	181.7	181.7			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Turb-F	NTU	2.4	2.4			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	K-T	mg/L	0.327	0.315	0.050	0.050	3.7%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Temp-F	C	23.5	23.5			0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ca-T	mg/L	16.3	15.5	0.050	0.050	5.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Si-D	mg/L	2.17	2.12	0.10	0.10	2.3%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Al-D	mg/L	0.0125	0.0127	0.0030	0.0030		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	As-D	mg/L	0.00013	0.00015	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ca-D	mg/L	17.4	17.4	0.050	0.050	0.0%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ba-T	mg/L	0.0024	0.0022	0.0010	0.0010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	As-T	mg/L	0.00018	0.00017	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Ba-D	mg/L	0.0022	0.0023	0.0010	0.0010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Bicarb	mg/L	51	52	1.0	1.0	1.9%	FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	B-T	mg/L	0.070	0.067	0.050	0.050		FALSE
MQL4	MQL4-29JUL25-R	2025-07-29	B-D	mg/L	0.070	0.071	0.050	0.050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Zn-D	mg/L	0.00107	0.00151	0.00010	0.00010	34.1%	TRUE
MQL4	MQL4-30APR25-R	2025-04-30	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	V-D	mg/L	0.00035	0.00037	0.00020	0.00020		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	U-D	mg/L	0.0000080	0.0000140	0.0000020	0.0000020	54.5%	TRUE
MQL4	MQL4-30APR25-R	2025-04-30	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Co-D	mg/L	0.0000140	0.0000310	0.0000050	0.0000050	75.6%	TRUE
MQL4	MQL4-30APR25-R	2025-04-30	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Ca-T	mg/L	8.34	8.48	0.050	0.050	1.7%	FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Ca-D	mg/L	9.08	9.15	0.050	0.050	0.8%	FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Ba-D	mg/L	0.00120	0.00134	0.000020	0.000020	11.0%	FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Cd-D	mg/L	<0.0000050	0.0000130	0.0000050	0.0000050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Hard-T	mg/L	25.0	25.5	0.50	0.50	2.0%	FALSE
MQL4	MQL4-30APR25-R	2025-04-30	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MQL4	MQL4-30APR25-R	2025-04-30	Bicarb	mg/L	33	34	1.0	1.0	3.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ4	MLQ4-30APR25-R	2025-04-30	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ba-T	mg/L	0.0011	0.0011	0.0010	0.0010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ti-D	mg/L	<0.00050	0.00058	0.00050	0.00050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mg-T	mg/L	1.01	1.04	0.050	0.050	2.9%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	K-D	mg/L	0.107	0.109	0.050	0.050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	P-T	mg/L	0.0030	0.0034	0.0030	0.0030		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ni-D	mg/L	0.000090	0.000122	0.000020	0.000020	30.2%	TRUE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mo-D	mg/L	0.000172	0.000179	0.000050	0.000050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Cu-D	mg/L	0.000553	0.00111	0.000050	0.000050	67.0%	TRUE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mn-D	mg/L	0.00245	0.00290	0.000050	0.000050	16.8%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mg-D	mg/L	1.09	1.10	0.050	0.050	0.9%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Pb-D	mg/L	0.0000060	0.0000190	0.0000050	0.0000050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Fe-T	mg/L	0.024	0.024	0.010	0.010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Fe-D	mg/L	0.0176	0.0324	0.0010	0.0010	59.2%	TRUE
MLQ4	MLQ4-30APR25-R	2025-04-30	B-D	mg/L	0.021	0.021	0.010	0.010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Mn-T	mg/L	0.0040	0.0040	0.0010	0.0010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Hard-D	mg/L	27.2	27.4	0.50	0.50	0.7%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	DOC	mg/L	2.1	2.1	0.50	0.50		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	ORP-F	mV	150	150			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Turb-F	NTU	0.57	0.57			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Si-D	mg/L	1.81	1.83	0.050	0.050	1.1%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Si-T	mg/L	1.78	1.80	0.10	0.10	1.1%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ag-D	mg/L	<0.0000050	0.0000050	0.0000050	0.0000050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Na-T	mg/L	4.58	4.70	0.050	0.050	2.6%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sr-D	mg/L	0.0300	0.0300	0.000050	0.000050	0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sr-T	mg/L	0.0294	0.0297	0.0010	0.0010	1.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	SO4-D	mg/L	9.8	9.9	1.0	1.0	1.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ti-D	mg/L	<0.0000020	0.0000020	0.0000020	0.0000020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	K-T	mg/L	0.099	0.101	0.050	0.050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	As-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Alk-T	mg/L	27	27	1.0	1.0	0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	As-D	mg/L	0.000109	0.000143	0.000020	0.000020	27.0%	TRUE
MLQ4	MLQ4-30APR25-R	2025-04-30	Na-D	mg/L	4.95	4.93	0.050	0.050	0.4%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Al-D	mg/L	0.0119	0.0183	0.00050	0.00050	42.4%	TRUE
MLQ4	MLQ4-30APR25-R	2025-04-30	DO-F	mg/L	11.07	11.07			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Cond-F	uS/cm	72.5	72.5			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Se-D	mg/L	0.000063	0.000063	0.000040	0.000040		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Al-T	mg/L	0.0137	0.0141	0.0030	0.0030		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	S-D	mg/L	3.3	3.0	3.0	3.0		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	pH-F	pH Units	7.07	7.07			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Temp-F	C	11.89	11.89			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Wlevel	m	4	4			0.0%	FALSE
MLQ4	MLQ4-30APR25-R	2025-04-30	Sat-F	%	102.6	102.6			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cr-T	mg/L	0.00011	0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ9	MLQ9-16OCT25-R	2025-10-16	Bicarb	mg/L	38	40	1.0	1.0	5.1%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	B-T	mg/L	0.038	0.037	0.010	0.010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	B-D	mg/L	0.036	0.036	0.010	0.010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ba-T	mg/L	0.00175	0.00172	0.000020	0.000020	1.7%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cr-D	mg/L	0.00011	0.00011	0.00010	0.00010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ba-D	mg/L	0.00165	0.00166	0.000020	0.000020	0.6%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Co-D	mg/L	0.0000051	0.0000071	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Co-T	mg/L	0.0000102	0.0000108	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cu-D	mg/L	0.000413	0.000407	0.000050	0.000050	1.5%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cu-T	mg/L	0.000439	0.000433	0.000050	0.000050	1.4%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Hard-T	mg/L	31.1	31.5	0.50	0.50	1.3%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Fe-D	mg/L	0.0125	0.0123	0.0010	0.0010	1.6%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Fe-T	mg/L	0.0316	0.0325	0.0010	0.0010	2.8%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	ORP-F	mV	55.8	55.8			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ca-D	mg/L	10.6	10.9	0.050	0.050	2.8%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	pH-F	pH Units	7.3	7.3			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	DOC	mg/L	2.2	2.0	0.50	0.50		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	S-D	mg/L	6.5	6.6	3.0	3.0		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	S-T	mg/L	6.3	6.6	3.0	3.0		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Temp-F	C	12.3	12.3			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sat-F	%	71.1	71.1			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cond-F	uS/cm	87.2	87.2			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	DO-F	mg/L	7.74	7.74			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Alk-T	mg/L	31	33	1.0	1.0	6.3%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Al-D	mg/L	0.00513	0.00478	0.00050	0.00050	7.1%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Al-T	mg/L	0.00662	0.00736	0.00050	0.00050	10.6%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	As-D	mg/L	0.000165	0.000159	0.000020	0.000020	3.7%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	As-T	mg/L	0.000169	0.000166	0.000020	0.000020	1.8%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Wlevel	m	9	9			0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	N-TKN	mg/L	0.13	0.13	0.020	0.020	0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sr-D	mg/L	0.0503	0.0504	0.000050	0.000050	0.2%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sr-T	mg/L	0.0501	0.0491	0.000050	0.000050	2.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	SO4-D	mg/L	19	19	1.0	1.0	0.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Na-D	mg/L	9.77	9.48	0.050	0.050	3.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	N-T	mg/L	0.132	0.131	0.020	0.020	0.8%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Turb	NTU	0.60	0.86	0.10	0.10	35.6%	TRUE
MLQ9	MLQ9-16OCT25-R	2025-10-16	U-D	mg/L	0.0000034	0.0000036	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	U-T	mg/L	0.0000030	0.0000034	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Zn-D	mg/L	0.00134	0.00098	0.00010	0.00010	31.0%	TRUE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Zn-T	mg/L	0.00050	0.00017	0.00010	0.00010		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Hard-D	mg/L	32.0	32.6	0.50	0.50	1.9%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mg-D	mg/L	1.33	1.31	0.050	0.050	1.5%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mg-T	mg/L	1.29	1.27	0.050	0.050	1.6%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mn-D	mg/L	0.00527	0.00519	0.000050	0.000050	1.5%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mn-T	mg/L	0.0211	0.0219	0.000050	0.000050	3.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mo-D	mg/L	0.000226	0.000194	0.000050	0.000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Mo-T	mg/L	0.000172	0.000180	0.000050	0.000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ni-D	mg/L	0.000052	0.000044	0.000020	0.000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ni-T	mg/L	0.000062	0.000057	0.000020	0.000020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Na-T	mg/L	9.27	9.41	0.050	0.050	1.5%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	pH-L	pH Units	7.51	6.92			8.2%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	P-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	K-D	mg/L	0.184	0.187	0.050	0.050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	K-T	mg/L	0.179	0.182	0.050	0.050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Se-D	mg/L	0.000045	0.000044	0.000040	0.000040		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Se-T	mg/L	0.000053	0.000045	0.000040	0.000040		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Si-D	mg/L	2.02	2.06	0.050	0.050	2.0%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Si-T	mg/L	2.03	2.06	0.050	0.050	1.5%	FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ9	MLQ9-16OCT25-R	2025-10-16	Ca-T	mg/L	10.3	10.5	0.050	0.050	1.9%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ni-T	mg/L	0.000070	0.000077	0.000020	0.000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	pH-L	pH Units	6.56	6.53			0.5%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	P-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	K-D	mg/L	0.180	0.171	0.050	0.050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	K-T	mg/L	0.169	0.183	0.050	0.050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Se-D	mg/L	0.000046	0.000048	0.000040	0.000040		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Se-T	mg/L	0.000052	0.000045	0.000040	0.000040		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Si-D	mg/L	2.46	2.49	0.050	0.050	1.2%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mo-D	mg/L	0.000180	0.000188	0.000050	0.000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Na-D	mg/L	6.82	6.81	0.050	0.050	0.1%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Na-T	mg/L	6.87	6.83	0.050	0.050	0.6%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sr-D	mg/L	0.0337	0.0339	0.000050	0.000050	0.6%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sr-T	mg/L	0.0341	0.0357	0.000050	0.000050	4.6%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	SO4-D	mg/L	14	13	1.0	1.0	7.4%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Si-T	mg/L	2.56	2.55	0.050	0.050	0.4%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Fe-D	mg/L	0.0221	0.0230	0.0010	0.0010	4.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ca-D	mg/L	8.96	8.98	0.050	0.050	0.2%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ca-T	mg/L	9.22	9.02	0.050	0.050	2.2%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cr-D	mg/L	0.00013	0.00013	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cr-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Co-D	mg/L	0.0000109	0.0000105	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Co-T	mg/L	0.0000179	0.0000184	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cu-D	mg/L	0.000493	0.000483	0.000050	0.000050	2.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ni-D	mg/L	0.000074	0.000075	0.000020	0.000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Hard-T	mg/L	28.0	27.5	0.50	0.50	1.8%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mo-T	mg/L	0.000168	0.000164	0.000050	0.000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Turb-F	NTU	0.48	0.48			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mg-D	mg/L	1.23	1.20	0.050	0.050	2.5%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mg-T	mg/L	1.21	1.20	0.050	0.050	0.8%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mn-D	mg/L	0.00905	0.00889	0.000050	0.000050	1.8%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Mn-T	mg/L	0.0219	0.0203	0.000050	0.000050	7.6%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Pb-T	mg/L	<0.0000050	0.0000068	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cu-T	mg/L	0.000521	0.000534	0.000050	0.000050	2.5%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Al-T	mg/L	0.0208	0.0219	0.00050	0.00050	5.2%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Al-D	mg/L	0.0158	0.0170	0.00050	0.00050	7.3%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ9	MLQ9-30OCT25-R	2025-10-30	Alk-T	mg/L	29	28	1.0	1.0	3.5%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	DO-F	mg/L	9.95	9.95			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Cond-F	uS/cm	81.6	81.6			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	pH-F	pH Units	7.35	7.35			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sat-F	%	87.3	87.3			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Temp-F	C	9.56	9.56			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	S-D	mg/L	4.8	4.0	3.0	3.0		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Hard-D	mg/L	27.5	27.4	0.50	0.50	0.4%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Fe-T	mg/L	0.0509	0.0465	0.0010	0.0010	9.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	ORP-F	mV	216.5	216.5			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	DOC	mg/L	2.5	2.7	0.50	0.50	7.7%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Wlevel	m	9	9			0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Zn-T	mg/L	0.00040	0.00027	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Turb	NTU	0.47	0.96	0.10	0.10	68.5%	TRUE
MLQ9	MLQ9-30OCT25-R	2025-10-30	S-T	mg/L	4.5	6.4	3.0	3.0		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	As-D	mg/L	0.000161	0.000167	0.000020	0.000020	3.7%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	U-T	mg/L	0.0000059	0.0000052	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	N-T	mg/L	0.139	0.161	0.020	0.020	14.7%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	U-D	mg/L	0.0000060	0.0000054	0.0000020	0.0000020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Zn-D	mg/L	0.00042	0.00035	0.00010	0.00010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	N-TKN	mg/L	0.14	0.16	0.020	0.020	13.3%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	B-D	mg/L	0.031	0.029	0.010	0.010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	B-T	mg/L	0.030	0.029	0.010	0.010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	As-T	mg/L	0.000156	0.000175	0.000020	0.000020	11.5%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Bicarb	mg/L	35	35	1.0	1.0	0.0%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	V-T	mg/L	0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ba-T	mg/L	0.00167	0.00169	0.000020	0.000020	1.2%	FALSE
MLQ9	MLQ9-30OCT25-R	2025-10-30	Ba-D	mg/L	0.00155	0.00150	0.000020	0.000020	3.3%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Alk-T	mg/L	31	31	1.0	1.0	0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cond-F	uS/cm	101.7	101.7			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	pH-F	pH Units	7.06	7.06			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sat-F	%	93.9	93.9			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Wlevel	m	9	9			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Temp-F	C	6.41	6.41			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	DO-F	mg/L	11.56	11.56			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	S-T	mg/L	5.8	6.7	3.0	3.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	S-D	mg/L	6.7	7.0	3.0	3.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Hard-D	mg/L	32.7	32.9	0.50	0.50	0.6%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	DOC	mg/L	2.0	2.3	0.50	0.50		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Turb-F	NTU	1.33	1.33			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	ORP-F	mV	131.4	131.4			0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	K-T	mg/L	0.144	0.154	0.050	0.050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Al-T	mg/L	0.0185	0.0174	0.0030	0.0030	6.1%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sr-T	mg/L	0.0438	0.0461	0.0010	0.0010	5.1%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	K-D	mg/L	0.151	0.157	0.050	0.050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	As-D	mg/L	<0.00010	0.00011	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MLQ9	MLQ9-9APR25-R	2025-04-09	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Si-T	mg/L	2.10	2.19	0.10	0.10	4.2%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Na-D	mg/L	7.80	8.16	0.050	0.050	4.5%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Na-T	mg/L	7.72	8.06	0.050	0.050	4.3%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sr-D	mg/L	0.0472	0.0455	0.0010	0.0010	3.7%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	P-T	mg/L	<0.0030	0.0031	0.0030	0.0030		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ca-T	mg/L	10.9	10.9	0.050	0.050	0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ca-D	mg/L	10.9	10.8	0.050	0.050	0.9%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	B-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Bicarb	mg/L	37	38	1.0	1.0	2.7%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ba-T	mg/L	0.0017	0.0017	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ba-D	mg/L	0.0017	0.0016	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	As-T	mg/L	0.00011	0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Si-D	mg/L	2.17	2.13	0.10	0.10	1.9%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	SO4-D	mg/L	19	19	1.0	1.0	0.0%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mg-T	mg/L	1.28	1.38	0.050	0.050	7.5%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mn-T	mg/L	0.0055	0.0052	0.0010	0.0010	5.6%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mg-D	mg/L	1.33	1.41	0.050	0.050	5.8%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Al-D	mg/L	0.0136	0.0130	0.0030	0.0030		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Mn-D	mg/L	0.0015	0.0015	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Fe-T	mg/L	0.028	0.026	0.010	0.010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Fe-D	mg/L	0.0109	0.0106	0.0050	0.0050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Hard-T	mg/L	32.5	32.8	0.50	0.50	0.9%	FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cu-T	mg/L	0.00054	0.00055	0.00050	0.00050		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cu-D	mg/L	0.00050	0.00052	0.00020	0.00020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
MLQ9	MLQ9-9APR25-R	2025-04-09	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-14JAN26-R	2026-01-14	DOC	mg/L	0.95	1	0.5	0.5		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Temp-F	C	10.95	10.95			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Zr-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	S-D	mg/L	448	444	15	15	0.9%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Acidity83	mg/L	<1.0	5.1	1	1	134.4%	TRUE
MW002	MW002-14JAN26-R	2026-01-14	Carb	mg/L	<1.0	<1.0	1	1		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Wlevel	m	3.499	3.499			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Hard-D	mg/L	1460	1420	0.5	0.5	2.8%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ba-D	mg/L	0.0142	0.0146	0.005	0.005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MW002	MW002-14JAN26-R	2026-01-14	ORP-F	mV	21.8	21.8			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	H2S	mg/L	0.0055	0.0059	0.002	0.002		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Turb-F	NTU	9.76	9.76			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
MW002	MW002-14JAN26-R	2026-01-14	SO4-D	mg/L	1200	1200	25	10		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Mo-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ni-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	pH-L	pH Units	7.98	7.97			0.1%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	K-D	mg/L	5.8	5.77	0.25	0.25	0.5%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Se-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Si-D	mg/L	3.94	3.85	0.5	0.5	2.3%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ag-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Alk-T	mg/L	270	270	1	1	0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Sr-D	mg/L	4.58	4.55	0.005	0.005	0.7%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Li-D	mg/L	0.014	0.014	0.01	0.01		FALSE
MW002	MW002-14JAN26-R	2026-01-14	S2-T	mg/L	0.0051	0.0056	0.0018	0.0018		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ti-D	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Sn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ti-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Turb	NTU	59	57	0.1	0.1	3.4%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	U-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	V-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Zn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Na-D	mg/L	46.8	46.3	0.25	0.25	1.1%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Ca-D	mg/L	503	491	0.25	0.25	2.4%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Cond-F	uS/cm	2428.5	2428.5			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	DO-F	mg/L	7.72	7.72			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Sb-D	mg/L	<0.0025	<0.0025	0.0025	0.0025		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Al-D	mg/L	<0.015	<0.015	0.015	0.015		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Be-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Bicarb	mg/L	330	330	1	1	0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Bi-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	B-D	mg/L	0.75	0.74	0.25	0.25		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Mn-D	mg/L	1.6	1.57	0.005	0.005	1.9%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Cd-D	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Mg-D	mg/L	49.1	47.9	0.25	0.25	2.5%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Cl-D	mg/L	1.8	1.7	1	1		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Cr-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Co-D	mg/L	0.0026	0.0026	0.001	0.001		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Cu-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
MW002	MW002-14JAN26-R	2026-01-14	F-D	mg/L	0.087	0.085	0.05	0.05		FALSE
MW002	MW002-14JAN26-R	2026-01-14	Fe-D	mg/L	5.67	5.54	0.025	0.025	2.3%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
MW002	MW002-14JAN26-R	2026-01-14	pH-F	pH Units	7.02	7.02			0.0%	FALSE
MW002	MW002-14JAN26-R	2026-01-14	Br-D	mg/L	<0.010	0.016	0.01	0.01		FALSE
MW002	MW002-14JAN26-R	2026-01-14	As-D	mg/L	0.00258	0.00275	0.0005	0.0005	6.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	B-D	mg/L	0.64	0.62	0.25	0.25		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Mn-D	mg/L	1.88	1.87	0.0050	0.0050	0.5%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Mg-D	mg/L	49.4	48.2	0.25	0.25	2.5%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Li-D	mg/L	0.012	0.012	0.010	0.010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Pb-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Fe-D	mg/L	5.73	5.65	0.025	0.025	1.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	F-D	mg/L	0.095	0.089	0.050	0.050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Cu-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Co-D	mg/L	0.0031	0.0031	0.0010	0.0010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Cr-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Cl-D	mg/L	1.3	<1.0	1.0	1.0		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Ca-D	mg/L	508	500	0.25	0.25	1.6%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Br-D	mg/L	0.014	0.013	0.010	0.010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Bi-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	As-D	mg/L	0.00222	0.00225	0.00050	0.00050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Sb-D	mg/L	<0.0025	<0.0025	0.0025	0.0025		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Al-D	mg/L	<0.015	<0.015	0.015	0.015		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Ba-D	mg/L	0.0148	0.0144	0.0050	0.0050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Alk-T	mg/L	270	270	1.0	1.0	0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	DO-F	mg/L	0.72	0.72			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Be-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Sn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MW002	MW002-27MAY25-R	2025-05-27	Bicarb	mg/L	330	330	1.0	1.0	0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Mo-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Cd-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-27MAY25-R	2025-05-27	pH-F	pH Units	6.61	6.61			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Wlevel	m	2.49	2.49			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Temp-F	C	10.5	10.5			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Zr-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	S-D	mg/L	421	414	15	15	1.7%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Cond-F	uS/cm	2167	2167			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Acidity83	mg/L	15.6	16.2	1.0	1.0	3.8%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Hard-D	mg/L	1470	1450	0.50	0.50	1.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	DOC	mg/L	0.99	1.0	0.50	0.50		FALSE
MW002	MW002-27MAY25-R	2025-05-27	ORP-F	mV	71.7	71.7			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Ni-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Sr-D	mg/L	4.82	4.66	0.0050	0.0050	3.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	pH-L	pH Units	7.44	7.44			0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	K-D	mg/L	5.44	5.42	0.25	0.25	0.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Zn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Se-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Si-D	mg/L	3.73	3.69	0.50	0.50	1.1%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Na-D	mg/L	45.1	44.6	0.25	0.25	1.1%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	SO4-D	mg/L	1200	1200	10	10	0.0%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	Ti-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-27MAY25-R	2025-05-27	V-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-27MAY25-R	2025-05-27	U-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Ag-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MW002	MW002-27MAY25-R	2025-05-27	Turb	NTU	42	41	0.10	0.10	2.4%	FALSE
MW002	MW002-27MAY25-R	2025-05-27	TI-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Al-D	mg/L	<0.015	<0.015	0.015	0.015		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Sb-D	mg/L	<0.0025	<0.0025	0.0025	0.0025		FALSE
MW002	MW002-2OCT25-R	2025-10-02	As-D	mg/L	0.00196	0.00209	0.00050	0.00050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Ba-D	mg/L	0.0132	0.0128	0.0050	0.0050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Be-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Bi-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Cd-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-2OCT25-R	2025-10-02	B-D	mg/L	0.89	0.89	0.25	0.25		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Br-D	mg/L	0.019	0.019	0.010	0.010		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Bicarb	mg/L	330	340	1.0	1.0	3.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Acidity83	mg/L	2.0	1.4	1.0	1.0		FALSE
MW002	MW002-2OCT25-R	2025-10-02	DOC	mg/L	0.92	0.94	0.50	0.50		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Se-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Ca-D	mg/L	489	491	0.25	0.25	0.4%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Hard-D	mg/L	1440	1440	0.50	0.50	0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Alk-T	mg/L	270	270	1.0	1.0	0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	S-D	mg/L	417	424	15	15	1.7%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Zr-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Temp-F	C	11.5	11.5			0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Wlevel	m	3.56	3.56			0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	pH-F	pH Units	6.65	6.65			0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Cond-F	uS/cm	494.8	494.8			0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Sn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-2OCT25-R	2025-10-02	V-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Zn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-2OCT25-R	2025-10-02	U-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	pH-L	pH Units	7.57	7.49			1.1%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Ti-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Cl-D	mg/L	1.3	1.5	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
MW002	MW002-2OCT25-R	2025-10-02	TI-D	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
MW002	MW002-2OCT25-R	2025-10-02	SO4-D	mg/L	1200	1200	10	10	0.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Sr-D	mg/L	4.23	4.06	0.0050	0.0050	4.1%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Na-D	mg/L	49.0	49.2	0.25	0.25	0.4%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Ag-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
MW002	MW002-2OCT25-R	2025-10-02	F-D	mg/L	0.10	0.10	0.050	0.050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Turb	NTU	39	32	0.10	0.10	19.7%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Si-D	mg/L	3.96	4.00	0.50	0.50	1.0%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Cr-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Cu-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Fe-D	mg/L	5.99	5.96	0.025	0.025	0.5%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Pb-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Li-D	mg/L	0.018	0.018	0.010	0.010		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Mg-D	mg/L	51.9	52.0	0.25	0.25	0.2%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Mn-D	mg/L	1.64	1.63	0.0050	0.0050	0.6%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Mo-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	Ni-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
MW002	MW002-2OCT25-R	2025-10-02	K-D	mg/L	5.83	5.69	0.25	0.25	2.4%	FALSE
MW002	MW002-2OCT25-R	2025-10-02	Co-D	mg/L	0.0030	0.0030	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	K-T	mg/L	0.053	<0.050	0.050	0.050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	K-D	mg/L	0.053	<0.050	0.050	0.050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	P-T	mg/L	0.0031	0.0055	0.0030	0.0030		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ni-D	mg/L	0.000069	0.000045	0.000020	0.000020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mn-T	mg/L	0.0040	0.0038	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mg-T	mg/L	0.839	0.826	0.050	0.050	1.6%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Si-D	mg/L	3.20	3.18	0.050	0.050	0.6%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	V-D	mg/L	0.00040	0.00043	0.00020	0.00020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Pb-D	mg/L	0.0000054	0.0000058	0.0000050	0.0000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mg-D	mg/L	0.836	0.816	0.050	0.050	2.4%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Fe-T	mg/L	0.052	0.053	0.010	0.010	1.9%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mn-D	mg/L	0.00371	0.00333	0.000050	0.000050	10.8%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Zn-D	mg/L	0.00163	0.00136	0.00010	0.00010	18.1%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	U-D	mg/L	0.0000033	0.0000028	0.0000020	0.0000020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Si-T	mg/L	3.16	3.21	0.10	0.10	1.6%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	SO4-D	mg/L	1.3	1.3	1.0	1.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sr-T	mg/L	0.0128	0.0123	0.0010	0.0010	4.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sr-D	mg/L	0.0125	0.0124	0.000050	0.000050	0.8%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Na-T	mg/L	1.10	1.07	0.050	0.050	2.8%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Na-D	mg/L	1.08	1.06	0.050	0.050	1.9%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Al-T	mg/L	0.0312	0.0313	0.0030	0.0030	0.3%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Al-D	mg/L	0.0264	0.0273	0.00050	0.00050	3.4%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Alk-T	mg/L	12	14	1.0	1.0	15.4%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	DO-F	mg/L	10.19	10.19			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
NNL1	NNL1-6MAY25-R	2025-05-06	Cond-F	uS/cm	32.1	32.1			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	pH-F	pH Units	7.03	7.03			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Sat-F	%	100.5	100.5			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Wlevel	m	1	1			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	As-D	mg/L	0.000294	0.000266	0.000020	0.000020	10.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	ORP-F	mV	135.2	135.2			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Hard-D	mg/L	13.0	13.0	0.50	0.50	0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	DOC	mg/L	2.8	2.8	0.50	0.50	0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Turb-F	NTU	-1.44	-1.44				FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Fe-D	mg/L	0.0419	0.0413	0.0010	0.0010	1.4%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Mo-D	mg/L	0.000181	0.000164	0.000050	0.000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Temp-F	C	14.745	14.745			0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cu-D	mg/L	0.000451	0.000436	0.000050	0.000050	3.4%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	As-T	mg/L	0.00029	0.00028	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Hard-T	mg/L	13.1	13.1	0.50	0.50	0.0%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Co-D	mg/L	0.0000236	0.0000218	0.0000050	0.0000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Chlr-a	ug/L	0.72	0.55	0.53	0.53		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ca-T	mg/L	3.86	3.88	0.050	0.050	0.5%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ca-D	mg/L	3.82	3.84	0.050	0.050	0.5%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	B-D	mg/L	0.014	0.016	0.010	0.010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Bicarb	mg/L	15	17	1.0	1.0	12.5%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ba-D	mg/L	0.00104	0.00109	0.000020	0.000020	4.7%	FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNL1	NNL1-6MAY25-R	2025-05-06	Ba-T	mg/L	0.0011	0.0011	0.0010	0.0010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mg-D	mg/L	0.862	0.868	0.050	0.050	0.7%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mg-T	mg/L	0.854	0.869	0.050	0.050	1.7%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mn-D	mg/L	0.00465	0.00460	0.000050	0.000050	1.1%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mn-T	mg/L	0.00725	0.00736	0.000050	0.000050	1.5%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mo-D	mg/L	0.000202	0.000510	0.000050	0.000050	86.5%	TRUE
NNO	NNO-14JUL25-R	2025-07-14	Ni-D	mg/L	0.000065	0.000057	0.000020	0.000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Hard-T	mg/L	14.4	15.0	0.50	0.50	4.1%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ni-T	mg/L	0.000060	0.000094	0.000020	0.000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	K-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Mo-T	mg/L	0.000157	0.000149	0.000050	0.000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Pb-D	mg/L	0.0000051	0.0000060	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cu-D	mg/L	0.000381	0.000401	0.000050	0.000050	5.1%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Fe-D	mg/L	0.0539	0.0535	0.0010	0.0010	0.7%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cu-T	mg/L	0.000382	0.000382	0.000050	0.000050	0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	K-T	mg/L	<0.050	0.050	0.050	0.050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Co-T	mg/L	0.0000159	0.0000195	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Co-D	mg/L	0.0000156	0.0000190	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Fe-T	mg/L	0.0696	0.0706	0.0010	0.0010	1.4%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Zn-D	mg/L	0.00061	0.00173	0.00010	0.00010	95.7%	TRUE
NNO	NNO-14JUL25-R	2025-07-14	Zn-T	mg/L	0.00015	0.00025	0.00010	0.00010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
NNO	NNO-14JUL25-R	2025-07-14	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	V-D	mg/L	0.00034	0.00033	0.00020	0.00020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	U-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	U-D	mg/L	0.0000021	0.0000021	0.0000020	0.0000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	TSS	mg/L	1.2	2.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sr-T	mg/L	0.0142	0.0147	0.000050	0.000050	3.5%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
NNO	NNO-14JUL25-R	2025-07-14	SO4-D	mg/L	1.2	1.2	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	V-T	mg/L	0.00033	0.00037	0.00020	0.00020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sr-D	mg/L	0.0141	0.0140	0.000050	0.000050	0.7%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Na-T	mg/L	1.08	1.11	0.050	0.050	2.7%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Na-D	mg/L	1.08	1.12	0.050	0.050	3.6%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Si-T	mg/L	2.13	2.19	0.050	0.050	2.8%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Si-D	mg/L	2.14	2.12	0.050	0.050	0.9%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Alk-T	mg/L	14	15	1.0	1.0	6.9%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cond-F	uS/cm	45.8	45.8			0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	pH-F	pH Units	7.46	7.46			0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Temp-F	C	21.1	21.1			0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Al-D	mg/L	0.0104	0.0106	0.00050	0.00050	1.9%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Acidity83	mg/L	1.2	1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Hard-D	mg/L	14.7	14.9	0.50	0.50	1.4%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	DOC	mg/L	3.1	3.1	0.50	0.50	0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	SG	m	0.22	0.22			0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-14JUL25-R	2025-07-14	B-T	mg/L	0.012	0.013	0.010	0.010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Al-T	mg/L	0.0131	0.0137	0.00050	0.00050	4.5%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	B-D	mg/L	0.013	0.013	0.010	0.010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ca-D	mg/L	4.47	4.54	0.050	0.050	1.6%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ca-T	mg/L	4.35	4.58	0.050	0.050	5.2%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
NNO	NNO-14JUL25-R	2025-07-14	As-D	mg/L	0.000353	0.000354	0.000020	0.000020	0.3%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ba-T	mg/L	0.00103	0.000975	0.000020	0.000020	5.5%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
NNO	NNO-14JUL25-R	2025-07-14	Ba-D	mg/L	0.00102	0.000994	0.000020	0.000020	2.6%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	As-T	mg/L	0.000385	0.000362	0.000020	0.000020	6.2%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Bicarb	mg/L	18	18	1.0	1.0	0.0%	FALSE
NNO	NNO-14JUL25-R	2025-07-14	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
NNO	NNO-14OCT25-R	2025-10-14	B-T	mg/L	0.013	0.014	0.01	0.01		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ti-T	mg/L	0.00062	<0.00050	0.0005	0.0005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	TSS	mg/L	<1.0	<1.0	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	U-D	mg/L	0.0000027	0.0000028	0.000002	0.000002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	U-T	mg/L	0.000002	0.000002	0.000002	0.000002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
NNO	NNO-14OCT25-R	2025-10-14	V-D	mg/L	0.00034	0.0003	0.0002	0.0002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	V-T	mg/L	0.00034	0.00033	0.0002	0.0002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Zn-D	mg/L	0.00024	0.00079	0.0001	0.0001	106.8%	TRUE
NNO	NNO-14OCT25-R	2025-10-14	SO4-D	mg/L	1.5	1.4	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Zn-T	mg/L	<0.00010	0.00011	0.0001	0.0001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Co-D	mg/L	0.0000152	0.0000147	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Mg-D	mg/L	0.943	0.948	0.05	0.05	0.5%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Bicarb	mg/L	17	18	1	1	5.7%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	B-D	mg/L	0.011	0.011	0.01	0.01		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ca-D	mg/L	4.56	4.64	0.05	0.05	1.7%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ca-T	mg/L	4.56	4.61	0.05	0.05	1.1%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ba-T	mg/L	0.00124	0.00122	0.00002	0.00002	1.6%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ba-D	mg/L	0.00121	0.00123	0.00002	0.00002	1.6%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Co-T	mg/L	0.0000188	0.0000181	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cu-D	mg/L	0.000521	0.000505	0.00005	0.00005	3.1%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cu-T	mg/L	0.000512	0.000527	0.00005	0.00005	2.9%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Hard-T	mg/L	15.5	15.6	0.5	0.5	0.6%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Fe-D	mg/L	0.0327	0.0318	0.001	0.001	2.8%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Fe-T	mg/L	0.0488	0.0489	0.001	0.001	0.2%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Pb-T	mg/L	<0.0000050	0.0000089	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Li-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Li-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	SG	m	0.3	0.3			0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	DOC	mg/L	4	4.1	0.5	0.5	2.5%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Hard-D	mg/L	15.3	15.5	0.5	0.5	1.3%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Carb	mg/L	<1.0	<1.0	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Acidity83	mg/L	1.3	1.7	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sr-T	mg/L	0.0147	0.0148	0.00005	0.00005	0.7%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Temp-F	C	8.9	8.9			0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	pH-F	pH Units	7.8	7.8			0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Cond-F	uS/cm	58.5	58.5			0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Alk-T	mg/L	14	15	1	1	6.9%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Al-D	mg/L	0.0204	0.02	0.0005	0.0005	2.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Al-T	mg/L	0.0246	0.0246	0.0005	0.0005	0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	As-D	mg/L	0.000317	0.000325	0.00002	0.00002	2.5%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	As-T	mg/L	0.000335	0.000323	0.00002	0.00002	3.6%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	S-T	mg/L	<3.0	<3.0	3	3		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Mg-T	mg/L	0.985	0.985	0.05	0.05	0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Sr-D	mg/L	0.0143	0.0144	0.00005	0.00005	0.7%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	S-D	mg/L	<3.0	<3.0	3	3		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Na-D	mg/L	1.17	1.17	0.05	0.05	0.0%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Si-T	mg/L	2.69	2.7	0.05	0.05	0.4%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Si-D	mg/L	2.53	2.55	0.05	0.05	0.8%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Se-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Se-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
NNO	NNO-14OCT25-R	2025-10-14	K-D	mg/L	0.072	0.071	0.05	0.05		FALSE
NNO	NNO-14OCT25-R	2025-10-14	pH-L	pH Units	6.87	6.88			0.1%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Ni-T	mg/L	0.000059	0.000132	0.00002	0.00002	76.4%	TRUE
NNO	NNO-14OCT25-R	2025-10-14	Ni-D	mg/L	0.000066	0.000072	0.00002	0.00002		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Mo-T	mg/L	0.000141	0.000146	0.00005	0.00005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
NNO	NNO-14OCT25-R	2025-10-14	Mn-D	mg/L	0.00137	0.00141	0.00005	0.00005	2.9%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Mn-T	mg/L	0.00351	0.00341	0.00005	0.00005	2.9%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	K-T	mg/L	0.071	0.067	0.05	0.05		FALSE
NNO	NNO-14OCT25-R	2025-10-14	Na-T	mg/L	1.21	1.19	0.05	0.05	1.7%	FALSE
NNO	NNO-14OCT25-R	2025-10-14	Mo-D	mg/L	0.000143	0.000182	0.00005	0.00005		FALSE
NNO	NNO-28APR25-R	2025-04-28	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Na-T	mg/L	1.08	1.09	0.050	0.050	0.9%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Mg-D	mg/L	0.839	0.791	0.050	0.050	5.9%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Hard-D	mg/L	12.8	12.5	0.50	0.50	2.4%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	DOC	mg/L	3.1	3.4	0.50	0.50	9.2%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Ca-D	mg/L	3.75	3.69	0.050	0.050	1.6%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ca-T	mg/L	3.73	3.62	0.050	0.050	3.0%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-28APR25-R	2025-04-28	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Hard-T	mg/L	12.7	12.4	0.50	0.50	2.4%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Fe-D	mg/L	0.0397	0.0400	0.0050	0.0050	0.8%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Fe-T	mg/L	0.051	0.052	0.010	0.010	1.9%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ba-D	mg/L	0.0011	0.0011	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Cu-D	mg/L	0.00055	0.00043	0.00020	0.00020		FALSE
NNO	NNO-28APR25-R	2025-04-28	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Alk-T	mg/L	13	12	1.0	1.0	8.0%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Al-D	mg/L	0.0290	0.0281	0.0030	0.0030	3.2%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Al-T	mg/L	0.0351	0.0353	0.0030	0.0030	0.6%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
NNO	NNO-28APR25-R	2025-04-28	As-D	mg/L	0.00023	0.00026	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ba-T	mg/L	0.0011	0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Bicarb	mg/L	16	15	1.0	1.0	6.5%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNO	NNO-28APR25-R	2025-04-28	B-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-28APR25-R	2025-04-28	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	As-T	mg/L	0.00020	0.00020	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Sr-T	mg/L	0.0113	0.0111	0.0010	0.0010	1.8%	FALSE
NNO	NNO-28APR25-R	2025-04-28	SO4-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Sr-D	mg/L	0.0117	0.0117	0.0010	0.0010	0.0%	FALSE
NNO	NNO-28APR25-R	2025-04-28	TSS	mg/L	1.2	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Mg-T	mg/L	0.817	0.811	0.050	0.050	0.7%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
NNO	NNO-28APR25-R	2025-04-28	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
NNO	NNO-28APR25-R	2025-04-28	K-D	mg/L	0.052	0.053	0.050	0.050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Mn-T	mg/L	0.0039	0.0042	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Mn-D	mg/L	0.0029	0.0027	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	K-T	mg/L	0.062	0.051	0.050	0.050		FALSE
NNO	NNO-28APR25-R	2025-04-28	Si-T	mg/L	3.18	3.13	0.10	0.10	1.6%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Na-D	mg/L	1.04	1.00	0.050	0.050	3.9%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Si-D	mg/L	3.11	3.01	0.10	0.10	3.3%	FALSE
NNO	NNO-28APR25-R	2025-04-28	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
NNO	NNO-28APR25-R	2025-04-28	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ca-D	mg/L	13.6	13.8	0.05	0.05	1.5%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	B-D	mg/L	0.063	0.066	0.05	0.05		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Bicarb	mg/L	53	55	1	1	3.7%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ca-T	mg/L	13.4	13.6	0.05	0.05	1.5%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	B-T	mg/L	0.058	0.057	0.05	0.05		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Chrysene	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Cu-D	mg/L	0.00037	0.00036	0.0002	0.0002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Al-T	mg/L	0.0125	0.0119	0.003	0.003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Fluoranthene	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Fluorene	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Alk-T	mg/L	43	45	1	1	4.5%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Hard-D	mg/L	41	41.8	0.5	0.5	1.9%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	S-D	mg/L	14.4	14.8	3	3		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	S-T	mg/L	12.6	11.4	3	3		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Acenaphthene	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Acridine	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Benzo(k)fluo	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Al-D	mg/L	0.0071	0.0074	0.003	0.003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Hg-D	mg/L	<0.0000019	<0.0000019	0.0000019	0.0000019		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Anthrac	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Hard-T	mg/L	40.7	40.9	0.5	0.5	0.5%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	As-D	mg/L	0.00025	0.00028	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	As-T	mg/L	0.00029	0.00031	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ba-D	mg/L	0.0022	0.0021	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ba-T	mg/L	0.002	0.0022	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Benzo(a)anthracen	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Benzo(a)pyre	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS	QRD01-16SEP25-R	2025-09-16	Acenaphthy	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sr-D	mg/L	0.0796	0.0818	0.001	0.001	2.7%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mn-D	mg/L	0.0012	0.0013	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Turb	NTU	0.33	0.48	0.1	0.1		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	PAH-Total	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Sr-T	mg/L	0.0742	0.0762	0.001	0.001	2.7%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Na-T	mg/L	19	18.6	0.05	0.05	2.1%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Na-D	mg/L	17.9	19	0.05	0.05	6.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Si-D	mg/L	1.95	1.97	0.1	0.1	1.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Quinoline	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Pyrene	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	K-T	mg/L	0.294	0.296	0.05	0.05	0.7%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	K-D	mg/L	0.293	0.327	0.05	0.05	11.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	P-T	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	SO4-D	mg/L	39	39	1	1	0.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Naphth	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Fe-D	mg/L	0.0187	0.0183	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Fe-T	mg/L	0.038	0.038	0.01	0.01		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Li-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mg-D	mg/L	1.7	1.8	0.05	0.05	5.7%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mg-T	mg/L	1.75	1.7	0.05	0.05	2.9%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mn-T	mg/L	0.0094	0.0095	0.001	0.001	1.1%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Hg-T	mg/L	<0.0000019	<0.0000019	0.0000019	0.0000019		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Indeno(123cd)pyr	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	N-NO3	mg/L	<0.020	<0.020	0.02	0.02		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	N-NO23	mg/L	<0.020	<0.020	0.02	0.02		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	N-NO2	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Phenantr	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	P-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	DOC	mg/L	2.3	2.3	0.5	0.5		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Si-T	mg/L	1.64	1.65	0.1	0.1	0.6%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	D-14TER	%	82	83			1.2%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	TOC	mg/L	2.2	2.2	0.5	0.5		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Methylnaphthalen	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	-NAPHTHALENE(su	%	91	97			6.4%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	PAH22	mg/L	<0.0000030	<0.0000030	0.000003	0.000003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	PAHHIGHMW	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	PAHLOWMW	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	CENAPHTHYLENE(	%	99	101			2.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	D10-ANTH	%	104	104			0.0%	FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Benzo(ghi)per	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	Benzo(bj)flu	mg/L	<0.000030	<0.000030	0.00003	0.00003		FALSE
QRDS	QRD01-16SEP25-R	2025-09-16	2-Methnaphthe	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mn-T	mg/L	0.00746	0.00788	0.00005	0.00005	5.5%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	K-T	mg/L	0.205	0.215	0.05	0.05		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-20OCT25-R	2025-10-20	K-D	mg/L	0.234	0.231	0.05	0.05		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	pH-L	pH Units	6.88	6.9			0.3%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ni-T	mg/L	0.000056	0.000066	0.00002	0.00002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ni-D	mg/L	0.00006	0.000072	0.00002	0.00002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mo-T	mg/L	0.000152	0.000163	0.00005	0.00005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mo-D	mg/L	0.000215	0.000223	0.00005	0.00005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Se-D	mg/L	0.00005	0.000054	0.00004	0.00004		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mn-D	mg/L	0.00342	0.00331	0.00005	0.00005	3.3%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mg-T	mg/L	1.47	1.49	0.05	0.05	1.4%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Mg-D	mg/L	1.57	1.59	0.05	0.05	1.3%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Se-T	mg/L	<0.000040	0.000043	0.00004	0.00004		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sr-D	mg/L	0.0684	0.0689	0.00005	0.00005	0.7%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Fe-T	mg/L	0.0353	0.0361	0.001	0.001	2.2%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Fe-D	mg/L	0.0203	0.0194	0.001	0.001	4.5%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Hard-T	mg/L	34.6	35.2	0.5	0.5	1.7%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Li-D	mg/L	0.00065	0.0007	0.0005	0.0005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Zn-D	mg/L	0.00093	0.00115	0.0001	0.0001	21.2%	TRUE
QRDS1	QRDS1-20OCT25-R	2025-10-20	V-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	V-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	U-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	U-D	mg/L	0.0000029	0.0000023	0.000002	0.000002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	TSS	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ti-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Na-D	mg/L	10.5	10.6	0.05	0.05	0.9%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Si-D	mg/L	2.08	2.15	0.05	0.05	3.3%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	SO4-D	mg/L	25	25	1	1	0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sr-T	mg/L	0.0565	0.057	0.00005	0.00005	0.9%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cl-D	mg/L	2.3	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Na-T	mg/L	10.5	10.5	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Si-T	mg/L	1.94	1.98	0.05	0.05	2.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	S-T	mg/L	7.7	7.5	3	3		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Al-T	mg/L	0.00596	0.00738	0.0005	0.0005	21.3%	TRUE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Al-D	mg/L	0.00464	0.00442	0.0005	0.0005	4.9%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Alk-T	mg/L	36	36	1	1	0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cond-F	uS/cm	129.7	129.7			0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	pH-F	pH Units	7.62	7.62			0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Temp-F	C	11.4	11.4			0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	As-D	mg/L	0.000463	0.00047	0.00002	0.00002	1.5%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	As-T	mg/L	0.000444	0.000436	0.00002	0.00002	1.8%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	S-D	mg/L	8.8	9	3	3		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Acidity83	mg/L	2.1	1	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Hard-D	mg/L	36.6	37.9	0.5	0.5	3.5%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	DOC	mg/L	2	2.3	0.5	0.5		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	SG	m	0.79	0.79			0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cu-D	mg/L	0.000422	0.000494	0.00005	0.00005	15.7%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Co-T	mg/L	0.0000102	0.0000099	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Co-D	mg/L	0.0000122	0.0000116	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Zn-T	mg/L	0.00016	0.00027	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cr-D	mg/L	0.00011	0.00011	0.0001	0.0001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Li-T	mg/L	0.00067	0.00066	0.0005	0.0005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ca-T	mg/L	11.4	11.6	0.05	0.05	1.7%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ca-D	mg/L	12.1	12.6	0.05	0.05	4.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cu-T	mg/L	0.000385	0.000399	0.00005	0.00005	3.6%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	B-D	mg/L	0.049	0.048	0.01	0.01		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	B-T	mg/L	0.044	0.043	0.01	0.01		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Bicarb	mg/L	44	44	1	1	0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ba-T	mg/L	0.00214	0.00223	0.00002	0.00002	4.1%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Ba-D	mg/L	0.00252	0.00252	0.00002	0.00002	0.0%	FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-20OCT25-R	2025-10-20	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Mg-D	mg/L	2.38	2.34	0.05	0.05	1.7%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Si-D	mg/L	1.91	1.83	0.05	0.05	4.3%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Se-T	mg/L	0.000062	0.000047	0.00004	0.00004		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Se-D	mg/L	0.000041	0.000053	0.00004	0.00004		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	K-T	mg/L	0.391	0.383	0.05	0.05	2.1%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	P-T	mg/L	0.0034	0.0045	0.002	0.002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ni-D	mg/L	0.000058	0.000055	0.00002	0.00002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Mo-D	mg/L	0.000211	0.0002	0.00005	0.00005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Mn-T	mg/L	0.012	0.0135	0.00005	0.00005	11.8%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cu-T	mg/L	0.000477	0.00047	0.00005	0.00005	1.5%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Mg-T	mg/L	2.34	2.35	0.05	0.05	0.4%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Li-T	mg/L	0.00138	0.00132	0.0005	0.0005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Li-D	mg/L	0.00139	0.00137	0.0005	0.0005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Fe-T	mg/L	0.0727	0.0756	0.001	0.001	3.9%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Fe-D	mg/L	0.0421	0.0426	0.001	0.001	1.2%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Zn-T	mg/L	0.00017	0.00019	0.0001	0.0001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Mn-D	mg/L	0.0069	0.00686	0.00005	0.00005	0.6%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Zn-D	mg/L	0.00134	0.00067	0.0001	0.0001	66.7%	TRUE
QRDS1	QRDS1-21JUL25-R	2025-07-21	V-T	mg/L	0.00023	0.00023	0.0002	0.0002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	V-D	mg/L	0.00021	0.00024	0.0002	0.0002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	U-T	mg/L	0.0000098	0.0000103	0.000002	0.000002	5.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	U-D	mg/L	0.0000099	0.0000098	0.000002	0.000002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	TSS	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ti-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Si-T	mg/L	1.94	1.95	0.05	0.05	0.5%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	SO4-D	mg/L	56	57	1	1	1.8%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sr-T	mg/L	0.128	0.127	0.00005	0.00005	0.8%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sr-D	mg/L	0.129	0.125	0.00005	0.00005	3.1%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Na-T	mg/L	22.7	22.7	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Na-D	mg/L	23.7	23.1	0.05	0.05	2.6%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cu-D	mg/L	0.000463	0.00043	0.00005	0.00005	7.4%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	S-D	mg/L	19.2	18.8	3	3	2.1%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Al-T	mg/L	0.0142	0.0149	0.0005	0.0005	4.8%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Al-D	mg/L	0.00958	0.00881	0.0005	0.0005	8.4%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Alk-T	mg/L	48	48	1	1	0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cond-F	uS/cm	244	244			0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	pH-F	pH Units	7.79	7.79			0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Temp-F	C	20.2	20.2			0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Hard-T	mg/L	55.5	55.9	0.5	0.5	0.7%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	S-T	mg/L	19.4	19	3	3	2.1%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	As-D	mg/L	0.000984	0.000943	0.00002	0.00002	4.3%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-21JUL25-R	2025-07-21	Acidity83	mg/L	3.7	1.7	1	1		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Hard-D	mg/L	55.9	54.4	0.5	0.5	2.7%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	DOC	mg/L	1.9	1.9	0.5	0.5		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	SG	m	0.63	0.63			0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Co-T	mg/L	0.0000183	0.000025	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Co-D	mg/L	0.0000187	0.0000148	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ca-T	mg/L	18.4	18.5	0.05	0.05	0.5%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ca-D	mg/L	18.5	17.9	0.05	0.05	3.3%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	B-T	mg/L	0.076	0.076	0.01	0.01	0.0%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Bicarb	mg/L	59	58	1	1	1.7%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ba-T	mg/L	0.00427	0.00438	0.00002	0.00002	2.5%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ba-D	mg/L	0.00425	0.00405	0.00002	0.00002	4.8%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	As-T	mg/L	0.00106	0.00105	0.00002	0.00002	0.9%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	K-D	mg/L	0.402	0.386	0.05	0.05	4.1%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	B-D	mg/L	0.078	0.076	0.01	0.01	2.6%	FALSE
QRDS1	QRDS1-21JUL25-R	2025-07-21	Ni-T	mg/L	0.000065	0.0001	0.00002	0.00002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mn-T	mg/L	0.0124	0.0129	0.00005	0.00005	4.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Si-T	mg/L	2.51	2.43	0.05	0.05	3.2%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Si-D	mg/L	2.38	2.37	0.05	0.05	0.4%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Se-T	mg/L	0.00005	0.000048	0.00004	0.00004		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Se-D	mg/L	0.000045	0.000048	0.00004	0.00004		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	K-T	mg/L	0.229	0.234	0.05	0.05		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	K-D	mg/L	0.231	0.229	0.05	0.05		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	pH-L	pH Units	6.8	6.79			0.1%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ni-T	mg/L	0.000067	0.000069	0.00002	0.00002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ni-D	mg/L	0.000074	0.000077	0.00002	0.00002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Alk-T	mg/L	35	34	1	1	2.9%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mo-D	mg/L	0.000202	0.000201	0.00005	0.00005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Na-T	mg/L	10.8	10.8	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mn-D	mg/L	0.0114	0.0114	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	S-D	mg/L	7.8	8.1	3	3		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	S-T	mg/L	8	8.1	3	3		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Temp-F	C	7.7	7.7			0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cond-F	uS/cm	119.9	119.9			0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mo-T	mg/L	0.000165	0.000164	0.00005	0.00005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	TSS	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	SG	m	1.34	1.34			0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	DOC	mg/L	2.8	2.8	0.5	0.5	0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Hard-D	mg/L	34.6	35.2	0.5	0.5	1.7%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Zn-T	mg/L	0.00017	0.00019	0.0001	0.0001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Zn-D	mg/L	0.00099	0.00089	0.0001	0.0001	10.6%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	V-T	mg/L	<0.00020	0.00021	0.0002	0.0002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	V-D	mg/L	0.00021	0.00021	0.0002	0.0002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	U-D	mg/L	0.0000072	0.0000071	0.000002	0.000002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Na-D	mg/L	10.8	10.3	0.05	0.05	4.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ti-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	SO4-D	mg/L	25	25	1	1	0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sr-T	mg/L	0.0638	0.0647	0.00005	0.00005	1.4%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sr-D	mg/L	0.0643	0.0629	0.00005	0.00005	2.2%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	pH-F	pH Units	7.51	7.51			0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	U-T	mg/L	0.0000063	0.0000065	0.000002	0.000002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Hard-T	mg/L	37.6	37.5	0.5	0.5	0.3%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Fe-D	mg/L	0.0343	0.0348	0.001	0.001	1.4%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Fe-T	mg/L	0.085	0.0795	0.001	0.001	6.7%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Li-T	mg/L	0.00056	0.00058	0.0005	0.0005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Al-T	mg/L	0.0241	0.0244	0.0005	0.0005	1.2%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mg-T	mg/L	1.56	1.57	0.05	0.05	0.6%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cu-D	mg/L	0.000552	0.000557	0.00005	0.00005	0.9%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ba-T	mg/L	0.0026	0.00261	0.00002	0.00002	0.4%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ba-D	mg/L	0.00258	0.00266	0.00002	0.00002	3.1%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	As-T	mg/L	0.000413	0.00042	0.00002	0.00002	1.7%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	As-D	mg/L	0.000404	0.000402	0.00002	0.00002	0.5%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Mg-D	mg/L	1.45	1.54	0.05	0.05	6.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ca-D	mg/L	11.4	11.5	0.05	0.05	0.9%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Bicarb	mg/L	42	42	1	1	0.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	B-T	mg/L	0.04	0.04	0.01	0.01		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	B-D	mg/L	0.038	0.038	0.01	0.01		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cu-T	mg/L	0.000481	0.000516	0.00005	0.00005	7.0%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Ca-T	mg/L	12.5	12.4	0.05	0.05	0.8%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cr-D	mg/L	0.00016	0.00012	0.0001	0.0001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cr-T	mg/L	0.00013	0.00014	0.0001	0.0001		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Co-D	mg/L	0.0000175	0.0000187	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Co-T	mg/L	0.0000206	0.0000207	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Li-D	mg/L	0.00064	0.00068	0.0005	0.0005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Al-D	mg/L	0.0183	0.0184	0.0005	0.0005	0.5%	FALSE
QRDS1	QRDS1-24NOV25-R	2025-11-24	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mo-D	mg/L	0.000212	0.000175	0.000050	0.000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mo-T	mg/L	0.000169	0.000169	0.000050	0.000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ni-D	mg/L	0.000054	<0.000020	0.000020	0.000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	K-D	mg/L	0.230	0.225	0.050	0.050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mn-T	mg/L	0.0112	0.0118	0.000050	0.000050	5.2%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Fe-T	mg/L	0.0735	0.0781	0.0010	0.0010	6.1%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	K-T	mg/L	0.220	0.217	0.050	0.050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ni-T	mg/L	0.000058	0.000042	0.000020	0.000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mn-D	mg/L	0.00874	0.00869	0.000050	0.000050	0.6%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mg-T	mg/L	1.47	1.46	0.050	0.050	0.7%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Mg-D	mg/L	1.36	1.34	0.050	0.050	1.5%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Li-T	mg/L	0.00118	0.00116	0.00050	0.00050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Li-D	mg/L	0.00109	0.00118	0.00050	0.00050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Hard-T	mg/L	33.8	34.4	0.50	0.50	1.8%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Se-T	mg/L	0.000044	0.000049	0.000040	0.000040		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	U-D	mg/L	0.0000080	0.0000074	0.0000020	0.0000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-2JUN25-R	2025-06-02	Zn-T	mg/L	0.00013	0.00017	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Zn-D	mg/L	0.00028	0.00033	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	V-D	mg/L	0.00024	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	U-T	mg/L	0.0000070	0.0000080	0.0000020	0.0000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Bicarb	mg/L	46	45	1.0	1.0	2.2%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	TSS	mg/L	<1.0	1.6	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Si-D	mg/L	1.77	1.76	0.050	0.050	0.6%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	SO4-D	mg/L	19	19	1.0	1.0	0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sr-T	mg/L	0.0601	0.0599	0.000050	0.000050	0.3%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sr-D	mg/L	0.0600	0.0606	0.000050	0.000050	1.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Na-T	mg/L	10.0	10.0	0.050	0.050	0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Na-D	mg/L	10.1	10.1	0.050	0.050	0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Si-T	mg/L	1.77	1.79	0.050	0.050	1.1%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	S-D	mg/L	7.2	6.6	3.0	3.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sb-D	mg/L	0.000022	<0.000020	0.000020	0.000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Al-T	mg/L	0.0120	0.0129	0.00050	0.00050	7.2%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Al-D	mg/L	0.00806	0.00862	0.00050	0.00050	6.7%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Alk-T	mg/L	37	37	1.0	1.0	0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cond-F	uS/cm	124	124			0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	pH-F	pH Units	7.53	7.53			0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Temp-F	C	14.8	14.8			0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	S-T	mg/L	6.4	6.5	3.0	3.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	As-T	mg/L	0.00136	0.00142	0.000020	0.000020	4.3%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Hard-D	mg/L	34.5	34.0	0.50	0.50	1.5%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	DOC	mg/L	2.0	2.0	0.50	0.50		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	SG	m	0.73	0.73			0.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cu-D	mg/L	0.000484	0.000456	0.000050	0.000050	6.0%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Co-T	mg/L	0.0000220	0.0000220	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Co-D	mg/L	0.0000154	0.0000220	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ca-T	mg/L	11.1	11.4	0.050	0.050	2.7%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ca-D	mg/L	11.6	11.4	0.050	0.050	1.7%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	As-D	mg/L	0.00120	0.00123	0.000020	0.000020	2.5%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	B-D	mg/L	0.050	0.049	0.010	0.010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	B-T	mg/L	0.045	0.044	0.010	0.010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Fe-D	mg/L	0.0474	0.0476	0.0010	0.0010	0.4%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ba-T	mg/L	0.00380	0.00388	0.000020	0.000020	2.1%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Ba-D	mg/L	0.00396	0.00383	0.000020	0.000020	3.3%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cu-T	mg/L	0.000494	0.000492	0.000050	0.000050	0.4%	FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-2JUN25-R	2025-06-02	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	As-D	mg/L	0.000935	0.000959	0.000020	0.000020	2.5%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	As-T	mg/L	0.00078	0.00083	0.00010	0.00010	6.2%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-30APR25-R	2025-04-30	Ba-D	mg/L	0.00406	0.00396	0.000020	0.000020	2.5%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ba-T	mg/L	0.0035	0.0034	0.0010	0.0010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Bicarb	mg/L	57	55	1.0	1.0	3.6%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cu-D	mg/L	0.000482	0.000478	0.000050	0.000050	0.8%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	B-T	mg/L	0.054	0.056	0.050	0.050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Al-T	mg/L	0.0182	0.0172	0.0030	0.0030	5.6%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ca-D	mg/L	14.2	14.1	0.050	0.050	0.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ca-T	mg/L	12.1	12.7	0.050	0.050	4.8%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Co-D	mg/L	0.0000340	0.0000380	0.0000050	0.0000050	11.1%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cond-F	uS/cm	181.1	181.1			0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	pH-F	pH Units	7.6	7.6			0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Temp-F	C	12.7	12.7			0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	S-T	mg/L	9.5	10.9	3.0	3.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	S-D	mg/L	12.2	13.6	3.0	3.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sb-D	mg/L	0.000021	<0.000020	0.000020	0.000020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Hard-D	mg/L	43.1	42.8	0.50	0.50	0.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	DOC	mg/L	2.0	2.3	0.50	0.50		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	SG	m	0.945	0.945			0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Alk-T	mg/L	47	45	1.0	1.0	4.3%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Al-D	mg/L	0.0112	0.0109	0.00050	0.00050	2.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Si-T	mg/L	1.67	1.75	0.10	0.10	4.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ag-D	mg/L	0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Na-D	mg/L	18.1	18.3	0.050	0.050	1.1%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Na-T	mg/L	15.3	16.2	0.050	0.050	5.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sr-D	mg/L	0.0920	0.0923	0.000050	0.000050	0.3%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sr-T	mg/L	0.0756	0.0786	0.0010	0.0010	3.9%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Cu-T	mg/L	0.00053	0.00053	0.00050	0.00050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Si-D	mg/L	2.14	2.13	0.050	0.050	0.5%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	B-D	mg/L	0.073	0.073	0.010	0.010	0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	SO4-D	mg/L	36	36	1.0	1.0	0.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	U-D	mg/L	0.0000080	0.0000070	0.0000020	0.0000020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	V-D	mg/L	0.00022	0.00021	0.00020	0.00020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Zn-D	mg/L	0.00096	0.00205	0.00010	0.00010	72.4%	TRUE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Hard-T	mg/L	36.7	38.5	0.50	0.50	4.8%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Fe-D	mg/L	0.120	0.118	0.0010	0.0010	1.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Fe-T	mg/L	0.172	0.181	0.010	0.010	5.1%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-30APR25-R	2025-04-30	Pb-D	mg/L	0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Li-D	mg/L	0.00140	0.00139	0.00050	0.00050		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mg-D	mg/L	1.84	1.86	0.050	0.050	1.1%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ni-D	mg/L	0.000093	0.000098	0.000020	0.000020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Se-D	mg/L	<0.000040	0.000055	0.000040	0.000040		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	K-T	mg/L	0.280	0.287	0.050	0.050	2.5%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	K-D	mg/L	0.326	0.335	0.050	0.050	2.7%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mg-T	mg/L	1.58	1.65	0.050	0.050	4.3%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mo-D	mg/L	0.000295	0.000454	0.000050	0.000050	42.5%	TRUE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mn-T	mg/L	0.0232	0.0239	0.0010	0.0010	3.0%	FALSE
QRDS1	QRDS1-30APR25-R	2025-04-30	Mn-D	mg/L	0.0250	0.0253	0.000050	0.000050	1.2%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-T	mg/L	0.00054	0.00054	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	SO4-D	mg/L	28	28	1	1	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sr-T	mg/L	0.0676	0.0676	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sr-D	mg/L	0.0646	0.0646	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Na-T	mg/L	13	13	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	U-T	mg/L	0.0000079	0.0000079	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	V-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Si-T	mg/L	2.37	2.37	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Si-D	mg/L	2.29	2.29	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Se-T	mg/L	0.00006	0.00006	0.00004	0.00004		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Se-D	mg/L	0.000042	0.000042	0.00004	0.00004		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	K-T	mg/L	0.25	0.25	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	K-D	mg/L	0.234	0.234	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	pH-L	pH Units	6.57	6.57			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ni-T	mg/L	0.000089	0.000089	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ni-D	mg/L	0.000087	0.000087	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mo-T	mg/L	0.000186	0.000186	0.00005	0.00005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mo-D	mg/L	0.000311	0.000311	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Na-D	mg/L	12.2	12.2	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ba-T	mg/L	0.00261	0.00265	0.00002	0.00002	1.5%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ba-D	mg/L	0.00242	0.00249	0.00002	0.00002	2.9%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	As-T	mg/L	0.000455	0.000457	0.00002	0.00002	0.4%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	As-D	mg/L	0.00042	0.000411	0.00002	0.00002	2.2%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Al-T	mg/L	0.0296	0.0282	0.0005	0.0005	4.8%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Al-D	mg/L	0.0198	0.0195	0.0005	0.0005	1.5%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Alk-T	mg/L	39	39	1	1	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cond-F	uS/cm	149.1	149.1			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	pH-F	pH Units	7.57	7.57			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	TSS	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mg-T	mg/L	1.52	1.52	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	S-T	mg/L	8.5	8.4	3	3		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	S-D	mg/L	7.6	7.8	3	3		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Acidity83	mg/L	2.7	2.8	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hard-D	mg/L	34.8	34.6	0.5	0.5	0.6%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	DOC	mg/L	2.7	2.7	0.5	0.5	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	SG	m	1.3	1.3			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zn-T	mg/L	0.00016	0.00016	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zn-D	mg/L	0.00116	0.00116	0.0001	0.0001	0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-8JAN26-R	2026-01-08	Temp-F	C	4.6	4.6			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Be-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ba-T	mg/L	0.00261	0.00261	0.00002	0.00002	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ba-D	mg/L	0.00242	0.00242	0.00002	0.00002	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	As-T	mg/L	0.000455	0.000455	0.00002	0.00002	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	As-D	mg/L	0.00042	0.00042	0.00002	0.00002	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sb-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sb-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Al-T	mg/L	0.0296	0.0296	0.0005	0.0005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Al-D	mg/L	0.0198	0.0198	0.0005	0.0005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Alk-T	mg/L	39	39	1	1	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cond-F	uS/cm	149.1	149.1			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mn-T	mg/L	0.0105	0.0105	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Temp-F	C	4.6	4.6			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bi-D	mg/L	<0.000050	<0.000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	S-T	mg/L	8.5	8.5	3	3		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	S-D	mg/L	7.6	7.6	3	3		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Acidity83	mg/L	2.7	2.7	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hard-D	mg/L	34.8	34.8	0.5	0.5	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	DOC	mg/L	2.7	2.7	0.5	0.5	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	SG	m	1.3	1.3			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	pH-F	pH Units	7.57	7.57			0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Co-D	mg/L	0.0000313	0.0000313	0.000005	0.000005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	V-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mg-D	mg/L	1.48	1.48	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Li-T	mg/L	0.00077	0.00077	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Li-D	mg/L	0.00069	0.00069	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Fe-T	mg/L	0.0834	0.0834	0.001	0.001	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Fe-D	mg/L	0.0393	0.0393	0.001	0.001	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hard-T	mg/L	35.5	35.5	0.5	0.5	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cu-T	mg/L	0.000594	0.000594	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Co-T	mg/L	0.0000397	0.0000397	0.000005	0.000005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bicarb	mg/L	47	47	1	1	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ca-T	mg/L	11.7	11.7	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ca-D	mg/L	11.5	11.5	0.05	0.05	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	B-D	mg/L	0.049	0.049	0.01	0.01		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	B-T	mg/L	0.051	0.051	0.01	0.01	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mn-D	mg/L	0.00932	0.00932	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cu-D	mg/L	0.00055	0.00055	0.00005	0.00005	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Se-D	mg/L	0.000042	0.000047	0.00004	0.00004		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mo-D	mg/L	0.000311	0.00028	0.00005	0.00005	10.5%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Na-D	mg/L	12.2	12.5	0.05	0.05	2.4%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ag-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ag-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Si-T	mg/L	2.37	2.43	0.05	0.05	2.5%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sr-D	mg/L	0.0646	0.0657	0.00005	0.00005	1.7%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Se-T	mg/L	0.00006	0.000051	0.00004	0.00004		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sr-T	mg/L	0.0676	0.0658	0.00005	0.00005	2.7%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	K-T	mg/L	0.25	0.246	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	K-D	mg/L	0.234	0.233	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	pH-L	pH Units	6.57	6.57			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ni-T	mg/L	0.000089	0.00008	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ni-D	mg/L	0.000087	0.000087	0.00002	0.00002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mo-T	mg/L	0.000186	0.000192	0.00005	0.00005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Si-D	mg/L	2.29	2.31	0.05	0.05	0.9%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-T	mg/L	0.00054	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	U-D	mg/L	0.0000076	0.0000076	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Be-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zn-T	mg/L	0.00016	0.00013	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	V-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	U-T	mg/L	0.0000079	0.0000068	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Na-T	mg/L	13	12.6	0.05	0.05	3.1%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	TSS	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	V-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sn-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Sn-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-T	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ti-D	mg/L	<0.0000020	<0.0000020	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	SO4-D	mg/L	28	28	1	1	0.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	U-D	mg/L	0.0000076	0.0000082	0.000002	0.000002		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ca-T	mg/L	11.7	11.9	0.05	0.05	1.7%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Ca-D	mg/L	11.5	11.4	0.05	0.05	0.9%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Co-D	mg/L	0.0000313	0.0000286	0.000005	0.000005	9.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	B-T	mg/L	0.051	0.05	0.01	0.01	2.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	B-D	mg/L	0.049	0.05	0.01	0.01		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bi-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mn-T	mg/L	0.0105	0.0106	0.00005	0.00005	0.9%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Zn-D	mg/L	0.00116	0.00108	0.0001	0.0001	7.1%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bi-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Bicar	mg/L	47	48	1	1	2.1%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cd-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Li-D	mg/L	0.00069	0.0007	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mn-D	mg/L	0.00932	0.00903	0.00005	0.00005	3.2%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mg-T	mg/L	1.52	1.54	0.05	0.05	1.3%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Co-T	mg/L	0.0000397	0.0000342	0.000005	0.000005	14.9%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Li-T	mg/L	0.00077	0.00078	0.0005	0.0005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Mg-D	mg/L	1.48	1.47	0.05	0.05	0.7%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Pb-T	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000005		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Fe-T	mg/L	0.0834	0.0893	0.001	0.001	6.8%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Fe-D	mg/L	0.0393	0.0357	0.001	0.001	9.6%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Hard-T	mg/L	35.5	36	0.5	0.5	1.4%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cu-T	mg/L	0.000594	0.000588	0.00005	0.00005	1.0%	FALSE
QRDS1	QRDS1-8JAN26-R	2026-01-08	Cu-D	mg/L	0.00055	0.000542	0.00005	0.00005	1.5%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Turb-F	NTU	5.78	5.78			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	DO-F	mg/L	-0.47	-0.47				FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	pH-F	pH Units	7.11	7.11			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Flow	m3/s	0.0044	0.0044			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Wlevel	m	44.55	44.55			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Alk-T	mg/L	280	270	1.0	1.0	3.6%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Temp-F	C	11.757	11.757			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Cond-F	uS/cm	869.6	869.6			0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	S-D	mg/L	60.2	59.1	3.0	3.0	1.8%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Hard-D	mg/L	262	267	0.50	0.50	1.9%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	DOC	mg/L	1.3	1.5	0.50	0.50		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	H2S	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU0513W	QU0513-8JUL25-R	2025-07-08	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	ORP-F	mV	-90.1	-90.1				FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	S2-T	mg/L	<0.0018	<0.0018	0.0018	0.0018		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Ni-D	mg/L	0.0019	0.0019	0.0010	0.0010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	K-D	mg/L	2.22	2.21	0.050	0.050	0.5%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Si-D	mg/L	3.32	3.46	0.10	0.10	4.1%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Na-D	mg/L	88.0	88.2	0.050	0.050	0.2%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	SO4-D	mg/L	170	170	5.0	5.0	0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Turb	NTU	17	17	0.10	0.10	0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	B-D	mg/L	0.291	0.287	0.050	0.050	1.4%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Sr-D	mg/L	0.620	0.641	0.0010	0.0010	3.3%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Ca-D	mg/L	81.9	83.8	0.050	0.050	2.3%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Ba-D	mg/L	0.0295	0.0296	0.0010	0.0010	0.3%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	As-D	mg/L	0.00339	0.00346	0.00010	0.00010	2.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Bicarb	mg/L	340	330	1.0	1.0	3.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Mn-D	mg/L	0.330	0.331	0.0010	0.0010	0.3%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Br-D	mg/L	0.043	0.042	0.010	0.010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Cl-D	mg/L	11	12	1.0	1.0	8.7%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Co-D	mg/L	0.00200	0.00198	0.00020	0.00020	1.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Cu-D	mg/L	0.00041	0.00043	0.00020	0.00020		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	F-D	mg/L	0.11	<0.050	0.050	0.050		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Fe-D	mg/L	1.36	1.36	0.0050	0.0050	0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Li-D	mg/L	0.0068	0.0067	0.0020	0.0020		FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Mg-D	mg/L	13.9	13.9	0.050	0.050	0.0%	FALSE
QU0513W	QU0513-8JUL25-R	2025-07-08	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	S2-T	mg/L	0.19	0.19	0.0018	0.0018	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Mn-D	mg/L	0.043	0.0432	0.001	0.001	0.5%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Mg-D	mg/L	11	11.1	0.05	0.05	0.9%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Li-D	mg/L	0.0479	0.0517	0.002	0.002	7.6%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Fe-D	mg/L	0.277	0.283	0.005	0.005	2.1%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	F-D	mg/L	0.56	0.58	0.05	0.05	3.5%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	SO4-D	mg/L	78	73	1	1	6.6%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Na-D	mg/L	46	46	0.05	0.05	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Cl-D	mg/L	9.4	9.5	1	1	1.1%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	pH-L	pH Units	7.89	7.81			1.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	K-D	mg/L	2.46	2.5	0.05	0.05	1.6%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Se-D	mg/L	0.00062	0.00051	0.0001	0.0001	19.5%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Turb	NTU	2.6	3.1	0.1	0.1	17.5%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Ca-D	mg/L	47.6	47.6	0.05	0.05	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Sat-F	%	-1.6	-1.6				FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Si-D	mg/L	4.03	4.01	0.1	0.1	0.5%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU0813A	QU0813A-13JAN26-R	2026-01-13	Temp-F	C	8.584	8.584			0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Turb-F	NTU	11.08	11.08			0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	H2S	mg/L	0.2	0.2	0.002	0.002	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Sr-D	mg/L	0.675	0.7	0.001	0.001	3.6%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	ORP-F	mV	-127.7	-127.7				FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	DOC	mg/L	<0.50	<0.50	0.5	0.5		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Hard-D	mg/L	164	164	0.5	0.5	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Acidity83	mg/L	1.2	1.4	1	1		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Cond-F	uS/cm	582	582			0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	As-D	mg/L	0.495	0.506	0.0001	0.0001	2.2%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Br-D	mg/L	0.019	0.018	0.01	0.01		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	B-D	mg/L	0.602	0.602	0.05	0.05	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Bicarb	mg/L	210	210	1	1	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	S-D	mg/L	29.2	30.1	3	3	3.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Ba-D	mg/L	0.147	0.151	0.001	0.001	2.7%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Alk-T	mg/L	170	170	1	1	0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	DO-F	mg/L	-0.19	-0.19				FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	pH-F	pH Units	7.4	7.4			0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Wlevel	m	7.46	7.46			0.0%	FALSE
QU0813A	QU0813A-13JAN26-R	2026-01-13	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Mn-D	mg/L	0.0428	0.0424	0.0010	0.0010	0.9%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Mg-D	mg/L	12.2	11.9	0.050	0.050	2.5%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Li-D	mg/L	0.0576	0.0553	0.0020	0.0020	4.1%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Fe-D	mg/L	0.238	0.223	0.0050	0.0050	6.5%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	F-D	mg/L	0.61	0.61	0.050	0.050	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	K-D	mg/L	2.58	2.51	0.050	0.050	2.8%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ti-D	mg/L	<0.000010	0.000011	0.000010	0.000010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Cl-D	mg/L	19	19	1.0	1.0	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Se-D	mg/L	0.00131	0.00129	0.00010	0.00010	1.5%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Si-D	mg/L	3.93	3.82	0.10	0.10	2.8%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Na-D	mg/L	63.5	62.9	0.050	0.050	0.9%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Sr-D	mg/L	0.715	0.694	0.0010	0.0010	3.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	S2-T	mg/L	0.25	0.25	0.0018	0.0018	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ca-D	mg/L	51.0	47.7	0.050	0.050	6.7%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	SO4-D	mg/L	87	87	1.0	1.0	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	pH-F	pH Units	7.6	7.6			0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Turb-F	NTU	27.73	27.73			0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	H2S	mg/L	0.26	0.27	0.0020	0.0020	3.8%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	ORP-F	mV	-197.4	-197.4				FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	DOC	mg/L	0.53	0.97	0.50	0.50		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Hard-D	mg/L	177	168	0.50	0.50	5.2%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	S-D	mg/L	35.6	34.8	3.0	3.0	2.3%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU0813A	QU0813A-17JUN25-R	2025-06-17	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Wlevel	m	8.12	8.12			0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Cond-F	uS/cm	599.2	599.2			0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	DO-F	mg/L	-0.41	-0.41				FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Alk-T	mg/L	210	210	1.0	1.0	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Al-D	mg/L	0.0148	0.0180	0.0030	0.0030	19.5%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	As-D	mg/L	0.407	0.397	0.00010	0.00010	2.5%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Ba-D	mg/L	0.188	0.182	0.0010	0.0010	3.2%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Bicarb	mg/L	250	250	1.0	1.0	0.0%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	B-D	mg/L	0.705	0.671	0.050	0.050	4.9%	FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Br-D	mg/L	0.028	0.028	0.010	0.010		FALSE
QU0813A	QU0813A-17JUN25-R	2025-06-17	Temp-F	C	10.219	10.219			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Mg-D	mg/L	11.3	11.3	0.05	0.05	0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Hard-D	mg/L	163	166	0.5	0.5	1.8%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	S-D	mg/L	32.3	32.1	3	3	0.6%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Temp-F	C	9.1	9.1			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Wlevel	m	9.26	9.26			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	pH-F	pH Units	7.57	7.57			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Cond-F	uS/cm	204	204			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	H2S	mg/L	0.17	0.17	0.002	0.002	0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	DO-F	mg/L	0.35	0.35			0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Alk-T	mg/L	170	160	1	1	6.1%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	As-D	mg/L	0.493	0.49	0.0001	0.0001	0.6%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ba-D	mg/L	0.165	0.163	0.001	0.001	1.2%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Bicarb	mg/L	200	200	1	1	0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Mn-D	mg/L	0.0494	0.0499	0.001	0.001	1.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	pH-L	pH Units	8.18	8.13			0.6%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	K-D	mg/L	2.44	2.42	0.05	0.05	0.8%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Li-D	mg/L	0.0561	0.0564	0.002	0.002	0.5%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Turb	NTU	3.8	3.6	0.1	0.1	5.4%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	S2-T	mg/L	0.16	0.16	0.0018	0.0018	0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	SO4-D	mg/L	85	85	1	1	0.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Sr-D	mg/L	0.703	0.696	0.001	0.001	1.0%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Se-D	mg/L	<0.00010	0.00016	0.0001	0.0001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	DOC	mg/L	0.82	0.71	0.5	0.5		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Na-D	mg/L	43.3	43.7	0.05	0.05	0.9%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	ORP-F	mV	-62.2	-62.2				FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Si-D	mg/L	3.84	3.89	0.1	0.1	1.3%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	B-D	mg/L	0.654	0.665	0.05	0.05	1.7%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Br-D	mg/L	0.017	0.017	0.01	0.01		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Ca-D	mg/L	46.7	47.8	0.05	0.05	2.3%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Cl-D	mg/L	8.2	8	1	1	2.5%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU0813A	QU0813A-5NOV25-R	2025-11-05	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	F-D	mg/L	0.61	0.59	0.05	0.05	3.3%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Fe-D	mg/L	0.284	0.287	0.005	0.005	1.1%	FALSE
QU0813A	QU0813A-5NOV25-R	2025-11-05	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Hard-D	mg/L	175	175	0.50	0.50	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Si-D	mg/L	4.16	4.17	0.10	0.10	0.2%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	ORP-F	mV	-98.3	-98.3				FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	F-D	mg/L	0.31	0.31	0.050	0.050	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Fe-D	mg/L	0.333	0.341	0.0050	0.0050	2.4%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Li-D	mg/L	0.0293	0.0298	0.0020	0.0020	1.7%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Mg-D	mg/L	10.3	10.1	0.050	0.050	2.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Mn-D	mg/L	0.0841	0.0838	0.0010	0.0010	0.4%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Mo-D	mg/L	0.0019	0.0020	0.0010	0.0010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Cl-D	mg/L	2.0	1.6	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Ca-D	mg/L	53.0	53.2	0.050	0.050	0.4%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Na-D	mg/L	32.8	32.8	0.050	0.050	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Sr-D	mg/L	0.396	0.396	0.0010	0.0010	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	SO4-D	mg/L	120	110	1.0	1.0	8.7%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	S2-T	mg/L	0.021	0.021	0.0018	0.0018	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Turb	NTU	3.1	2.9	0.10	0.10	6.7%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	K-D	mg/L	1.59	1.58	0.050	0.050	0.6%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Cond-F	uS/cm	513.5	513.5			0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Turb-F	NTU	796.91	796.91			0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	H2S	mg/L	0.022	0.022	0.0020	0.0020	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	DOC	mg/L	1.2	1.2	0.50	0.50		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Acidity83	mg/L	<1.0	1.6	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	S-D	mg/L	39.6	38.4	3.0	3.0	3.1%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Temp-F	C	10.512	10.512			0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	pH-F	pH Units	7.72	7.72			0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	DO-F	mg/L	-0.42	-0.42				FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Alk-T	mg/L	140	130	1.0	1.0	7.4%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	As-D	mg/L	0.538	0.538	0.00010	0.00010	0.0%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Ba-D	mg/L	0.0704	0.0713	0.0010	0.0010	1.3%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Bicarb	mg/L	170	160	1.0	1.0	6.1%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	B-D	mg/L	0.334	0.339	0.050	0.050	1.5%	FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0813B	QU0813B-15JUL25-R	2025-07-15	Wlevel	m	5.67	5.67			0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	As-D	mg/L	0.581	0.588	0.00010	0.00010	1.2%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Cl-D	mg/L	1.0	1.3	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Ca-D	mg/L	65.9	63.0	0.050	0.050	4.5%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LODL1	LODL2	RPD %	True RPD >20%
QU0813B	QU0813B-23SEP25-R	2025-09-23	B-D	mg/L	0.326	0.324	0.050	0.050	0.6%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Bicarb	mg/L	160	160	1.0	1.0	0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Ba-D	mg/L	0.0797	0.0796	0.0010	0.0010	0.1%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Fe-D	mg/L	0.400	0.386	0.0050	0.0050	3.6%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Al-D	mg/L	0.0135	0.0110	0.0030	0.0030		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Alk-T	mg/L	130	130	1.0	1.0	0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Cond-F	uS/cm	256.9	256.9			0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Wlevel	m	6.67	6.67			0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Temp-F	C	9.5	9.5			0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	S-D	mg/L	49.4	46.5	3.0	3.0	6.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Si-D	mg/L	4.69	4.48	0.10	0.10	4.6%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Turb	NTU	10	10	0.10	0.10	0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	S2-T	mg/L	0.0099	0.012	0.0018	0.0018	19.2%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	SO4-D	mg/L	140	140	5.0	5.0	0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Sr-D	mg/L	0.472	0.477	0.0010	0.0010	1.1%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	F-D	mg/L	0.33	0.33	0.050	0.050	0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	K-D	mg/L	1.91	1.84	0.050	0.050	3.7%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	pH-L	pH Units	8.17	8.15			0.2%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Mo-D	mg/L	0.0021	0.0021	0.0010	0.0010		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Mn-D	mg/L	0.0903	0.0911	0.0010	0.0010	0.9%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Mg-D	mg/L	11.0	10.7	0.050	0.050	2.8%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Li-D	mg/L	0.0296	0.0294	0.0020	0.0020	0.7%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	pH-F	pH Units	7.66	7.66			0.0%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Na-D	mg/L	31.5	30.8	0.050	0.050	2.2%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Hard-D	mg/L	210	201	0.50	0.50	4.4%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	DOC	mg/L	0.99	1.1	0.50	0.50		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	ORP-F	mV	-71.6	-71.6				FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	H2S	mg/L	0.011	0.013	0.0020	0.0020	16.7%	FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU0813B	QU0813B-23SEP25-R	2025-09-23	DO-F	mg/L	0.3	0.3			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	S2-T	mg/L	0.022	0.025	0.0018	0.0018	12.8%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	SO4-D	mg/L	98	99	1	1	1.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Acidity83	mg/L	5.7	5.4	1	1	5.4%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Sr-D	mg/L	0.272	0.264	0.001	0.001	3.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Na-D	mg/L	9.4	9.61	0.05	0.05	2.2%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Si-D	mg/L	9.07	8.63	0.1	0.1	5.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Turb-F	NTU	80.93	80.93			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	K-D	mg/L	0.671	0.667	0.05	0.05	0.6%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	pH-L	pH Units	7.73	7.78			0.6%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Mg-D	mg/L	10.6	11	0.05	0.05	3.7%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	H2S	mg/L	0.023	0.027	0.002	0.002	16.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	ORP-F	mV	177.8	177.8			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	DOC	mg/L	1.5	1.5	0.5	0.5		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Hard-D	mg/L	232	219	0.5	0.5	5.8%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1009S	QU1009S-12AUG25-R	2025-08-12	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Temp-F	C	12.39	12.39			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	S-D	mg/L	36.5	36.5	3	3	0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Turb	NTU	29	37	0.1	0.1	24.2%	TRUE
QU1009S	QU1009S-12AUG25-R	2025-08-12	B-D	mg/L	0.067	0.061	0.05	0.05		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Wlevel	m	3.57	3.57			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	pH-F	pH Units	6.99	6.99			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Cond-F	uS/cm	507.8	507.8			0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	DO-F	mg/L	-0.32	-0.32				FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Alk-T	mg/L	140	140	1	1	0.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Al-D	mg/L	0.0141	0.0141	0.003	0.003		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	As-D	mg/L	0.086	0.0833	0.0001	0.0001	3.2%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Ba-D	mg/L	0.123	0.12	0.001	0.001	2.5%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Br-D	mg/L	0.023	0.023	0.01	0.01		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Ca-D	mg/L	75.5	69.7	0.05	0.05	8.0%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Fe-D	mg/L	4.79	4.44	0.005	0.005	7.6%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Li-D	mg/L	0.0134	0.0132	0.002	0.002	1.5%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Mn-D	mg/L	0.372	0.377	0.001	0.001	1.3%	FALSE
QU1009S	QU1009S-12AUG25-R	2025-08-12	Bicarb	mg/L	170	170	1	1	0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	ORP-F	mV	27.9	27.9			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Temp-F	C	8.8	8.8			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Cd-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Br-D	mg/L	0.021	0.020	0.010	0.010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	B-D	mg/L	1.31	1.36	0.10	0.10	3.7%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Bi-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Bicarb	mg/L	640	640	1.0	1.0	0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Be-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ba-D	mg/L	0.0442	0.0477	0.0020	0.0020	7.6%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	As-D	mg/L	0.00091	0.00075	0.00020	0.00020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Sb-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Alk-T	mg/L	520	520	1.0	1.0	0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Cond-F	uS/cm	2544	2544			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ca-D	mg/L	192	198	0.10	0.10	3.1%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Wlevel	m	55.8	55.8			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Al-D	mg/L	<0.0060	<0.0060	0.0060	0.0060		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Zr-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	S-D	mg/L	313	336	6.0	6.0	7.1%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Acidity83	mg/L	1.9	2.2	1.0	1.0		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Zn-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Hard-D	mg/L	557	579	0.50	0.50	3.9%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	DOC	mg/L	1.0	0.99	0.50	0.50		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	H2S	mg/L	0.037	0.0029	0.0020	0.0020	170.9%	TRUE
QU1013D	QU1013D-20AUG25-R	2025-08-20	pH-F	pH Units	6.67	6.67			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ag-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	V-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	U-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1013D	QU1013D-20AUG25-R	2025-08-20	Turb	NTU	40	39	0.10	0.10	2.5%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ti-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	DO-F	mg/L	3.43	3.43			0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Cl-D	mg/L	8.8	8.8	1.0	1.0	0.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ti-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	S2-T	mg/L	0.035	0.0027	0.0018	0.0018	171.4%	TRUE
QU1013D	QU1013D-20AUG25-R	2025-08-20	SO4-D	mg/L	870	840	10	10	3.5%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Na-D	mg/L	441	473	0.10	0.10	7.0%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Sn-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Si-D	mg/L	4.61	4.91	0.20	0.20	6.3%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Se-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	K-D	mg/L	5.43	5.82	0.10	0.10	6.9%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Fe-D	mg/L	4.71	4.99	0.010	0.010	5.8%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Cr-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Co-D	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Cu-D	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Sr-D	mg/L	2.02	2.07	0.0020	0.0020	2.4%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	F-D	mg/L	0.088	0.083	0.050	0.050		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	pH-L	pH Units	7.69	7.73			0.5%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Pb-D	mg/L	<0.00040	<0.00040	0.00040	0.00040		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Ni-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Mg-D	mg/L	18.9	20.2	0.10	0.10	6.6%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Mn-D	mg/L	0.724	0.776	0.0020	0.0020	6.9%	FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Mo-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
QU1013D	QU1013D-20AUG25-R	2025-08-20	Li-D	mg/L	0.0087	0.0090	0.0040	0.0040		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	pH-L	pH Units	8.22	8.22			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ti-D	mg/L	<0.0000040	<0.0000040	0.000004	0.000004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	S2-T	mg/L	0.01	0.01	0.0018	0.0018	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	SO4-D	mg/L	950	950	10	10	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sr-D	mg/L	2.55	2.55	0.0001	0.0001	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Na-D	mg/L	386	386	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ag-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Si-D	mg/L	4	4	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cu-D	mg/L	0.00021	0.00021	0.0001	0.0001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	K-D	mg/L	6.28	6.28	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	U-D	mg/L	0.00004	0.00004	0.000004	0.000004	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ni-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mo-D	mg/L	0.00027	0.00027	0.0001	0.0001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mn-D	mg/L	0.993	0.993	0.0001	0.0001	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mg-D	mg/L	28.1	28.1	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Li-D	mg/L	0.0138	0.0138	0.001	0.001	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Pb-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Fe-D	mg/L	8.56	8.56	0.002	0.002	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Zn-D	mg/L	0.00101	0.00158	0.0002	0.0002	44.0%	TRUE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Se-D	mg/L	<0.000080	<0.000080	0.00008	0.00008		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	V-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	DO-F	mg/L	1.18	1.18			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cond-F	uS/cm	2785	2785			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	pH-F	pH Units	6.62	6.62			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Wlevel	m	31.74	31.74			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Temp-F	C	8.9	8.9			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	S-D	mg/L	389	382	6	6	1.8%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sn-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Acidity83	mg/L	7.7	8.4	1	1	8.7%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ti-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Hard-D	mg/L	780	767	0.5	0.5	1.7%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	pH-F	pH Units	6.62	6.62			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	ORP-F	mV	15.4	15.4			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	H2S	mg/L	0.011	0.011	0.002	0.002	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Zn-D	mg/L	0.00101	0.00101	0.0002	0.0002	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	V-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Co-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	DOC	mg/L	0.96	0.96	0.5	0.5		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1013D	QU1013D-21MAY25-R	2025-05-21	F-D	mg/L	0.054	0.051	0.05	0.05		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Fe-D	mg/L	8.56	7.9	0.002	0.002	8.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Pb-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Li-D	mg/L	0.0138	0.0134	0.001	0.001	2.9%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mg-D	mg/L	28.1	26.9	0.1	0.1	4.4%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mn-D	mg/L	0.993	0.967	0.0001	0.0001	2.7%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Mo-D	mg/L	0.00027	0.00027	0.0001	0.0001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	F-D	mg/L	0.054	0.054	0.05	0.05		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	ORP-F	mV	15.4	15.4			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cu-D	mg/L	0.00021	0.00018	0.0001	0.0001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Hard-D	mg/L	780	780	0.5	0.5	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	S-D	mg/L	389	389	6	6	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Temp-F	C	8.9	8.9			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Wlevel	m	31.74	31.74			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	H2S	mg/L	0.011	0.011	0.002	0.002	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	As-D	mg/L	0.00251	0.00251	0.00004	0.00004	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cl-D	mg/L	7.2	7.2	1	1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ca-D	mg/L	266	266	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Br-D	mg/L	0.013	0.013	0.01	0.01		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	B-D	mg/L	1.14	1.14	0.02	0.02	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Bi-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Bicarb	mg/L	560	560	1	1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Acidity83	mg/L	7.7	7.7	1	1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ba-D	mg/L	0.0641	0.0641	0.00004	0.00004	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sb-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Al-D	mg/L	0.0014	0.0014	0.001	0.001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Alk-T	mg/L	460	460	1	1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ni-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	DO-F	mg/L	1.18	1.18			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cond-F	uS/cm	2785	2785			0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Co-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Be-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	S2-T	mg/L	0.01	0.01	0.0018	0.0018	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Alk-T	mg/L	460	470	1	1	2.2%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	DOC	mg/L	0.96	1	0.5	0.5		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	K-D	mg/L	6.28	6.09	0.1	0.1	3.1%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Se-D	mg/L	<0.000080	<0.000080	0.00008	0.00008		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Si-D	mg/L	4	3.87	0.1	0.1	3.3%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ag-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Na-D	mg/L	386	374	0.1	0.1	3.2%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	SO4-D	mg/L	950	960	10	10	1.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	pH-L	pH Units	8.22	8.2			0.2%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Tl-D	mg/L	<0.0000040	<0.0000040	0.000004	0.000004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sn-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ti-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	U-D	mg/L	0.00004	0.000044	0.000004	0.000004	9.5%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	As-D	mg/L	0.00251	0.00226	0.00004	0.00004	10.5%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Al-D	mg/L	0.0014	<0.0010	0.001	0.001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sr-D	mg/L	2.55	2.36	0.0001	0.0001	7.7%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Sb-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ba-D	mg/L	0.0641	0.0594	0.00004	0.00004	7.6%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Be-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Bicarb	mg/L	560	580	1	1	3.5%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	B-D	mg/L	1.14	1.14	0.02	0.02	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Br-D	mg/L	0.013	0.014	0.01	0.01		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Ca-D	mg/L	266	263	0.1	0.1	1.1%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Cl-D	mg/L	7.2	7.2	1	1	0.0%	FALSE
QU1013D	QU1013D-21MAY25-R	2025-05-21	Bi-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1013D	QU1013D-23OCT25-R	2025-10-23	As-D	mg/L	0.00053	0.0005	0.0002	0.0002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Ba-D	mg/L	0.0452	0.0444	0.002	0.002	1.8%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	B-D	mg/L	1.13	1.14	0.1	0.1	0.9%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Ca-D	mg/L	210	210	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Br-D	mg/L	0.021	0.019	0.01	0.01		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Bicarb	mg/L	650	650	1	1	0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Alk-T	mg/L	530	530	1	1	0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	DO-F	mg/L	1.02	1.02			0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Cond-F	uS/cm	3801	3801			0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	pH-F	pH Units	6.76	6.76			0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Wlevel	m	54.05	54.05			0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Temp-F	C	8.8	8.8			0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	S-D	mg/L	373	372	6	6	0.3%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Cl-D	mg/L	9.5	9.5	1	1	0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	K-D	mg/L	5.81	5.93	0.1	0.1	2.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Turb	NTU	16	11	0.1	0.1	37.0%	TRUE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Hard-D	mg/L	602	603	0.5	0.5	0.2%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Tl-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	S2-T	mg/L	0.024	0.033	0.0018	0.0018	31.6%	TRUE
QU1013D	QU1013D-23OCT25-R	2025-10-23	SO4-D	mg/L	880	900	10	10	2.2%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Sr-D	mg/L	1.98	2.01	0.002	0.002	1.5%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Na-D	mg/L	454	454	0.1	0.1	0.0%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	pH-L	pH Units	7.93	7.86			0.9%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Mn-D	mg/L	0.772	0.784	0.002	0.002	1.5%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Mg-D	mg/L	19	19.3	0.1	0.1	1.6%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Li-D	mg/L	0.0084	0.0083	0.004	0.004		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Fe-D	mg/L	5	4.99	0.01	0.01	0.2%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	F-D	mg/L	0.091	0.081	0.05	0.05		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Cu-D	mg/L	<0.00040	0.00067	0.0004	0.0004		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Co-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Si-D	mg/L	5.19	5.3	0.2	0.2	2.1%	FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	DOC		0.8	0.8	0.5	0.5		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	ORP-F	mV	-51.6	-51.6				FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	H2S	mg/L	0.026	0.035	0.002	0.002	29.5%	TRUE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1013D	QU1013D-23OCT25-R	2025-10-23	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Cl-D	mg/L	13	1300	1	25		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Ca-D	mg/L	97.3	99.2	0.05	0.05	1.9%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Br-D	mg/L	0.024	2.17	0.01	0.1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	B-D	mg/L	1.34	1.32	0.05	0.05	1.5%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Bicarb	mg/L	560	370	1	1	40.9%	TRUE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Ba-D	mg/L	0.0615	0.0647	0.001	0.001	5.1%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105D	QU1105D-15JAN26-R	2026-01-15	F-D	mg/L	0.3	<0.050	0.05	0.05	142.9%	TRUE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Alk-T	mg/L	460	300	1	1	42.1%	TRUE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Hard-D	mg/L	294	299	0.5	0.5	1.7%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	DOC	mg/L	1.2	1.4	0.5	0.5		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	H2S	mg/L	0.24	38	0.002	0.38		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Acidity83	mg/L	<1.0	1.1	1	1		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	As-D	mg/L	0.107	0.112	0.0001	0.0001	4.6%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Si-D	mg/L	4.84	4.82	0.1	0.1	0.4%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Turb	NTU	19	23	0.1	0.1	19.0%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	S2-T	mg/L	0.23	36	0.0018	0.36		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	SO4-D	mg/L	420	280	5	5	40.0%	TRUE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Sr-D	mg/L	1.5	1.54	0.001	0.001	2.6%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Se-D	mg/L	0.00079	0.00095	0.0001	0.0001	18.4%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	K-D	mg/L	5.82	5.97	0.05	0.05	2.5%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	pH-L	pH Units	8.23	8.1			1.6%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Mn-D	mg/L	0.232	0.233	0.001	0.001	0.4%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Mg-D	mg/L	12.4	12.4	0.05	0.05	0.0%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Li-D	mg/L	0.0503	0.0496	0.002	0.002	1.4%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Fe-D	mg/L	2.15	2.13	0.005	0.005	0.9%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	Na-D	mg/L	284	290	0.05	0.05	2.1%	FALSE
QU1105D	QU1105D-15JAN26-R	2026-01-15	S-D	mg/L	174	176	3	3	1.1%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Cond-F	uS/cm	4376	4376			0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Alk-T	mg/L	300	260	1	1	14.3%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Al-D	mg/L	<0.015	<0.015	0.015	0.015		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Sb-D	mg/L	<0.0025	<0.0025	0.0025	0.0025		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	As-D	mg/L	0.00097	0.00053	0.0005	0.0005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Be-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Zr-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Bicarb	mg/L	370	320	1	1	14.5%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Bi-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	B-D	mg/L	0.49	0.47	0.25	0.25		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Ba-D	mg/L	0.151	0.15	0.005	0.005	0.7%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Br-D	mg/L	2.58	1.6	0.01	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	S-D	mg/L	120	121	15	15	0.8%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	DO-F	mg/L	0.32	0.32			0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Temp-F	C	9.2	9.2			0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Wlevel	m	9.36	9.36			0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Zn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Hard-D	mg/L	375	375	0.5	0.5	0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	DOC	mg/L	0.66	0.54	0.5	0.5		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	ORP-F	mV	-327.4	-327.4				FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	H2S	mg/L	49	45	1.9	1.9	8.5%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Sn-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	V-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	U-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	pH-F	pH Units	7.69	7.69			0.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Ti-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105D	QU1105D-9OCT25-R	2025-10-09	Cd-D	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Tl-D	mg/L	<0.000050	<0.000050	0.00005	0.00005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	S2-T	mg/L	46	43	1.8	1.8	6.7%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	SO4-D	mg/L	220	300	5	5	30.8%	TRUE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Sr-D	mg/L	1.75	1.78	0.005	0.005	1.7%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Na-D	mg/L	942	904	0.25	0.25	4.1%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Ag-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Si-D	mg/L	4.12	4.13	0.5	0.5	0.2%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Se-D	mg/L	0.0302	0.0374	0.0005	0.0005	21.3%	TRUE
QU1105D	QU1105D-9OCT25-R	2025-10-09	K-D	mg/L	4.4	4.35	0.25	0.25	1.1%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Cr-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Turb	NTU	120	76	0.1	0.1	44.9%	TRUE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Ni-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Cl-D	mg/L	1200	1300	25	25	8.0%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Co-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Cu-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	F-D	mg/L	<0.050	<0.050	0.05	0.05		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Fe-D	mg/L	<0.025	<0.025	0.025	0.025		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Mn-D	mg/L	0.092	0.0927	0.005	0.005	0.8%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Li-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Mg-D	mg/L	5.28	5.16	0.25	0.25	2.3%	FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Mo-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Pb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105D	QU1105D-9OCT25-R	2025-10-09	Ca-D	mg/L	141	142	0.25	0.25	0.7%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Wlevel	m	15.84	15.84			0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	pH-F	pH Units	7.51	7.51			0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Cond-F	uS/cm	302.4	302.4			0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	DO-F	mg/L	5.76	5.76			0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Alk-T	mg/L	170	170	1	1	0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	As-D	mg/L	0.0967	0.0933	0.0001	0.0001	3.6%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Temp-F	C	9.9	9.9			0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Hard-D	mg/L	74.3	73.6	0.5	0.5	0.9%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Ba-D	mg/L	0.0219	0.0213	0.001	0.001	2.8%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Al-D	mg/L	0.0102	0.0035	0.003	0.003		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	S-D	mg/L	27.9	27.3	3	3	2.2%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	DOC	mg/L	1	1.5	0.5	0.5		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	ORP-F	mV	-161.9	-161.9				FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	H2S	mg/L	0.16	0.17	0.002	0.002	6.1%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Bicarb	mg/L	200	200	1	1	0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Mn-D	mg/L	0.0809	0.0783	0.001	0.001	3.3%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Turb	NTU	2	1.9	0.1	0.1	5.1%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	S2-T	mg/L	0.15	0.16	0.0018	0.0018	6.5%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	SO4-D	mg/L	78	76	1	1	2.6%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Sr-D	mg/L	0.278	0.277	0.001	0.001	0.4%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Na-D	mg/L	80.2	76	0.05	0.05	5.4%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Si-D	mg/L	3.49	3.33	0.1	0.1	4.7%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Se-D	mg/L	0.0001	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	K-D	mg/L	2.47	2.35	0.05	0.05	5.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	pH-L	pH Units	8.26	8.25			0.1%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	B-D	mg/L	0.587	0.57	0.05	0.05	2.9%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Br-D	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Ca-D	mg/L	24.1	24	0.05	0.05	0.4%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105S	QU1105S-11SEP25-R	2025-09-11	Cl-D	mg/L	2.2	2.3	1	1		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	F-D	mg/L	0.32	0.32	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Fe-D	mg/L	0.759	0.634	0.005	0.005	17.9%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Li-D	mg/L	0.0306	0.0293	0.002	0.002	4.3%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Mg-D	mg/L	3.44	3.3	0.05	0.05	4.2%	FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-11SEP25-R	2025-09-11	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sr-D	mg/L	1.39	1.39	0.001	0.001	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Na-D	mg/L	329	329	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Si-D	mg/L	5.05	5.05	0.1	0.1	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Se-D	mg/L	0.00165	0.00165	0.0001	0.0001	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Acidity83	mg/L	19.3	22.7	1	1	16.2%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	pH-L	pH Units	8.04	8.04	0	0	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mn-D	mg/L	0.273	0.273	0.001	0.001	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mg-D	mg/L	14.6	14.6	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Li-D	mg/L	0.0464	0.0464	0.002	0.002	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Fe-D	mg/L	2.27	2.27	0.005	0.005	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	F-D	mg/L	0.29	0.29	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	K-D	mg/L	6.13	6.13	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Hard-D	mg/L	300	289	0.5	0.5	3.7%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	DOC	mg/L	0.97	<0.50	0.5	0.5		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	ORP-F	mV	-264.4	-264.4				FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	SO4-D	mg/L	470	470	5	5	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Turb-F	NTU	1.5	1.5			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	S2-T	mg/L	0.052	0.052	0.0018	0.0018	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	H2S	mg/L	0.055	0.058	0.002	0.002	5.3%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Hard-D	mg/L	300	300	0.5	0.5	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Temp-F	C	8.217	8.217			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	S-D	mg/L	184	184	3	3	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Acidity83	mg/L	19.3	19.3	1	1	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	pH-F	pH Units	7.03	7.03			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	DOC	mg/L	0.97	0.97	0.5	0.5		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	ORP-F	mV	-264.4	-264.4				FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	H2S	mg/L	0.055	0.055	0.002	0.002	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Turb-F	NTU	1.5	1.5			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ba-D	mg/L	0.0763	0.0763	0.001	0.001	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cl-D	mg/L	13	13	1	1	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ca-D	mg/L	96.3	96.3	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105S	QU1105S-12FEB26-R	2026-02-12	Br-D	mg/L	0.022	0.022	0.01	0.01		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	B-D	mg/L	1.62	1.62	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Bicarb	mg/L	580	580	1	1	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Wlevel	m	7.15	7.15			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Alk-T	mg/L	480	480	1	1	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	DO-F	mg/L	-0.65	-0.65				FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cond-F	uS/cm	1782.5	1782.5			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Br-D	mg/L	0.022	0.024	0.01	0.01		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Si-D	mg/L	5.05	4.87	0.1	0.1	3.6%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Se-D	mg/L	0.00165	0.00156	0.0001	0.0001	5.6%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	K-D	mg/L	6.13	6.27	0.05	0.05	2.3%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	pH-L	pH Units	8.04	7.98	0	0	0.7%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mn-D	mg/L	0.273	0.276	0.001	0.001	1.1%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Mg-D	mg/L	14.6	14.6	0.05	0.05	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Bicarb	mg/L	580	600	1	1	3.4%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	B-D	mg/L	1.62	1.56	0.05	0.05	3.8%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Li-D	mg/L	0.0464	0.0455	0.002	0.002	2.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ca-D	mg/L	96.3	91.8	0.05	0.05	4.8%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cl-D	mg/L	13	12	1	1	8.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cu-D	mg/L	<0.00020	0.00021	0.0002	0.0002		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	F-D	mg/L	0.29	0.28	0.05	0.05	3.5%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Fe-D	mg/L	2.27	2.2	0.005	0.005	3.1%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	As-D	mg/L	0.099	0.099	0.0001	0.0001	0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	S-D	mg/L	184	188	3	3	2.2%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Temp-F	C	8.217	8.217			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Wlevel	m	7.15	7.15			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	pH-F	pH Units	7.03	7.03			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Cond-F	uS/cm	1782.5	1782.5			0.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	DO-F	mg/L	-0.65	-0.65				FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Na-D	mg/L	329	324	0.05	0.05	1.5%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	As-D	mg/L	0.099	0.098	0.0001	0.0001	1.0%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ba-D	mg/L	0.0763	0.0757	0.001	0.001	0.8%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	SO4-D	mg/L	470	480	5	5	2.1%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Alk-T	mg/L	480	490	1	1	2.1%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	Sr-D	mg/L	1.39	1.37	0.001	0.001	1.4%	FALSE
QU1105S	QU1105S-12FEB26-R	2026-02-12	S2-T	mg/L	0.052	0.055	0.0018	0.0018	5.6%	FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	ORP-F	mV	-248.1	-248.1				FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	Cond-F	uS/cm	1821.2	1821.2			0.0%	FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	pH-F	pH Units	7.43	7.43			0.0%	FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	Wlevel	m	6.186	6.186			0.0%	FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	Temp-F	C	8.063	8.063			0.0%	FALSE
QU1105S	QU1105S-15JAN26-R	2026-01-15	DO-F	mg/L	-0.62	-0.62				FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Ca-D	mg/L	27.8	28.5	0.050	0.050	2.5%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	As-D	mg/L	0.101	0.101	0.00010	0.00010	0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Ba-D	mg/L	0.0299	0.0298	0.0010	0.0010	0.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Bicarb	mg/L	230	230	1.0	1.0	0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105S	QU1105S-19AUG25-R	2025-08-19	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	B-D	mg/L	0.764	0.745	0.050	0.050	2.5%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Mg-D	mg/L	4.18	4.31	0.050	0.050	3.1%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	DO-F	mg/L	1.01	1.01			0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Cl-D	mg/L	2.4	2.5	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	F-D	mg/L	0.32	0.32	0.050	0.050	0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Fe-D	mg/L	1.37	1.43	0.0050	0.0050	4.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Li-D	mg/L	0.0329	0.0325	0.0020	0.0020	1.2%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	H2S	mg/L	0.084	0.084	0.0020	0.0020	0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	ORP-F	mV	-70.2	-70.2				FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	DOC	mg/L	1.4	1.2	0.50	0.50		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Hard-D	mg/L	86.7	89.0	0.50	0.50	2.6%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Al-D	mg/L	<0.0030	0.0048	0.0030	0.0030		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Alk-T	mg/L	190	190	1.0	1.0	0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	S-D	mg/L	36.2	37.3	3.0	3.0	3.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Temp-F	C	14.6	14.6			0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Wlevel	m	13.11	13.11			0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	pH-F	pH Units	7.08	7.08			0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Cond-F	uS/cm	556.7	556.7			0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Turb	NTU	6.1	7.4	0.10	0.10	19.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	S2-T	mg/L	0.079	0.079	0.0018	0.0018	0.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Mn-D	mg/L	0.108	0.112	0.0010	0.0010	3.6%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	pH-L	pH Units	7.85	7.83			0.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	K-D	mg/L	2.58	2.66	0.050	0.050	3.1%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Si-D	mg/L	3.48	3.55	0.10	0.10	2.0%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Na-D	mg/L	92.3	95.4	0.050	0.050	3.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	Sr-D	mg/L	0.357	0.356	0.0010	0.0010	0.3%	FALSE
QU1105S	QU1105S-19AUG25-R	2025-08-19	SO4-D	mg/L	93	94	1.0	1.0	1.1%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	DO-F	mg/L	2.93	2.93			0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Alk-T	mg/L	410	400	1.0	1.0	2.5%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	As-D	mg/L	0.138	0.134	0.00010	0.00010	2.9%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Ba-D	mg/L	0.0535	0.0538	0.0010	0.0010	0.6%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	B-D	mg/L	1.47	1.64	0.050	0.050	10.9%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Bicarb	mg/L	500	470	1.0	1.0	6.2%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Cond-F	uS/cm	1620	1620			0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	pH-F	pH Units	7.15	7.15			0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Wlevel	m	12.36	12.36			0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Temp-F	C	11.3	11.3			0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	S-D	mg/L	97.7	109	3.0	3.0	10.9%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105S	QU1105S-30JUL25-R	2025-07-30	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Carb	mg/L	<1.0	9.9	1.0	1.0	163.3%	TRUE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Alk-PP	mg/L	<1.0	8.3	1.0	1.0	157.0%	TRUE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Hard-D	mg/L	202	218	0.50	0.50	7.6%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	ORP-F	mV	-8.2	-8.2				FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Ca-D	mg/L	65.3	70.3	0.050	0.050	7.4%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	H2S	mg/L	0.10	0.11	0.0020	0.0020	9.5%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	DOC	mg/L	1.3	1.4	0.50	0.50		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Se-D	mg/L	<0.00010	0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Cl-D	mg/L	12	12	1.0	1.0	0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Sr-D	mg/L	0.846	0.872	0.0010	0.0010	3.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	SO4-D	mg/L	300	300	5.0	5.0	0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	S2-T	mg/L	0.098	0.10	0.0018	0.0018	2.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Turb	NTU	20	18	0.10	0.10	10.5%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Na-D	mg/L	231	238	0.050	0.050	3.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Br-D	mg/L	0.026	0.026	0.010	0.010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Si-D	mg/L	4.09	4.67	0.10	0.10	13.2%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	K-D	mg/L	4.64	4.75	0.050	0.050	2.3%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Mn-D	mg/L	0.176	0.182	0.0010	0.0010	3.4%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Mg-D	mg/L	9.59	10.2	0.050	0.050	6.2%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Li-D	mg/L	0.0536	0.0618	0.0020	0.0020	14.2%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Fe-D	mg/L	1.99	2.10	0.0050	0.0050	5.4%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	F-D	mg/L	0.53	0.53	0.050	0.050	0.0%	FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
QU1105S	QU1105S-30JUL25-R	2025-07-30	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	S-D	mg/L	<6.0	<6.0	6	6		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Cond-F	uS/cm	280.8	280.8			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	DO-F	mg/L	0.05	0.05			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Alk-T	mg/L	160	160	1	1	0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Temp-F	C	7.602	7.602			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	As-D	mg/L	0.746	0.753	0.0002	0.0002	0.9%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	pH-F	pH Units	7.58	7.58			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	DOC	mg/L	<0.50	<0.50	0.5	0.5		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Turb-F	NTU	79.2	79.2			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Wlevel	m	24.09	24.09			0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ba-D	mg/L	0.105	0.104	0.002	0.002	1.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	H2S	mg/L	0.014	0.012	0.002	0.002	15.4%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	ORP-F	mV	-137.8	-137.8				FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Hard-D	mg/L	152	139	0.5	0.5	8.9%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Na-D	mg/L	10.6	9.82	0.1	0.1	7.6%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	pH-L	pH Units	7.95	7.86	0	0	1.1%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	K-D	mg/L	0.8	0.77	0.1	0.1	3.8%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LODL1	LODL2	RPD %	True RPD >20%
QU1136D	QU1136D-31MAR26-R	2026-03-31	Sr-D	mg/L	0.46	0.434	0.002	0.002	5.8%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	SO4-D	mg/L	12	12	1	1	0.0%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	S2-T	mg/L	0.014	0.012	0.0018	0.0018	15.4%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	B-D	mg/L	0.75	0.68	0.1	0.1	9.8%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Si-D	mg/L	5.27	4.74	0.2	0.2	10.6%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Mo-D	mg/L	<0.0020	0.0022	0.002	0.002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Cl-D	mg/L	<1.0	<1.0	1	1		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Bicarb	mg/L	190	200	1	1	5.1%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Mn-D	mg/L	0.029	0.0294	0.002	0.002	1.4%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Mg-D	mg/L	9.58	8.52	0.1	0.1	11.7%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Ca-D	mg/L	45.1	41.7	0.1	0.1	7.8%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Li-D	mg/L	0.0481	0.0502	0.004	0.004	4.3%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Co-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Fe-D	mg/L	0.528	0.521	0.01	0.01	1.3%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	F-D	mg/L	0.72	0.71	0.05	0.05	1.4%	FALSE
QU1136D	QU1136D-31MAR26-R	2026-03-31	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Sr-D	mg/L	0.589	0.594	0.001	0.001	0.8%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Si-D	mg/L	6.71	6.71	0.1	0.1	0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	K-D	mg/L	2.45	2.49	0.05	0.05	1.6%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Na-D	mg/L	43.7	44.6	0.05	0.05	2.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	SO4-D	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	S2-T	mg/L	0.07	0.067	0.0018	0.0018	4.4%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Turb	NTU	22	23	0.1	0.1	4.4%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	pH-L	pH Units	8.07	8.02	0	0	0.6%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	ORP-F	mV	-138	-138				FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Cond-F	uS/cm	350.7	350.7			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	pH-F	pH Units	7.8	7.8			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Wlevel	m	0.78	0.78			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Temp-F	C	7.854	7.854			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	S-D	mg/L	<3.0	<3.0	3	3		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Mn-D	mg/L	0.0333	0.0336	0.001	0.001	0.9%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	F-D	mg/L	0.77	0.78	0.05	0.05	1.3%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	H2S	mg/L	0.075	0.072	0.002	0.002	4.1%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	DOC	mg/L	<0.50	0.67	0.5	0.5		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Hard-D	mg/L	104	104	0.5	0.5	0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Carb	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Turb-F	NTU	740.45	740.45			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Mg-D	mg/L	7.17	7.45	0.05	0.05	3.8%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Fe-D	mg/L	0.277	0.276	0.005	0.005	0.4%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1319A	QU1319A-24MAR26-R	2026-03-24	Cl-D	mg/L	5.1	4.8	1	1	6.1%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	DO-F	mg/L	0.43	0.43			0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Alk-T	mg/L	210	210	1	1	0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	B-D	mg/L	0.998	1.02	0.05	0.05	2.2%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Bicarb	mg/L	260	260	1	1	0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ba-D	mg/L	0.223	0.223	0.001	0.001	0.0%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	As-D	mg/L	0.0244	0.0241	0.0001	0.0001	1.2%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Ca-D	mg/L	29.7	29.5	0.05	0.05	0.7%	FALSE
QU1319A	QU1319A-24MAR26-R	2026-03-24	Li-D	mg/L	0.0348	0.0361	0.002	0.002	3.7%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Cond-F	uS/cm	216.9	216.9			0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Cl-D	mg/L	3.6	4	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Ca-D	mg/L	29.7	29	0.05	0.05	2.4%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Fe-D	mg/L	0.255	0.249	0.005	0.005	2.4%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	B-D	mg/L	0.95	0.939	0.05	0.05	1.2%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Bicarb	mg/L	250	250	1	1	0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Ba-D	mg/L	0.241	0.245	0.001	0.001	1.6%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	As-D	mg/L	0.0248	0.0244	0.0001	0.0001	1.6%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Alk-T	mg/L	210	210	1	1	0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	DO-F	mg/L	0.17	0.17			0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Br-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Na-D	mg/L	48.5	47.4	0.05	0.05	2.3%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Turb	NTU	14	17	0.1	0.1	19.4%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	S2-T	mg/L	0.062	0.06	0.0018	0.0018	3.3%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	F-D	mg/L	0.78	0.77	0.05	0.05	1.3%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Sr-D	mg/L	0.559	0.562	0.001	0.001	0.5%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	pH-L	pH Units	8.24	8.14			1.2%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Si-D	mg/L	6.73	6.58	0.1	0.1	2.3%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	K-D	mg/L	2.72	2.7	0.05	0.05	0.7%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Mn-D	mg/L	0.027	0.027	0.001	0.001	0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Mg-D	mg/L	8.39	8.11	0.05	0.05	3.4%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Li-D	mg/L	0.0325	0.0331	0.002	0.002	1.8%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	SO4-D	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	DOC	mg/L	0.51	<0.50	0.5	0.5		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	pH-F	pH Units	7.26	7.26			0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	ORP-F	mV	-83.2	-83.2				FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Hard-D	mg/L	109	106	0.5	0.5	2.8%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	S-D	mg/L	<3.0	<3.0	3	3		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Temp-F	C	8.1	8.1			0.0%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Carb	mg/L	<1.0	<1.0	1	1		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1319A	QU1319A-4DEC25-R	2025-12-04	H2S	mg/L	0.066	0.064	0.002	0.002	3.1%	FALSE
QU1319A	QU1319A-4DEC25-R	2025-12-04	Wlevel	m	2.67	2.67			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	As-T	mg/L	0.00225	0.00212	0.0002	0.0002	5.9%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	SO4-D	mg/L	690	750	10	10	8.3%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sr-T	mg/L	1.82	1.67	0.002	0.002	8.6%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sr-D	mg/L	1.86	1.76	0.002	0.002	5.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Na-T	mg/L	382	369	0.1	0.1	3.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Na-D	mg/L	397	379	0.1	0.1	4.6%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Tl-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	U-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Tl-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Si-T	mg/L	3.42	3.17	0.2	0.2	7.6%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	TSS	mg/L	20	20	1	1	0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mn-D	mg/L	0.934	0.862	0.002	0.002	8.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Fe-T	mg/L	8.56	7.85	0.02	0.02	8.7%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Fe-D	mg/L	8.66	8.32	0.01	0.01	4.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Hard-T	mg/L	516	478	0.5	0.5	7.6%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cu-T	mg/L	0.0024	0.0021	0.001	0.001		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Li-D	mg/L	0.0174	0.0164	0.004	0.004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Li-T	mg/L	0.0165	0.0151	0.004	0.004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mg-T	mg/L	20.4	19	0.1	0.1	7.1%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Si-D	mg/L	3.5	3.34	0.2	0.2	4.7%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mn-T	mg/L	0.907	0.836	0.002	0.002	8.1%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	As-D	mg/L	0.00213	0.002	0.0002	0.0002	6.3%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	pH-L	pH Units	7.86	7.84			0.3%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	K-D	mg/L	6.22	6.09	0.1	0.1	2.1%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	K-T	mg/L	6.12	5.74	0.1	0.1	6.4%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Mg-D	mg/L	21.4	20.5	0.1	0.1	4.3%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	S-D	mg/L	300	284	6	6	5.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	B-D	mg/L	1.21	1.1	0.1	0.1	9.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Bicarb	mg/L	610	610	1	1	0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	S-T	mg/L	291	273	6	6	6.4%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Carb	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	B-T	mg/L	1.16	1	0.1	0.1	14.8%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Hard-D	mg/L	528	495	0.5	0.5	6.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	ORP-F	mV	118.8	118.8			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Tot.		86830547	86830547			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ba-T	mg/L	0.0174	0.0168	0.002	0.002	3.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Turb-F	NTU	9.84	9.84			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ba-D	mg/L	0.018	0.0169	0.002	0.002	6.3%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Acidity83	mg/L	14.8	7	1	1	71.6%	TRUE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBP1	RBP1-14DEC25-R	2025-12-14	Ca-T	mg/L	173	160	0.1	0.1	7.8%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Co-T	mg/L	0.00081	0.00079	0.0004	0.0004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Co-D	mg/L	0.00084	0.00082	0.0004	0.0004		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Ca-D	mg/L	176	165	0.1	0.1	6.5%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Al-T	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Temp-F	C	9.488	9.488			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Flow	m3/s	0.071166	0.071166			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Sat-F	%	45.1	45.1			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	pH-F	pH Units	6.76	6.76			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Cond-F	uS/cm	2254.3	2254.3			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	DO-F	mg/L	5.05	5.05			0.0%	FALSE
RBP1	RBP1-14DEC25-R	2025-12-14	Alk-T	mg/L	500	500	1	1	0.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Hard-D	mg/L	399	381	0.5	0.5	4.6%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ba-D	mg/L	0.0186	0.018	0.001	0.001	3.3%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	As-T	mg/L	0.002	0.00198	0.0001	0.0001	1.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	As-D	mg/L	0.00201	0.00207	0.0001	0.0001	2.9%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ba-T	mg/L	0.0191	0.0189	0.001	0.001	1.1%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Al-T	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Flow	m3/s	0.06492	0.06492			0.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	S-T	mg/L	224	214	3	3	4.6%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	S-D	mg/L	226	201	3	3	11.7%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	SO4-D	mg/L	660	650	10	10	1.5%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ni-D	mg/L	0.0032	0.0033	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ni-T	mg/L	0.003	0.0032	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	K-D	mg/L	4.8	4.59	0.05	0.05	4.5%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	K-T	mg/L	4.94	4.85	0.05	0.05	1.8%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Si-D	mg/L	3.04	2.49	0.1	0.1	19.9%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Si-T	mg/L	2.96	2.97	0.1	0.1	0.3%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Na-D	mg/L	311	289	0.05	0.05	7.3%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Na-T	mg/L	316	308	0.05	0.05	2.6%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sr-T	mg/L	1.34	1.33	0.001	0.001	0.7%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Tot.		88914219	88914219			0.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Sr-D	mg/L	1.32	1.22	0.001	0.001	7.9%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ca-T	mg/L	128	128	0.05	0.05	0.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBP1	RBP1-18MAR26-R	2026-03-18	B-T	mg/L	1.07	1.14	0.05	0.05	6.3%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	B-D	mg/L	1.04	1.2	0.05	0.05	14.3%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Ca-D	mg/L	133	128	0.05	0.05	3.8%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Co-D	mg/L	0.0023	0.00239	0.0002	0.0002	3.8%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Co-T	mg/L	0.0023	0.00236	0.0002	0.0002	2.6%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cu-D	mg/L	0.00026	0.00031	0.0002	0.0002		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Li-T	mg/L	0.0127	0.0126	0.002	0.002	0.8%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mn-T	mg/L	0.715	0.703	0.001	0.001	1.7%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mn-D	mg/L	0.695	0.715	0.001	0.001	2.8%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cd-T	mg/L	0.00001	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Cu-T	mg/L	0.00193	0.00196	0.0005	0.0005		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mg-T	mg/L	16.4	16	0.05	0.05	2.5%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Mg-D	mg/L	16.3	14.6	0.05	0.05	11.0%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Li-D	mg/L	0.0121	0.0109	0.002	0.002	10.4%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Fe-D	mg/L	3.14	3.09	0.005	0.005	1.6%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Fe-T	mg/L	3.27	3.23	0.01	0.01	1.2%	FALSE
RBP1	RBP1-18MAR26-R	2026-03-18	Hard-T	mg/L	388	387	0.5	0.5	0.3%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Li-D	mg/L	0.014	0.0135	0.004	0.004		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	K-T	mg/L	5.36	5.84	0.05	0.05	8.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	K-D	mg/L	5.74	5.95	0.1	0.1	3.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	pH-L	pH Units	7.81	7.78			0.4%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ni-T	mg/L	0.0015	0.0017	0.001	0.001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mn-D	mg/L	0.765	0.765	0.002	0.002	0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mg-T	mg/L	18.6	20.9	0.05	0.05	11.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Li-T	mg/L	0.0131	0.014	0.002	0.002	6.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Si-D	mg/L	2.97	2.91	0.2	0.2	2.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Fe-T	mg/L	5.55	5.83	0.01	0.01	4.9%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Fe-D	mg/L	5.71	5.65	0.01	0.01	1.1%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Hard-T	mg/L	436	462	0.5	0.5	5.8%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	F-D	mg/L	0.054	0.069	0.05	0.05		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cu-T	mg/L	0.00189	0.00217	0.0005	0.0005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	pH-F	pH Units	6.81	6.81			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mg-D	mg/L	17.5	17.6	0.1	0.1	0.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	TSS	mg/L	6.4	12	1	1	60.9%	TRUE
RBP1	RBP1-23DEC25-R	2025-12-23	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	SO4-D	mg/L	670	720	10	10	7.2%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sr-T	mg/L	1.57	1.59	0.001	0.001	1.3%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sr-D	mg/L	1.46	1.49	0.002	0.002	2.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Na-T	mg/L	360	385	0.05	0.05	6.7%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Na-D	mg/L	358	356	0.1	0.1	0.6%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Si-T	mg/L	3.19	3.36	0.1	0.1	5.2%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Alk-T	mg/L	480	480	1	1	0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBP1	RBP1-23DEC25-R	2025-12-23	Co-T	mg/L	0.00099	0.00113	0.0002	0.0002	13.2%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cond-F	uS/cm	2107.5	2107.5			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Acidity83	mg/L	14.1	14.8	1	1	4.8%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	S-D	mg/L	255	256	6	6	0.4%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	S-T	mg/L	265	281	3	3	5.9%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Flow	m3/s	0.066623247	0.066623247			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Co-D	mg/L	0.00125	0.00125	0.0004	0.0004		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cl-D	mg/L	7.5	7.4	1	1	1.3%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ca-T	mg/L	144	151	0.05	0.05	4.7%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ca-D	mg/L	151	149	0.1	0.1	1.3%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Br-D	mg/L	0.014	0.013	0.01	0.01		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Temp-F	C	9.108	9.108			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	B-D	mg/L	0.95	0.89	0.1	0.1	6.5%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Al-T	mg/L	0.0034	0.0038	0.003	0.003		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	As-D	mg/L	0.00212	0.002	0.0002	0.0002	5.8%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	As-T	mg/L	0.00201	0.00215	0.0001	0.0001	6.7%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ba-D	mg/L	0.0164	0.0161	0.002	0.002	1.8%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Ba-T	mg/L	0.0151	0.016	0.001	0.001	5.8%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Carb	mg/L	<1.0	<1.0	1	1		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	DO-F	mg/L	7.91	7.91			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Bicarb	mg/L	590	590	1	1	0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	B-T	mg/L	1.19	1.08	0.05	0.05	9.7%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Turb-F	NTU	23.14	23.14			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Tot.		773680	773680			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	ORP-F	mV	193.8	193.8			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	DOC	mg/L	1.1	1	0.5	0.5		FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Hard-D	mg/L	449	443	0.5	0.5	1.3%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Sat-F	%	69.3	69.3			0.0%	FALSE
RBP1	RBP1-23DEC25-R	2025-12-23	Mn-T	mg/L	0.679	0.747	0.001	0.001	9.5%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Li-D	mg/L	0.0167	0.0172	0.002	0.002	2.9%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	K-T	mg/L	5.84	6.14	0.1	0.1	5.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	K-D	mg/L	5.95	5.96	0.05	0.05	0.2%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Mn-T	mg/L	0.867	0.881	0.002	0.002	1.6%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Mn-D	mg/L	0.909	0.9	0.001	0.001	1.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Mg-T	mg/L	21	21.5	0.1	0.1	2.4%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Li-T	mg/L	0.0165	0.0163	0.004	0.004		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Si-D	mg/L	3.45	3.23	0.1	0.1	6.6%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Fe-D	mg/L	9.8	9.1	0.005	0.005	7.4%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cu-T	mg/L	<0.0010	0.0015	0.001	0.001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cu-D	mg/L	0.00111	<0.00020	0.0002	0.0002	138.9%	TRUE
RBP1	RBP1-5DEC25-R	2025-12-05	Co-T	mg/L	0.00074	0.00077	0.0004	0.0004		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Co-D	mg/L	0.00077	0.00079	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBP1	RBP1-5DEC25-R	2025-12-05	Mg-D	mg/L	21.6	21.1	0.05	0.05	2.3%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Tl-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Zn-T	mg/L	0.011	<0.010	0.01	0.01		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Zn-D	mg/L	0.0092	0.0096	0.005	0.005		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Tl-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Se-D	mg/L	0.00088	0.00094	0.0001	0.0001	6.6%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sr-T	mg/L	1.77	1.8	0.002	0.002	1.7%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sr-D	mg/L	1.83	1.85	0.001	0.001	1.1%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Na-T	mg/L	397	401	0.1	0.1	1.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Na-D	mg/L	377	388	0.05	0.05	2.9%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Si-T	mg/L	3.43	3.47	0.2	0.2	1.2%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Hard-T	mg/L	501	512	0.5	0.5	2.2%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	DO-F	mg/L	4.16	4.16			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cond-F	uS/cm	2565.4	2565.4			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	pH-F	pH Units	6.75	6.75			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sat-F	%	36.4	36.4			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Flow	m3/s	0.032176	0.032176			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Al-T	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	S-D	mg/L	307	308	3	3	0.3%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	S-T	mg/L	285	287	6	6	0.7%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ca-T	mg/L	166	169	0.1	0.1	1.8%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Hard-D	mg/L	519	492	0.5	0.5	5.3%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Fe-T	mg/L	9.86	9.92	0.02	0.02	0.6%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Tot.		74985017	74985017			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Turb-F	NTU	1.95	1.95			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Temp-F	C	9.043	9.043			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	B-D	mg/L	1.14	1.12	0.05	0.05	1.8%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	ORP-F	mV	155	155			0.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ca-D	mg/L	172	162	0.05	0.05	6.0%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	B-T	mg/L	1.09	1.02	0.1	0.1	6.6%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ba-T	mg/L	0.0173	0.0176	0.002	0.002	1.7%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Ba-D	mg/L	0.0176	0.0179	0.001	0.001	1.7%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	As-T	mg/L	0.00216	0.00235	0.0002	0.0002	8.4%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	As-D	mg/L	0.00249	0.00242	0.0001	0.0001	2.9%	FALSE
RBP1	RBP1-5DEC25-R	2025-12-05	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	TSS	mg/L	6	6.4	1	1	6.5%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	U-T	mg/L	0.0001	0.00011	0.0001	0.0001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Mg-T	mg/L	16.1	16.6	0.05	0.05	3.1%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBPO	RBPO-3JAN26-R	2026-01-03	Mg-D	mg/L	17	16.6	0.1	0.1	2.4%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Li-D	mg/L	0.013	0.0131	0.004	0.004		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	K-T	mg/L	5.88	6.08	0.05	0.05	3.3%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Fe-T	mg/L	2.78	2.79	0.01	0.01	0.4%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Fe-D	mg/L	0.171	0.139	0.01	0.01	20.6%	TRUE
RBPO	RBPO-3JAN26-R	2026-01-03	Li-T	mg/L	0.0102	0.0111	0.002	0.002	8.5%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Si-D	mg/L	3.04	3.02	0.2	0.2	0.7%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Mn-T	mg/L	0.66	0.679	0.001	0.001	2.8%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Hard-T	mg/L	439	450	0.5	0.5	2.5%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ni-T	mg/L	0.0016	0.0017	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	pH-L	pH Units	8.1	8.12			0.2%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Si-T	mg/L	3.21	3.32	0.1	0.1	3.4%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Na-D	mg/L	340	338	0.1	0.1	0.6%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Na-T	mg/L	332	346	0.05	0.05	4.1%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sr-D	mg/L	1.52	1.52	0.002	0.002	0.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sr-T	mg/L	1.74	1.83	0.001	0.001	5.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	SO4-D	mg/L	660	660	10	10	0.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	K-D	mg/L	5.66	5.67	0.1	0.1	0.2%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	As-T	mg/L	0.00172	0.00179	0.0001	0.0001	4.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ba-D	mg/L	0.0201	0.019	0.002	0.002	5.6%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Mn-D	mg/L	0.645	0.637	0.002	0.002	1.2%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	As-D	mg/L	0.00083	0.0008	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Al-T	mg/L	0.0075	0.0071	0.003	0.003		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	S-T	mg/L	250	259	3	3	3.5%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	S-D	mg/L	246	262	6	6	6.3%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Carb	mg/L	<1.0	<1.0	1	1		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Hard-D	mg/L	438	429	0.5	0.5	2.1%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Alk-T	mg/L	470	470	1	1	0.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ca-D	mg/L	147	144	0.1	0.1	2.1%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cu-T	mg/L	0.00121	0.00126	0.0005	0.0005		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Co-T	mg/L	0.00117	0.00118	0.0002	0.0002	0.9%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Co-D	mg/L	0.00121	0.00121	0.0004	0.0004		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ba-T	mg/L	0.0229	0.0235	0.001	0.001	2.6%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Ca-T	mg/L	149	153	0.05	0.05	2.6%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	F-D	mg/L	0.062	0.067	0.05	0.05		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Br-D	mg/L	<0.010	0.013	0.01	0.01		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	B-D	mg/L	0.99	1	0.1	0.1	1.0%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	B-T	mg/L	0.781	0.833	0.05	0.05	6.4%	FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
RBPO	RBPO-3JAN26-R	2026-01-03	Bicarb	mg/L	570	580	1	1	1.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
RBPO	RBPO-3JAN26-R	2026-01-03	Cl-D	mg/L	6.2	6	1	1	3.3%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sr-T	mg/L	1.59	1.55	0.0010	0.0010	2.5%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sr-D	mg/L	1.50	1.54	0.0010	0.0010	2.6%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Na-T	mg/L	280	264	0.050	0.050	5.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Na-D	mg/L	262	259	0.050	0.050	1.2%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Si-D	mg/L	4.24	4.16	0.10	0.10	1.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	SO4-D	mg/L	450	420	5.0	5.0	6.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Si-T	mg/L	4.31	4.26	0.10	0.10	1.2%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	TSS	mg/L	3.2	5.2	1.0	1.0	47.6%	TRUE
S2A	S2A-7AUG25-R	2025-08-07	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	K-T	mg/L	5.71	5.56	0.050	0.050	2.7%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Al-T	mg/L	0.0047	0.0045	0.0030	0.0030		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Turb	NTU	9.2	9.6	0.10	0.10	4.3%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Fe-T	mg/L	1.72	1.71	0.010	0.010	0.6%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	pH-L	pH Units	8.08	8.09			0.1%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ca-D	mg/L	108	105	0.050	0.050	2.8%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ca-T	mg/L	112	111	0.050	0.050	0.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cl-D	mg/L	12	12	1.0	1.0	0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Co-D	mg/L	0.00058	0.00057	0.00020	0.00020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Co-T	mg/L	0.00066	0.00062	0.00020	0.00020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cu-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	F-D	mg/L	0.24	0.24	0.050	0.050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Br-D	mg/L	0.031	0.031	0.010	0.010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Fe-D	mg/L	1.51	1.52	0.0050	0.0050	0.7%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	B-D	mg/L	1.24	1.12	0.050	0.050	10.2%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Li-D	mg/L	0.0405	0.0418	0.0020	0.0020	3.2%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Li-T	mg/L	0.0463	0.0448	0.0020	0.0020	3.3%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mg-D	mg/L	15.1	15.7	0.050	0.050	3.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mg-T	mg/L	18.0	17.3	0.050	0.050	4.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mn-D	mg/L	0.563	0.573	0.0010	0.0010	1.8%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mn-T	mg/L	0.577	0.560	0.0010	0.0010	3.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Hard-T	mg/L	355	348	0.50	0.50	2.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Al-D	mg/L	0.0031	0.0035	0.0030	0.0030		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Alk-T	mg/L	400	400	1.0	1.0	0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cond-F	uS/cm	1627	1627			0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	pH-F	pH Units	7.24	7.24			0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Flow	m3/s	0.001970721	0.001970721			0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Temp-F	C	10.3	10.3			0.0%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	S-T	mg/L	177	173	3.0	3.0	2.3%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	S-D	mg/L	175	170	3.0	3.0	2.9%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
S2A	S2A-7AUG25-R	2025-08-07	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Acidity83	mg/L	2.3	<1.0	1.0	1.0		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ba-D	mg/L	0.0940	0.0945	0.0010	0.0010	0.5%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Hard-D	mg/L	331	328	0.50	0.50	0.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	DOC	mg/L	1.4	1.4	0.50	0.50		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
S2A	S2A-7AUG25-R	2025-08-07	As-T	mg/L	0.0516	0.0503	0.00010	0.00010	2.6%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Ba-T	mg/L	0.0982	0.0969	0.0010	0.0010	1.3%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Bicarb	mg/L	480	490	1.0	1.0	2.1%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
S2A	S2A-7AUG25-R	2025-08-07	B-T	mg/L	1.25	1.19	0.050	0.050	4.9%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
S2A	S2A-7AUG25-R	2025-08-07	As-D	mg/L	0.0462	0.0473	0.00010	0.00010	2.4%	FALSE
S2A	S2A-7AUG25-R	2025-08-07	K-D	mg/L	5.56	5.58	0.050	0.050	0.4%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sr-D	mg/L	1.51	1.51	0.001	0.001	0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Turb	NTU	12	11	0.1	0.1	8.7%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	TSS	mg/L	3.2	2.8	1	1		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	K-D	mg/L	5.48	5.43	0.05	0.05	0.9%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sr-T	mg/L	1.62	1.55	0.001	0.001	4.4%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Na-T	mg/L	252	246	0.05	0.05	2.4%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Na-D	mg/L	273	266	0.05	0.05	2.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Si-T	mg/L	3.75	3.62	0.1	0.1	3.5%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Si-D	mg/L	3.99	4.06	0.1	0.1	1.7%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	K-T	mg/L	5.46	5.06	0.05	0.05	7.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	SO4-D	mg/L	440	450	5	5	2.2%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	F-D	mg/L	0.25	0.24	0.05	0.05		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Co-T	mg/L	0.00046	0.00045	0.0002	0.0002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Co-D	mg/L	0.0005	0.00048	0.0002	0.0002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cl-D	mg/L	14	14	1	1	0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ca-D	mg/L	116	114	0.05	0.05	1.7%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Br-D	mg/L	0.016	0.035	0.01	0.01		FALSE
S2B	S2B-11AUG25-R	2025-08-11	B-D	mg/L	1.21	1.18	0.05	0.05	2.5%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	B-T	mg/L	1.09	1.02	0.05	0.05	6.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ca-T	mg/L	112	107	0.05	0.05	4.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Li-T	mg/L	0.0455	0.0432	0.002	0.002	5.2%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Acidity83	mg/L	1.9	<1.0	1	1		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Carb	mg/L	<1.0	<1.0	1	1		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
S2B	S2B-11AUG25-R	2025-08-11	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Hard-D	mg/L	372	369	0.5	0.5	0.8%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Fe-D	mg/L	1.11	1.12	0.005	0.005	0.9%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Fe-T	mg/L	1.37	1.28	0.01	0.01	6.8%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	S-D	mg/L	180	178	3	3	1.1%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Li-D	mg/L	0.0432	0.0421	0.002	0.002	2.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mg-D	mg/L	20.3	20.2	0.05	0.05	0.5%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mg-T	mg/L	19.2	18.4	0.05	0.05	4.3%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mn-D	mg/L	0.387	0.379	0.001	0.001	2.1%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mn-T	mg/L	0.396	0.367	0.001	0.001	7.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	pH-L	pH Units	7.95	7.93			0.3%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
S2B	S2B-11AUG25-R	2025-08-11	As-D	mg/L	0.0263	0.0262	0.0001	0.0001	0.4%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Bicarb	mg/L	490	500	1	1	2.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	S-T	mg/L	171	164	3	3	4.2%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	DOC	mg/L	1.5	1.7	0.5	0.5		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Hard-T	mg/L	358	344	0.5	0.5	4.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ba-T	mg/L	0.0859	0.0804	0.001	0.001	6.6%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	As-T	mg/L	0.0307	0.0286	0.0001	0.0001	7.1%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Flow	m3/s	0.00114	0.00114			0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Ba-D	mg/L	0.0832	0.0825	0.001	0.001	0.8%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Temp-F	C	12.3	12.3			0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	pH-F	pH Units	7.43	7.43			0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Cond-F	uS/cm	1603	1603			0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Alk-T	mg/L	410	410	1	1	0.0%	FALSE
S2B	S2B-11AUG25-R	2025-08-11	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
S2B	S2B-11AUG25-R	2025-08-11	Al-T	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Al-T	mg/L	0.0075	0.0109	0.003	0.003		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Turb-F	NTU	16.37	16.37			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	SG	m	1.19	1.19			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Li-D	mg/L	0.0131	0.013	0.002	0.002	0.8%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	DO-F	mg/L	8.65	8.65			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Co-D	mg/L	0.00175	0.00178	0.0002	0.0002	1.7%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Co-T	mg/L	0.00166	0.00171	0.0002	0.0002	3.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cu-D	mg/L	0.00085	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cu-T	mg/L	0.00133	0.00158	0.0005	0.0005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Hard-T	mg/L	400	399	0.5	0.5	0.3%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Fe-D	mg/L	1.99	2.07	0.005	0.005	3.9%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Fe-T	mg/L	2.84	2.93	0.01	0.01	3.1%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ca-D	mg/L	134	138	0.05	0.05	2.9%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Li-T	mg/L	0.0134	0.0129	0.002	0.002	3.8%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mg-D	mg/L	15	15.5	0.05	0.05	3.3%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mg-T	mg/L	14.8	15.2	0.05	0.05	2.7%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mn-D	mg/L	0.668	0.689	0.001	0.001	3.1%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mn-T	mg/L	0.654	0.658	0.001	0.001	0.6%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ni-D	mg/L	0.0028	0.0023	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ni-T	mg/L	0.0023	0.0024	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-11MAR26-R	2026-03-11	As-D	mg/L	0.0017	0.00177	0.0001	0.0001	4.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-11MAR26-R	2026-03-11	Hard-D	mg/L	396	408	0.5	0.5	3.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	S-D	mg/L	224	221	3	3	1.3%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	S-T	mg/L	213	217	3	3	1.9%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Temp-F	C	8.646	8.646			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sat-F	%	73.9	73.9			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	pH-F	pH Units	6.92	6.92			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cond-F	uS/cm	1884.9	1884.9			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ca-T	mg/L	136	135	0.05	0.05	0.7%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	ORP-F	mV	24.6	24.6			0.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	As-T	mg/L	0.00194	0.00208	0.0001	0.0001	7.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ba-D	mg/L	0.0195	0.0205	0.001	0.001	5.0%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ba-T	mg/L	0.0199	0.0202	0.001	0.001	1.5%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	B-T	mg/L	0.907	0.858	0.05	0.05	5.6%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	B-D	mg/L	0.908	0.916	0.05	0.05	0.9%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Na-T	mg/L	287	295	0.05	0.05	2.7%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Si-D	mg/L	3.07	3.14	0.1	0.1	2.3%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	SO4-D	mg/L	570	590	5	5	3.4%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sr-D	mg/L	1.5	1.51	0.001	0.001	0.7%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Na-D	mg/L	309	315	0.05	0.05	1.9%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	K-D	mg/L	4.86	5.1	0.05	0.05	4.8%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	K-T	mg/L	4.92	5.18	0.05	0.05	5.1%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sr-T	mg/L	1.4	1.43	0.001	0.001	2.1%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	Si-T	mg/L	3.26	3.18	0.1	0.1	2.5%	FALSE
SP1	SP1-11MAR26-R	2026-03-11	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-11MAR26-R	2026-03-11	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Co-D	mg/L	0.00261	0.00269	0.0002	0.0002	3.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	B-T	mg/L	0.916	0.897	0.05	0.05	2.1%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	B-D	mg/L	1.06	1	0.05	0.05	5.8%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cd-T	mg/L	0.000012	0.000011	0.00001	0.00001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ca-D	mg/L	148	143	0.05	0.05	3.4%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ca-T	mg/L	146	146	0.05	0.05	0.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	S-T	mg/L	244	243	3	3	0.4%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ba-T	mg/L	0.0216	0.0203	0.001	0.001	6.2%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ba-D	mg/L	0.0201	0.0199	0.001	0.001	1.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	As-T	mg/L	0.00229	0.00221	0.0001	0.0001	3.6%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	As-D	mg/L	0.00198	0.00194	0.0001	0.0001	2.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-23MAR26-R	2026-03-23	Al-T	mg/L	0.0077	0.01	0.003	0.003		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Co-T	mg/L	0.00289	0.00282	0.0002	0.0002	2.5%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-23MAR26-R	2026-03-23	S-D	mg/L	231	226	3	3	2.2%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Hard-D	mg/L	438	425	0.5	0.5	3.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Fe-T	mg/L	2.5	2.43	0.01	0.01	2.8%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Na-D	mg/L	303	305	0.05	0.05	0.7%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Na-T	mg/L	313	306	0.05	0.05	2.3%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sr-D	mg/L	1.48	1.45	0.001	0.001	2.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sr-T	mg/L	1.6	1.52	0.001	0.001	5.1%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	SO4-D	mg/L	610	580	5	5	5.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Si-T	mg/L	3.49	3.3	0.1	0.1	5.6%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cu-T	mg/L	0.00193	0.00191	0.0005	0.0005		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Hard-T	mg/L	437	432	0.5	0.5	1.2%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Fe-D	mg/L	2.15	2.13	0.005	0.005	0.9%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mg-D	mg/L	16.5	16.5	0.05	0.05	0.0%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Li-D	mg/L	0.0117	0.0122	0.002	0.002	4.2%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Li-T	mg/L	0.0128	0.0125	0.002	0.002	2.4%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mn-T	mg/L	0.771	0.735	0.001	0.001	4.8%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Cu-D	mg/L	0.00025	0.00025	0.0002	0.0002		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ni-D	mg/L	0.0036	0.0037	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Ni-T	mg/L	0.0038	0.0038	0.001	0.001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	K-D	mg/L	5.17	5.04	0.05	0.05	2.5%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	K-T	mg/L	5.48	5.22	0.05	0.05	4.9%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-23MAR26-R	2026-03-23	Si-D	mg/L	3.41	3.28	0.1	0.1	3.9%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mg-T	mg/L	17.2	16.7	0.05	0.05	2.9%	FALSE
SP1	SP1-23MAR26-R	2026-03-23	Mn-D	mg/L	0.707	0.719	0.001	0.001	1.7%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ca-T	mg/L	167	172	0.1	0.1	2.9%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ca-D	mg/L	188	183	0.1	0.1	2.7%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Co-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Co-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cu-T	mg/L	0.0016	0.0017	0.001	0.001		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Hard-T	mg/L	508	520	0.5	0.5	2.3%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Fe-T	mg/L	13.5	13.7	0.02	0.02	1.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Li-D	mg/L	0.0255	0.0242	0.004	0.004	5.2%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Li-T	mg/L	0.0179	0.0184	0.004	0.004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mg-D	mg/L	21.2	21.6	0.1	0.1	1.9%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mg-T	mg/L	22.2	21.8	0.1	0.1	1.8%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mn-D	mg/L	0.978	0.968	0.002	0.002	1.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mn-T	mg/L	0.873	0.9	0.002	0.002	3.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-26NOV25-R	2025-11-26	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Hard-D	mg/L	556	547	0.5	0.5	1.6%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	K-D	mg/L	6.27	6.24	0.1	0.1	0.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	K-T	mg/L	5.89	5.81	0.1	0.1	1.4%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	SG	m	1.02	1.02			0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	S-D	mg/L	313	319	6	6	1.9%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Temp-F	C	9.017	9.017			0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	pH-F	pH Units	7.16	7.16			0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cond-F	uS/cm	2390.5	2390.5			0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP1	SP1-26NOV25-R	2025-11-26	S-T	mg/L	279	284	6	6	1.8%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	As-D	mg/L	0.00204	0.00206	0.0002	0.0002	1.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	As-T	mg/L	0.00286	0.00291	0.0002	0.0002	1.7%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ba-D	mg/L	0.0157	0.0162	0.002	0.002	3.1%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ba-T	mg/L	0.0184	0.0185	0.002	0.002	0.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	B-T	mg/L	1.04	1.04	0.1	0.1	0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	B-D	mg/L	1.25	1.21	0.1	0.1	3.3%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Al-T	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP1	SP1-26NOV25-R	2025-11-26	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	TSS	mg/L	32	30	1	1	6.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Fe-D	mg/L	9.02	8.56	0.01	0.01	5.2%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Si-T	mg/L	3.72	3.82	0.2	0.2	2.7%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Tl-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Si-D	mg/L	3.85	3.65	0.2	0.2	5.3%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP1	SP1-26NOV25-R	2025-11-26	Na-D	mg/L	382	382	0.1	0.1	0.0%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Na-T	mg/L	388	385	0.1	0.1	0.8%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sr-D	mg/L	1.93	1.92	0.002	0.002	0.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Sr-T	mg/L	1.85	1.86	0.002	0.002	0.5%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	SO4-D	mg/L	790	820	10	10	3.7%	FALSE
SP1	SP1-26NOV25-R	2025-11-26	Tl-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mn-T	mg/L	0.869	0.893	0.001	0.001	2.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mg-T	mg/L	18.6	19.4	0.05	0.05	4.2%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mg-D	mg/L	20.9	19.4	0.1	0.1	7.4%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Li-T	mg/L	0.0157	0.0166	0.002	0.002	5.6%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Li-D	mg/L	0.018	0.0162	0.004	0.004		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mn-D	mg/L	0.953	0.886	0.002	0.002	7.3%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Fe-T	mg/L	7.63	7.91	0.01	0.01	3.6%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Fe-D	mg/L	4.86	4.22	0.01	0.01	14.1%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Hard-T	mg/L	471	490	0.5	0.5	4.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cu-T	mg/L	0.00162	0.00166	0.0005	0.0005		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-7DEC25-R	2025-12-07	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Co-D	mg/L	0.00075	0.0007	0.0004	0.0004		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sr-T	mg/L	1.69	1.76	0.001	0.001	4.1%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Co-T	mg/L	0.00074	0.0008	0.0002	0.0002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP1	SP1-7DEC25-R	2025-12-07	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7DEC25-R	2025-12-07	SO4-D	mg/L	740	730	10	10	1.4%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sr-D	mg/L	1.9	1.7	0.002	0.002	11.1%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ca-T	mg/L	158	164	0.05	0.05	3.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Na-T	mg/L	336	352	0.05	0.05	4.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Si-T	mg/L	3.47	3.55	0.1	0.1	2.3%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	K-T	mg/L	5.68	5.89	0.05	0.05	3.6%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	K-D	mg/L	6.21	5.73	0.1	0.1	8.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	pH-L	pH Units	8.15	8.08			0.9%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Na-D	mg/L	372	345	0.1	0.1	7.5%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Al-T	mg/L	0.0291	0.0291	0.003	0.003	0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	ORP-F	mV	160.3	160.3			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Temp-F	C	8.62	8.62			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sat-F	%	68.6	68.6			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	pH-F	pH Units	7.02	7.02			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cond-F	uS/cm	2501	2501			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	DO-F	mg/L	7.91	7.91			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	S-T	mg/L	262	278	3	3	5.9%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP1	SP1-7DEC25-R	2025-12-07	S-D	mg/L	286	266	6	6	7.2%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-7DEC25-R	2025-12-07	As-D	mg/L	0.00133	0.0012	0.0002	0.0002	10.3%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	As-T	mg/L	0.00208	0.00218	0.0001	0.0001	4.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ba-D	mg/L	0.0181	0.0163	0.002	0.002	10.5%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ba-T	mg/L	0.0179	0.0182	0.001	0.001	1.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Alk-T	mg/L	490	490	1	1	0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	SG	m	1	1			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	B-D	mg/L	1.15	1.05	0.1	0.1	9.1%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	B-T	mg/L	0.932	0.972	0.05	0.05	4.2%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Bicarb	mg/L	590	600	1	1	1.7%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Turb-F	NTU	49.08	49.08			0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ca-D	mg/L	164	150	0.1	0.1	8.9%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Hard-D	mg/L	496	455	0.5	0.5	8.6%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Si-D	mg/L	3.45	3.18	0.2	0.2	8.1%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Acidity83	mg/L	4.5	4.8	1	1		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Tl-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-7DEC25-R	2025-12-07	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-7DEC25-R	2025-12-07	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7DEC25-R	2025-12-07	TSS	mg/L	20	20	1	1	0.0%	FALSE
SP1	SP1-7DEC25-R	2025-12-07	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Si-T	mg/L	2.94	2.92	0.1	0.1	0.7%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ni-T	mg/L	0.0016	0.0016	0.001	0.001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	pH-L	pH Units	7.94	7.9			0.5%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	K-D	mg/L	5.79	5.7	0.1	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	K-T	mg/L	5.37	5.26	0.05	0.05	2.1%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Se-D	mg/L	<0.00020	<0.0020	0.0002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Si-D	mg/L	3.28	3.25	0.2	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mg-D	mg/L	18.2	17.8	0.1	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ag-D	mg/L	<0.000040	<0.0020	0.00004	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Na-D	mg/L	374	369	0.1	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Na-T	mg/L	343	333	0.05	0.05	3.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sr-D	mg/L	1.46	1.45	0.002	0.002	0.7%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sr-T	mg/L	1.43	1.38	0.001	0.001	3.6%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	SO4-D	mg/L	660	650	10	10	1.5%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ti-D	mg/L	<0.000020	<0.0020	0.00002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cu-D	mg/L	<0.00040	<0.0020	0.0004	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Turb-F	NTU	22.12	22.12			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	B-D	mg/L	1.33	1.25	0.1	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cd-D	mg/L	<0.000020	<0.0020	0.00002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ca-D	mg/L	150	152	0.1	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ca-T	mg/L	137	134	0.05	0.05	2.2%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mn-T	mg/L	0.646	0.633	0.001	0.001	2.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Co-T	mg/L	0.00118	0.00114	0.0002	0.0002	3.4%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mn-D	mg/L	0.664	0.655	0.002	0.002	1.4%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cu-T	mg/L	0.00163	0.00155	0.0005	0.0005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Hard-T	mg/L	410	400	0.5	0.5	2.5%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Fe-D	mg/L	2.71	2.68	0.01	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Fe-T	mg/L	4.08	3.98	0.01	0.01	2.5%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Pb-D	mg/L	<0.00040	<0.0020	0.0004	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Li-D	mg/L	0.0133	0.0131	0.004	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Mg-T	mg/L	16.2	15.9	0.05	0.05	1.9%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Co-D	mg/L	0.00122	<0.0020	0.0004	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	S-D	mg/L	258	252	6	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Al-T	mg/L	0.0151	0.0059	0.003	0.003	87.6%	TRUE
SP1	SP1-7JAN26-R	2026-01-07	Al-D	mg/L	<0.0060	<0.0020	0.006	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Alk-T	mg/L	480	480	1	1	0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	DO-F	mg/L	8.07	8.07			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Cond-F	uS/cm	2383	2383			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	pH-F	pH Units	7.01	7.01			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sat-F	%	59.6	59.6			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	ORP-F	mV	215.6	215.6			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sb-D	mg/L	<0.0010	<0.0020	0.001	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	S-T	mg/L	243	236	3	3	2.9%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Temp-F	C	8.543	8.543			0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Acidity83	mg/L	7.9	8.3	1	1	4.9%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Hard-D	mg/L	449	452	0.5	0.5	0.7%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	B-T	mg/L	1.17	1.12	0.05	0.05	4.4%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Li-T	mg/L	0.0126	0.0126	0.002	0.002	0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	SG	m	1.04	1.04			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-7JAN26-R	2026-01-07	Zr-D	mg/L	<0.00020	<0.0020	0.0002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sn-D	mg/L	<0.010	<0.0020	0.01	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	TSS	mg/L	9.6	10	1	1	4.1%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	U-D	mg/L	<0.00020	<0.0020	0.0002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	V-D	mg/L	<0.010	<0.0020	0.01	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ti-D	mg/L	<0.010	<0.0020	0.01	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Zn-D	mg/L	<0.010	<0.0020	0.01	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-7JAN26-R	2026-01-07	As-T	mg/L	0.00191	0.00181	0.0001	0.0001	5.4%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Bicarb	mg/L	590	590	1	1	0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Be-D	mg/L	<0.00020	<0.0020	0.0002	0.002		FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ba-T	mg/L	0.0167	0.0161	0.001	0.001	3.7%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	Ba-D	mg/L	0.0161	0.0161	0.002	0.002	0.0%	FALSE
SP1	SP1-7JAN26-R	2026-01-07	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-7JAN26-R	2026-01-07	As-D	mg/L	0.0015	<0.0020	0.0002	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ca-D	mg/L	138	138	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	B-D	mg/L	0.99	0.99	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Turb-F	NTU	0.7	0.7			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	SG	m	1.24	1.24			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hard-D	mg/L	409	409	0.5	0.5	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ca-T	mg/L	128	128	0.05	0.05	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ca-D	mg/L	138	132	0.1	0.05		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ca-T	mg/L	128	136	0.05	0.05	6.1%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cr-D	mg/L	<0.0020	<0.0010	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Co-D	mg/L	0.00244	0.00231	0.0004	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cu-D	mg/L	<0.00040	<0.00020	0.0004	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	S-D	mg/L	211	211	6	6	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cu-T	mg/L	0.00153	0.00155	0.0005	0.0005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hard-T	mg/L	380	402	0.5	0.5	5.6%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Co-T	mg/L	0.00215	0.00221	0.0002	0.0002	2.8%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Fe-D	mg/L	2.17	2.04	0.01	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ba-T	mg/L	0.0198	0.0198	0.001	0.001	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ba-D	mg/L	0.0191	0.0191	0.002	0.002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	As-T	mg/L	0.00192	0.00192	0.0001	0.0001	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bicarb	mg/L	570	570	1	1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	S-T	mg/L	203	203	3	3	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Al-T	mg/L	0.0045	0.0045	0.003	0.003		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Alk-T	mg/L	470	470	1	1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	DO-F	mg/L	8.51	8.51			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cond-F	uS/cm	1769.7	1769.7			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	pH-F	pH Units	7.02	7.02			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sat-F	%	74.5	74.5			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Temp-F	C	9.234	9.234			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-9FEB26-R	2026-02-09	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	As-D	mg/L	0.0019	0.0019	0.0002	0.0002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sr-T	mg/L	1.32	1.36	0.001	0.001	3.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	SO4-D	mg/L	570	560	5	5	1.8%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-D	mg/L	<0.000020	<0.000010	0.00002	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sn-D	mg/L	<0.010	<0.0050	0.01	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-D	mg/L	<0.010	<0.0050	0.01	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	U-D	mg/L	<0.00020	<0.00010	0.0002	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	B-D	mg/L	0.99	0.91	0.1	0.05		FALSE
SP1	SP1-9FEB26-R	2026-02-09	V-D	mg/L	<0.010	<0.0050	0.01	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Na-D	mg/L	309	305	0.1	0.05		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zn-D	mg/L	<0.010	<0.0050	0.01	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Turb-F	NTU	0.7	0.7			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cd-D	mg/L	<0.000020	<0.000010	0.00002	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	B-T	mg/L	0.868	0.895	0.05	0.05	3.1%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bi-D	mg/L	<0.0020	<0.0010	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Bicarb	mg/L	570	570	1	1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ni-T	mg/L	0.003	0.0031	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Pb-D	mg/L	<0.00040	<0.00020	0.0004	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Li-D	mg/L	0.015	0.0138	0.004	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Li-T	mg/L	0.0124	0.0129	0.002	0.002	4.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mg-D	mg/L	15.4	15.2	0.1	0.05		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mg-T	mg/L	14.8	15.3	0.05	0.05	3.3%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mn-D	mg/L	0.677	0.66	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mn-T	mg/L	0.626	0.651	0.001	0.001	3.9%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mo-D	mg/L	<0.0020	<0.0010	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sr-D	mg/L	1.33	1.36	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ni-D	mg/L	0.0034	0.0031	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Na-T	mg/L	288	298	0.05	0.05	3.4%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	pH-L	pH Units	8	7.99	0	0	0.1%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	K-D	mg/L	5.3	5.31	0.1	0.05		FALSE
SP1	SP1-9FEB26-R	2026-02-09	K-T	mg/L	5.06	5.21	0.05	0.05	2.9%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Se-D	mg/L	<0.00020	<0.00010	0.0002	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Si-D	mg/L	3.11	3.1	0.2	0.1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Si-T	mg/L	2.94	3.17	0.1	0.1	7.5%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ag-D	mg/L	<0.000040	<0.000020	0.00004	0.00002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Fe-T	mg/L	2.34	2.4	0.01	0.01	2.5%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hard-D	mg/L	409	392	0.5	0.5	4.2%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	SG	m	1.24	1.24			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	B-T	mg/L	0.868	0.868	0.05	0.05	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Alk-T	mg/L	470	470	1	1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ba-T	mg/L	0.0198	0.0199	0.001	0.001	0.5%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP1	SP1-9FEB26-R	2026-02-09	Ba-D	mg/L	0.0191	0.0194	0.002	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	As-T	mg/L	0.00192	0.00198	0.0001	0.0001	3.1%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	As-D	mg/L	0.0019	0.00188	0.0002	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sb-D	mg/L	<0.0010	<0.00050	0.001	0.0005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	S-D	mg/L	211	219	6	3		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Al-D	mg/L	<0.0060	<0.0030	0.006	0.003		FALSE
SP1	SP1-9FEB26-R	2026-02-09	S-T	mg/L	203	222	3	3	8.9%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	DO-F	mg/L	8.51	8.51			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cond-F	uS/cm	1769.7	1769.7			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	pH-F	pH Units	7.02	7.02			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sat-F	%	74.5	74.5			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Temp-F	C	9.234	9.234			0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zr-D	mg/L	<0.00020	<0.00010	0.0002	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Al-T	mg/L	0.0045	<0.0030	0.003	0.003		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Li-D	mg/L	0.015	0.015	0.004	0.004		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-9FEB26-R	2026-02-09	SO4-D	mg/L	570	570	5	5	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Hard-T	mg/L	380	380	0.5	0.5	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Fe-T	mg/L	2.34	2.34	0.01	0.01	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Be-D	mg/L	<0.00020	<0.00010	0.0002	0.0001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Co-T	mg/L	0.00215	0.00215	0.0002	0.0002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Cu-T	mg/L	0.00153	0.00153	0.0005	0.0005		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Li-T	mg/L	0.0124	0.0124	0.002	0.002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mg-D	mg/L	15.4	15.4	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mg-T	mg/L	14.8	14.8	0.05	0.05	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mn-D	mg/L	0.677	0.677	0.002	0.002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mn-T	mg/L	0.626	0.626	0.001	0.001	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sr-T	mg/L	1.32	1.32	0.001	0.001	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Sr-D	mg/L	1.33	1.33	0.002	0.002	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Fe-D	mg/L	2.17	2.17	0.01	0.01	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Na-D	mg/L	309	309	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Co-D	mg/L	0.00244	0.00244	0.0004	0.0004	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Si-T	mg/L	2.94	2.94	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ni-T	mg/L	0.003	0.003	0.001	0.001		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Na-T	mg/L	288	288	0.05	0.05	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Ni-D	mg/L	0.0034	0.0034	0.002	0.002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Si-D	mg/L	3.11	3.11	0.2	0.2	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	pH-L	pH Units	8	8	0	0	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	K-D	mg/L	5.3	5.3	0.1	0.1	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	K-T	mg/L	5.06	5.06	0.05	0.05	0.0%	FALSE
SP1	SP1-9FEB26-R	2026-02-09	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP1	SP1-9FEB26-R	2026-02-09	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-10DEC25-R	2025-12-10	S-D	mg/L	300	276	6	6	8.3%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	SG	m	1.5	1.5			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	ORP-F	mV	107.6	107.6			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Hard-D	mg/L	545	514	0.5	0.5	5.9%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Turb-F	NTU	62	62			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Acidity83	mg/L	<1.0	1.2	1	1		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	K-T	mg/L	6.01	5.91	0.1	0.1	1.7%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	K-D	mg/L	6.15	5.89	0.1	0.1	4.3%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	pH-L	pH Units	8.24	8.22			0.2%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Si-T	mg/L	3.68	3.61	0.2	0.2	1.9%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-10DEC25-R	2025-12-10	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Mn-T	mg/L	0.894	0.872	0.002	0.002	2.5%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Mn-D	mg/L	0.899	0.852	0.002	0.002	5.4%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Mg-T	mg/L	20.2	19.8	0.1	0.1	2.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Mg-D	mg/L	20.5	19.9	0.1	0.1	3.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Li-T	mg/L	0.017	0.0175	0.004	0.004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Li-D	mg/L	0.0178	0.0169	0.004	0.004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ti-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	TSS	mg/L	16	16	1	1	0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Si-D	mg/L	3.57	3.49	0.2	0.2	2.3%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Fe-D	mg/L	3.21	2.75	0.01	0.01	15.4%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	SO4-D	mg/L	790	750	10	10	5.2%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sr-T	mg/L	1.94	1.95	0.002	0.002	0.5%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sr-D	mg/L	1.98	1.89	0.002	0.002	4.7%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Na-T	mg/L	366	360	0.1	0.1	1.7%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Na-D	mg/L	376	360	0.1	0.1	4.3%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cond-F	uS/cm	2189	2189			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ba-D	mg/L	0.0201	0.021	0.002	0.002	4.4%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	As-T	mg/L	0.00207	0.00208	0.0002	0.0002	0.5%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	As-D	mg/L	0.00126	0.00107	0.0002	0.0002	16.3%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Al-T	mg/L	0.028	0.0213	0.006	0.006		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	DO-F	mg/L	7.45	7.45			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	pH-F	pH Units	6.99	6.99			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Sat-F	%	64.7	64.7			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Temp-F	C	8.823	8.823			0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	S-T	mg/L	288	304	6	6	5.4%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Alk-T	mg/L	480	480	1	1	0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ca-D	mg/L	185	173	0.1	0.1	6.7%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Hard-T	mg/L	528	525	0.5	0.5	0.6%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cu-T	mg/L	0.0018	0.0018	0.001	0.001		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Co-T	mg/L	0.00085	0.00083	0.0004	0.0004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Co-D	mg/L	0.00085	0.00076	0.0004	0.0004		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ba-T	mg/L	0.0226	0.0219	0.002	0.002	3.1%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Ca-T	mg/L	178	178	0.1	0.1	0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	B-D	mg/L	1.09	1.03	0.1	0.1	5.7%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	B-T	mg/L	1.07	1.1	0.1	0.1	2.8%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-10DEC25-R	2025-12-10	Bicarb	mg/L	590	590	1	1	0.0%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Fe-T	mg/L	7.12	7.04	0.02	0.02	1.1%	FALSE
SP2	SP2-10DEC25-R	2025-12-10	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-10DEC25-R	2025-12-10	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ba-D	mg/L	0.0201	0.0201	0.001	0.001	0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	TI-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	TI-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	SO4-D	mg/L	600	600	10	10	0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sr-T	mg/L	1.51	1.5	0.001	0.001	0.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sr-D	mg/L	1.53	1.54	0.001	0.001	0.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	ORP-F	mV	22.3	22.3			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cond-F	uS/cm	1721.5	1721.5			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	pH-F	pH Units	7.03	7.03			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sat-F	%	81.7	81.7			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Temp-F	C	9.157	9.157			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	S-T	mg/L	240	236	3	3	1.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Hard-D	mg/L	409	423	0.5	0.5	3.4%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ba-T	mg/L	0.021	0.0208	0.001	0.001	1.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	SG	m	1.72	1.72			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Turb-F	NTU	9.1	9.1			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Al-T	mg/L	0.0047	0.0035	0.003	0.003		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	As-T	mg/L	0.00206	0.00198	0.0001	0.0001	4.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	As-D	mg/L	0.00169	0.00178	0.0001	0.0001	5.2%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	S-D	mg/L	212	210	3	3	0.9%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Si-D	mg/L	3.01	3.13	0.1	0.1	3.9%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mn-D	mg/L	0.71	0.711	0.001	0.001	0.1%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mn-T	mg/L	0.738	0.731	0.001	0.001	1.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Na-D	mg/L	290	290	0.05	0.05	0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mg-D	mg/L	15.2	15.3	0.05	0.05	0.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Si-T	mg/L	3.64	3.67	0.1	0.1	0.8%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Mg-T	mg/L	17.1	16.5	0.05	0.05	3.6%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	DO-F	mg/L	9.33	9.33			0.0%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	K-T	mg/L	5.16	5.05	0.05	0.05	2.2%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	K-D	mg/L	4.78	4.66	0.05	0.05	2.5%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ni-T	mg/L	0.0036	0.0036	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ni-D	mg/L	0.0035	0.0034	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	B-T	mg/L	1.07	1.04	0.05	0.05	2.8%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Hard-T	mg/L	433	427	0.5	0.5	1.4%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	B-D	mg/L	0.982	1.01	0.05	0.05	2.8%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cd-D	mg/L	0.000011	0.000029	0.00001	0.00001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cd-T	mg/L	0.000011	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ca-D	mg/L	139	144	0.05	0.05	3.5%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Ca-T	mg/L	145	144	0.05	0.05	0.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Co-D	mg/L	0.00262	0.00257	0.0002	0.0002	1.9%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-25MAR26-R	2026-03-25	Co-T	mg/L	0.00289	0.00277	0.0002	0.0002	4.2%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cu-T	mg/L	0.00201	0.002	0.0005	0.0005		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Na-T	mg/L	306	295	0.05	0.05	3.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Fe-D	mg/L	1.63	1.67	0.005	0.005	2.4%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Fe-T	mg/L	2.6	2.57	0.01	0.01	1.2%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Li-T	mg/L	0.0155	0.015	0.002	0.002	3.3%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-25MAR26-R	2026-03-25	Li-D	mg/L	0.0138	0.0139	0.002	0.002	0.7%	FALSE
SP2	SP2-25MAR26-R	2026-03-25	Cu-D	mg/L	0.00022	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	As-T	mg/L	0.00187	0.00206	0.0002	0.0002	9.7%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ba-T	mg/L	0.0197	0.0204	0.002	0.002	3.5%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ba-D	mg/L	0.019	0.0183	0.002	0.002	3.8%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cu-T	mg/L	0.0037	0.0019	0.001	0.001		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Fe-T	mg/L	3.78	4	0.02	0.02	5.7%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Fe-D	mg/L	1.39	1.42	0.01	0.01	2.1%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Hard-T	mg/L	447	467	0.5	0.5	4.4%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sat-F	%	75.5	75.5			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Co-T	mg/L	0.00146	0.00153	0.0004	0.0004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Co-D	mg/L	0.00148	0.00147	0.0004	0.0004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ca-T	mg/L	149	156	0.1	0.1	4.6%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ca-D	mg/L	146	147	0.1	0.1	0.7%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	B-D	mg/L	1.14	1.18	0.1	0.1	3.4%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	B-T	mg/L	1.17	1.24	0.1	0.1	5.8%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	As-D	mg/L	0.00122	0.00125	0.0002	0.0002	2.4%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	S-D	mg/L	261	257	6	6	1.5%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Turb-F	NTU	25.32	25.32			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	SG	m	1.52	1.52			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	ORP-F	mV	213	213			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Hard-D	mg/L	438	443	0.5	0.5	1.1%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Cond-F	uS/cm	2301.3	2301.3			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-31DEC25-R	2025-12-31	S-T	mg/L	249	263	6	6	5.5%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Zr-D	mg/L	0.00029	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Temp-F	C	8.58	8.58			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	pH-F	pH Units	7.06	7.06			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	DO-F	mg/L	8.75	8.75			0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Alk-T	mg/L	460	470	1	1	2.2%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Al-T	mg/L	<0.0060	0.0066	0.006	0.006		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Si-T	mg/L	3.09	3.22	0.2	0.2	4.1%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ti-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	SO4-D	mg/L	650	650	10	10	0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sr-T	mg/L	1.55	1.62	0.002	0.002	4.4%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sr-D	mg/L	1.49	1.55	0.002	0.002	3.9%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Na-T	mg/L	375	398	0.1	0.1	6.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Na-D	mg/L	365	362	0.1	0.1	0.8%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-31DEC25-R	2025-12-31	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Si-D	mg/L	3.1	3.14	0.2	0.2	1.3%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	K-T	mg/L	5.68	6.05	0.1	0.1	6.3%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	K-D	mg/L	5.84	5.84	0.1	0.1	0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	pH-L	pH Units	8.24	8.07			2.1%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ni-T	mg/L	0.0023	0.0023	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ni-D	mg/L	0.0022	0.0021	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Mn-D	mg/L	0.745	0.728	0.002	0.002	2.3%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Mn-T	mg/L	0.72	0.761	0.002	0.002	5.5%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Mg-D	mg/L	17.9	18.2	0.1	0.1	1.7%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Li-T	mg/L	0.0138	0.0147	0.004	0.004		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Mg-T	mg/L	18.3	18.7	0.1	0.1	2.2%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Bicarb	mg/L	570	570	1	1	0.0%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-31DEC25-R	2025-12-31	TSS	mg/L	8.8	8.4	1	1	4.7%	FALSE
SP2	SP2-31DEC25-R	2025-12-31	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-31DEC25-R	2025-12-31	Li-D	mg/L	0.0136	0.0136	0.004	0.004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cu-T	mg/L	0.0014	0.0013	0.001	0.001		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Hard-T	mg/L	533	504	0.5	0.5	5.6%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Co-D	mg/L	0.00051	0.00055	0.0004	0.0004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Fe-D	mg/L	1.29	1.41	0.01	0.01	8.9%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Co-T	mg/L	0.00063	0.00059	0.0004	0.0004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mg-D	mg/L	21.2	23.4	0.1	0.1	9.9%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Li-D	mg/L	0.0172	0.0184	0.004	0.004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Na-T	mg/L	374	355	0.1	0.1	5.2%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sr-D	mg/L	1.74	1.87	0.002	0.002	7.2%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sr-T	mg/L	1.93	1.81	0.002	0.002	6.4%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	SO4-D	mg/L	720	720	10	10	0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ti-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	TSS	mg/L	17	18	1	1	5.7%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ca-T	mg/L	178	168	0.1	0.1	5.8%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Li-T	mg/L	0.0182	0.0171	0.004	0.004		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mg-T	mg/L	21.4	20.6	0.1	0.1	3.8%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mn-D	mg/L	0.783	0.868	0.002	0.002	10.3%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Na-D	mg/L	364	393	0.1	0.1	7.7%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Fe-T	mg/L	7.71	7.24	0.02	0.02	6.3%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-3DEC25-R	2025-12-03	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	K-D	mg/L	5.8	6.19	0.1	0.1	6.5%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	K-T	mg/L	6.17	5.85	0.1	0.1	5.3%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Si-D	mg/L	3.32	3.54	0.2	0.2	6.4%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Si-T	mg/L	3.4	3.17	0.2	0.2	7.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Mn-T	mg/L	0.976	0.882	0.002	0.002	10.1%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP2	SP2-3DEC25-R	2025-12-03	ORP-F	mV	176	176			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Hard-D	mg/L	486	526	0.5	0.5	7.9%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	S-D	mg/L	270	294	6	6	8.5%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	S-T	mg/L	309	286	6	6	7.7%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Temp-F	C	8.263	8.263			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sat-F	%	79	79			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	pH-F	pH Units	7.14	7.14			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	SG	m	1.47	1.47			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ca-D	mg/L	160	172	0.1	0.1	7.2%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	DO-F	mg/L	9.1	9.1			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	B-D	mg/L	1.14	1.22	0.1	0.1	6.8%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-3DEC25-R	2025-12-03	As-D	mg/L	0.00072	0.00078	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	As-T	mg/L	0.00186	0.0017	0.0002	0.0002	9.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ba-D	mg/L	0.0208	0.0225	0.002	0.002	7.9%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Ba-T	mg/L	0.026	0.0246	0.002	0.002	5.5%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cond-F	uS/cm	2500.4	2500.4			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Turb-F	NTU	73.02	73.02			0.0%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	B-T	mg/L	1.06	1.02	0.1	0.1	3.8%	FALSE
SP2	SP2-3DEC25-R	2025-12-03	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-3DEC25-R	2025-12-03	Al-T	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-9MAR26-R	2026-03-09	B-T	mg/L	0.865	0.84	0.05	0.05	2.9%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	B-D	mg/L	0.999	1.01	0.05	0.05	1.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ca-D	mg/L	127	127	0.05	0.05	0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ca-T	mg/L	130	126	0.05	0.05	3.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Co-T	mg/L	0.00168	0.00164	0.0002	0.0002	2.4%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cu-T	mg/L	0.00122	0.0013	0.0005	0.0005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Hard-T	mg/L	383	372	0.5	0.5	2.9%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Fe-D	mg/L	1.07	1.03	0.005	0.005	3.8%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Fe-T	mg/L	2.48	2.47	0.01	0.01	0.4%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Turb-F	NTU	30.11	30.11			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Li-D	mg/L	0.0134	0.0134	0.002	0.002	0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Li-T	mg/L	0.0123	0.0118	0.002	0.002	4.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mg-D	mg/L	13.6	14.2	0.05	0.05	4.3%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mg-T	mg/L	14.3	13.9	0.05	0.05	2.8%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Co-D	mg/L	0.00186	0.00188	0.0002	0.0002	1.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sat-F	%	73.4	73.4			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ba-D	mg/L	0.0212	0.0209	0.001	0.001	1.4%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	As-T	mg/L	0.00189	0.00181	0.0001	0.0001	4.3%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	As-D	mg/L	0.00135	0.0014	0.0001	0.0001	3.6%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Al-T	mg/L	0.0067	0.0062	0.003	0.003		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP2	SP2-9MAR26-R	2026-03-09	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP2	SP2-9MAR26-R	2026-03-09	DO-F	mg/L	8.29	8.29			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Cond-F	uS/cm	1798.5	1798.5			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mn-D	mg/L	0.677	0.684	0.001	0.001	1.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Temp-F	C	9.643	9.643			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	S-T	mg/L	204	190	3	3	7.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	S-D	mg/L	210	211	3	3	0.5%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Hard-D	mg/L	373	375	0.5	0.5	0.5%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	ORP-F	mV	120.4	120.4			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	SG	m	1.18	1.66			33.8%	TRUE
SP2	SP2-9MAR26-R	2026-03-09	Ba-T	mg/L	0.0216	0.0209	0.001	0.001	3.3%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	pH-F	pH Units	7.04	7.04			0.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Na-D	mg/L	275	284	0.05	0.05	3.2%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Na-T	mg/L	278	273	0.05	0.05	1.8%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sr-D	mg/L	1.45	1.43	0.001	0.001	1.4%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Sr-T	mg/L	1.36	1.32	0.001	0.001	3.0%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	SO4-D	mg/L	540	560	5	5	3.6%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mn-T	mg/L	0.629	0.616	0.001	0.001	2.1%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	K-T	mg/L	4.85	4.65	0.05	0.05	4.2%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ni-D	mg/L	0.0024	0.0026	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ni-T	mg/L	0.0022	0.0022	0.001	0.001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	K-D	mg/L	5.11	5.19	0.05	0.05	1.6%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Si-T	mg/L	3.18	2.98	0.1	0.1	6.5%	FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP2	SP2-9MAR26-R	2026-03-09	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP2	SP2-9MAR26-R	2026-03-09	Si-D	mg/L	2.97	2.93	0.1	0.1	1.4%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Si-T	mg/L	3.27	3.34	0.2	0.2	2.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Si-D	mg/L	3.25	3.17	0.2	0.2	2.5%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	K-T	mg/L	5.63	5.74	0.1	0.1	1.9%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	K-D	mg/L	5.92	5.9	0.1	0.1	0.3%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	pH-L	pH Units	7.9	7.9			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mn-D	mg/L	0.754	0.755	0.002	0.002	0.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mn-T	mg/L	0.745	0.747	0.002	0.002	0.3%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mg-T	mg/L	17.8	18.1	0.1	0.1	1.7%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3C	SP3C-16DEC25-R	2025-12-16	TSS	mg/L	12	11	1	1	8.7%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Na-D	mg/L	350	345	0.1	0.1	1.4%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ti-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	SO4-D	mg/L	710	710	10	10	0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sr-T	mg/L	1.61	1.63	0.002	0.002	1.2%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sr-D	mg/L	1.64	1.61	0.002	0.002	1.8%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Na-T	mg/L	340	342	0.1	0.1	0.6%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Temp-F	C	8.505	8.505			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	As-T	mg/L	0.00173	0.00175	0.0002	0.0002	1.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	As-D	mg/L	0.00067	0.00067	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Al-T	mg/L	0.0518	0.0674	0.006	0.006	26.2%	TRUE
SP3C	SP3C-16DEC25-R	2025-12-16	Turb-F	NTU	74.92	74.92			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Alk-T	mg/L	480	470	1	1	2.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	DO-F	mg/L	8.56	8.56			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cond-F	uS/cm	2075.5	2075.5			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ba-D	mg/L	0.0211	0.0212	0.002	0.002	0.5%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Sat-F	%	73.7	73.7			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	ORP-F	mV	150.5	150.5			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Hard-D	mg/L	470	464	0.5	0.5	1.3%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Acidity83	mg/L	<1.0	4.2	1	1		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Mg-D	mg/L	18.9	18.7	0.1	0.1	1.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	S-T	mg/L	249	255	6	6	2.4%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	S-D	mg/L	267	265	6	6	0.8%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	pH-F	pH Units	7.23	7.23			0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Hard-T	mg/L	433	442	0.5	0.5	2.1%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Li-D	mg/L	0.0156	0.0154	0.004	0.004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ba-T	mg/L	0.0234	0.0237	0.002	0.002	1.3%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Li-T	mg/L	0.016	0.0157	0.004	0.004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Fe-D	mg/L	0.704	0.723	0.01	0.01	2.7%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cu-T	mg/L	0.0019	0.0023	0.001	0.001		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Co-T	mg/L	0.00083	0.00087	0.0004	0.0004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Co-D	mg/L	0.00084	0.00081	0.0004	0.0004		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	B-D	mg/L	1.08	1.04	0.1	0.1	3.8%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Bicarb	mg/L	580	580	1	1	0.0%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Fe-T	mg/L	4.4	4.56	0.02	0.02	3.6%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	B-T	mg/L	1.07	1.02	0.1	0.1	4.8%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Be-D	mg/L	<0.000020	<0.000020	0.0002	0.0002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ca-D	mg/L	157	155	0.1	0.1	1.3%	FALSE
SP3C	SP3C-16DEC25-R	2025-12-16	Ca-T	mg/L	144	147	0.1	0.1	2.1%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3S	SP3S-16MAR26-R	2026-03-16	Ba-T	mg/L	0.0209	0.0207	0.001	0.001	1.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Turb-F	NTU	27.24	27.24			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	SO4-D	mg/L	540	560	5	5	3.6%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	DO-F	mg/L	9.75	9.75			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Li-D	mg/L	0.0127	0.0128	0.002	0.002	0.8%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sr-T	mg/L	1.48	1.41	0.001	0.001	4.8%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ba-D	mg/L	0.0205	0.0206	0.001	0.001	0.5%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	As-T	mg/L	0.00248	0.00236	0.0001	0.0001	5.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	As-D	mg/L	0.00164	0.00168	0.0001	0.0001	2.4%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cond-F	uS/cm	1809.3	1809.3			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Al-T	mg/L	0.0217	0.0222	0.003	0.003	2.3%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	ORP-F	mV	167.4	167.4			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	pH-F	pH Units	6.94	6.94			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sat-F	%	84.4	84.4			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Temp-F	C	8.711	8.711			0.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	S-T	mg/L	221	209	3	3	5.6%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	S-D	mg/L	219	213	3	3	2.8%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ca-D	mg/L	128	137	0.05	0.05	6.8%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mg-D	mg/L	16.2	14.8	0.05	0.05	9.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Hard-T	mg/L	406	399	0.5	0.5	1.7%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cu-T	mg/L	0.00138	0.00149	0.0005	0.0005		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Co-T	mg/L	0.00187	0.00185	0.0002	0.0002	1.1%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Co-D	mg/L	0.00198	0.00188	0.0002	0.0002	5.2%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Fe-T	mg/L	2.42	2.35	0.01	0.01	2.9%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ca-T	mg/L	137	136	0.05	0.05	0.7%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cd-T	mg/L	<0.000010	0.000014	0.00001	0.00001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	B-D	mg/L	1.04	0.905	0.05	0.05	13.9%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	B-T	mg/L	0.813	0.792	0.05	0.05	2.6%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	K-D	mg/L	4.94	4.83	0.05	0.05	2.3%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Na-T	mg/L	305	291	0.05	0.05	4.7%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Na-D	mg/L	313	286	0.05	0.05	9.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Si-T	mg/L	3.1	3.04	0.1	0.1	2.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Si-D	mg/L	3.08	3.35	0.1	0.1	8.4%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Fe-D	mg/L	0.787	0.777	0.005	0.005	1.3%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	K-T	mg/L	4.9	4.69	0.05	0.05	4.4%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Sr-D	mg/L	1.38	1.52	0.001	0.001	9.7%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ni-T	mg/L	0.0024	0.0023	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Ni-D	mg/L	0.0027	0.0023	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mn-T	mg/L	0.641	0.616	0.001	0.001	4.0%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mn-D	mg/L	0.693	0.651	0.001	0.001	6.2%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Mg-T	mg/L	15.3	14.6	0.05	0.05	4.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3S	SP3S-16MAR26-R	2026-03-16	Li-T	mg/L	0.0107	0.0099	0.002	0.002	7.8%	FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-16MAR26-R	2026-03-16	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	B-D	mg/L	1.22	1.17	0.1	0.1	4.2%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	B-T	mg/L	1.37	1.26	0.1	0.1	8.4%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sb-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	As-D	mg/L	0.00088	0.0009	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	As-T	mg/L	0.00188	0.00173	0.0002	0.0002	8.3%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ba-D	mg/L	0.02	0.0201	0.002	0.002	0.5%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ba-T	mg/L	0.0214	0.0204	0.002	0.002	4.8%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Be-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Be-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Bicarb	mg/L	580	580	1	1	0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cu-T	mg/L	0.0053	0.0016	0.001	0.001	107.2%	TRUE
SP3S	SP3S-19DEC25-R	2025-12-19	Bi-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Al-D	mg/L	<0.0060	<0.0060	0.006	0.006		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cd-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ca-D	mg/L	160	159	0.1	0.1	0.6%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ca-T	mg/L	161	144	0.1	0.1	11.1%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cr-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cr-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Co-D	mg/L	0.00099	0.00097	0.0004	0.0004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Co-T	mg/L	0.00089	0.00086	0.0004	0.0004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cd-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Bi-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	S-T	mg/L	251	243	6	6	3.2%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Turb-F	NTU	86.05	86.05			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	SG	m	2.26	2.26			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	ORP-F	mV	163.5	163.5			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Hard-D	mg/L	487	484	0.5	0.5	0.6%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Acidity83	mg/L	4.6	4	1	1		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sb-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	S-D	mg/L	268	266	6	6	0.7%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Al-T	mg/L	0.0093	0.0112	0.006	0.006		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Zr-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Zr-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Temp-F	C	7.001	7.001			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sat-F	%	69.7	69.7			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	pH-F	pH Units	7.19	7.19			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cond-F	uS/cm	2099.3	2099.3			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	DO-F	mg/L	8.39	8.39			0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Alk-T	mg/L	470	470	1	1	0.0%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Hard-T	mg/L	486	439	0.5	0.5	10.2%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ag-D	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ag-T	mg/L	<0.000040	<0.000040	0.00004	0.00004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Na-D	mg/L	391	375	0.1	0.1	4.2%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Na-T	mg/L	385	374	0.1	0.1	2.9%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sr-D	mg/L	1.74	1.71	0.002	0.002	1.7%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sr-T	mg/L	1.65	1.49	0.002	0.002	10.2%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	SO4-D	mg/L	660	690	10	10	4.4%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ti-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Cu-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Sn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Se-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ti-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ti-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	TSS	mg/L	11	12	1	1	8.7%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	U-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	U-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	V-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	V-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Zn-D	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ti-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3S	SP3S-19DEC25-R	2025-12-19	Mo-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Fe-D	mg/L	0.653	0.624	0.01	0.01	4.5%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Fe-T	mg/L	5.21	4.82	0.02	0.02	7.8%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Pb-D	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Pb-T	mg/L	<0.00040	<0.00040	0.0004	0.0004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Li-D	mg/L	0.0158	0.0155	0.004	0.004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Li-T	mg/L	0.0167	0.0151	0.004	0.004		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Mg-D	mg/L	21.3	21.1	0.1	0.1	0.9%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Mg-T	mg/L	20.4	19.2	0.1	0.1	6.1%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Si-T	mg/L	3.56	3.24	0.2	0.2	9.4%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Mn-T	mg/L	0.698	0.67	0.002	0.002	4.1%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Si-D	mg/L	3.58	3.53	0.2	0.2	1.4%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Mo-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ni-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Ni-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	pH-L	pH Units	7.85	7.81			0.5%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	K-D	mg/L	5.96	5.94	0.1	0.1	0.3%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	K-T	mg/L	5.73	5.49	0.1	0.1	4.3%	FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Se-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Zn-T	mg/L	<0.010	<0.010	0.01	0.01		FALSE
SP3S	SP3S-19DEC25-R	2025-12-19	Mn-D	mg/L	0.783	0.783	0.002	0.002	0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	As-D	mg/L	0.00182	0.00178	0.0001	0.0001	2.2%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Si-D	mg/L	2.96	3.19	0.1	0.1	7.5%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	K-T	mg/L	4.99	5.03	0.05	0.05	0.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	K-D	mg/L	5.07	5.01	0.05	0.05	1.2%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ni-T	mg/L	0.0035	0.0035	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mn-T	mg/L	0.715	0.713	0.001	0.001	0.3%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mn-D	mg/L	0.704	0.698	0.001	0.001	0.9%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mg-T	mg/L	16.5	16.7	0.05	0.05	1.2%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Turb-F	NTU	14.73	14.73			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Mg-D	mg/L	16.1	16.4	0.05	0.05	1.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Li-T	mg/L	0.0118	0.0119	0.002	0.002	0.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Li-D	mg/L	0.0128	0.0132	0.002	0.002	3.1%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ni-D	mg/L	0.0034	0.0035	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Si-T	mg/L	3.35	3.16	0.1	0.1	5.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Fe-T	mg/L	2.7	2.5	0.01	0.01	7.7%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	SO4-D	mg/L	640	650	10	10	1.6%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sr-T	mg/L	1.48	1.53	0.001	0.001	3.3%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sr-D	mg/L	1.44	1.46	0.001	0.001	1.4%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Na-T	mg/L	309	311	0.05	0.05	0.6%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Na-D	mg/L	296	302	0.05	0.05	2.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sat-F	%	81.5	81.5			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ba-D	mg/L	0.0203	0.0219	0.001	0.001	7.6%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	As-T	mg/L	0.00254	0.00262	0.0001	0.0001	3.1%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Al-T	mg/L	0.0049	<0.0030	0.003	0.003		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Al-D	mg/L	<0.0030	0.007	0.003	0.003		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	DO-F	mg/L	9.62	9.62			0.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3S	SP3S-30MAR26-R	2026-03-30	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	pH-F	pH Units	7.13	7.13			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Temp-F	C	7.864	7.864			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	S-T	mg/L	222	220	3	3	0.9%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	S-D	mg/L	217	226	3	3	4.1%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Hard-D	mg/L	425	446	0.5	0.5	4.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	ORP-F	mV	92.6	92.6			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cond-F	uS/cm	1767.8	1767.8			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ca-T	mg/L	151	140	0.05	0.05	7.6%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	SG	m	2.42	2.42			0.0%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Fe-D	mg/L	0.692	0.746	0.005	0.005	7.5%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Hard-T	mg/L	445	418	0.5	0.5	6.3%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cu-T	mg/L	0.00191	0.00186	0.0005	0.0005		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Co-T	mg/L	0.00278	0.00276	0.0002	0.0002	0.7%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Co-D	mg/L	0.00274	0.00277	0.0002	0.0002	1.1%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ba-T	mg/L	0.0215	0.0219	0.001	0.001	1.8%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Ca-D	mg/L	144	152	0.05	0.05	5.4%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cd-T	mg/L	0.000016	0.000012	0.00001	0.00001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	B-D	mg/L	0.883	0.907	0.05	0.05	2.7%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	B-T	mg/L	0.838	0.856	0.05	0.05	2.1%	FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-30MAR26-R	2026-03-30	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	S-T	mg/L	250	249	3	3	0.4%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mg-T	mg/L	16.6	16.5	0.05	0.05	0.6%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	K-T	mg/L	5.45	5.48	0.05	0.05	0.5%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	K-D	mg/L	5.63	5.76	0.05	0.05	2.3%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	pH-L	pH Units	7.97	8			0.4%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ni-T	mg/L	0.0015	0.0016	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ni-D	mg/L	0.0016	0.0017	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cu-T	mg/L	0.0015	0.00141	0.0005	0.0005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mn-D	mg/L	0.658	0.659	0.001	0.001	0.2%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Si-D	mg/L	2.99	2.96	0.1	0.1	1.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mg-D	mg/L	16.6	17.6	0.05	0.05	5.8%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Li-T	mg/L	0.013	0.0129	0.002	0.002	0.8%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Li-D	mg/L	0.0134	0.0133	0.002	0.002	0.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Fe-T	mg/L	3.12	3.14	0.01	0.01	0.6%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Fe-D	mg/L	0.196	0.203	0.005	0.005	3.5%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Mn-T	mg/L	0.614	0.619	0.001	0.001	0.8%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	SO4-D	mg/L	640	640	10	10	0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	U-D	mg/L	0.0001	0.0001	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	TSS	mg/L	8.4	8.8	1	1	4.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sr-T	mg/L	1.42	1.43	0.001	0.001	0.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sr-D	mg/L	1.45	1.47	0.001	0.001	1.4%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Na-T	mg/L	348	354	0.05	0.05	1.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Na-D	mg/L	348	373	0.05	0.05	6.9%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SP3S	SP3S-6JAN26-R	2026-01-06	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Si-T	mg/L	2.93	2.95	0.1	0.1	0.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cu-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Al-T	mg/L	0.0078	0.0055	0.003	0.003		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Al-D	mg/L	<0.0030	<0.0030	0.003	0.003		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Alk-T	mg/L	470	480	1	1	2.1%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	DO-F	mg/L	9.7	9.7			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cond-F	uS/cm	2266	2266			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	pH-F	pH Units	7.46	7.46			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sat-F	%	81.4	81.4			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Hard-T	mg/L	401	406	0.5	0.5	1.2%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	S-D	mg/L	249	257	3	3	3.2%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	As-D	mg/L	0.00092	0.00093	0.0001	0.0001	1.1%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Acidity83	mg/L	3.7	2.5	1	1		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Hard-D	mg/L	425	421	0.5	0.5	0.9%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	ORP-F	mV	277	277			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	SG	m	2.26	2.26			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Turb-F	NTU	61.5	61.5			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Temp-F	C	7.7	7.7			0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Co-T	mg/L	0.00112	0.00112	0.0002	0.0002	0.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Co-D	mg/L	0.00114	0.00118	0.0002	0.0002	3.4%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ca-T	mg/L	133	135	0.05	0.05	1.5%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ca-D	mg/L	143	139	0.05	0.05	2.8%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	B-T	mg/L	1.15	1.14	0.05	0.05	0.9%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Bicarb	mg/L	570	580	1	1	1.7%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ba-T	mg/L	0.0192	0.0194	0.001	0.001	1.0%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Ba-D	mg/L	0.0177	0.0181	0.001	0.001	2.2%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	As-T	mg/L	0.00162	0.00161	0.0001	0.0001	0.6%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	B-D	mg/L	1.19	1.14	0.05	0.05	4.3%	FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SP3S	SP3S-6JAN26-R	2026-01-06	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ba-T	mg/L	0.0087	0.0075	0.001	0.001	14.8%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Al-D	mg/L	0.0427	0.0421	0.003	0.003	1.4%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Al-T	mg/L	0.0606	0.047	0.003	0.003	25.3%	TRUE
SPC	SPC-1DEC25-R	2025-12-01	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	As-D	mg/L	0.00029	0.00028	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Alk-T	mg/L	49	49	1	1	0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ba-D	mg/L	0.0086	0.0086	0.001	0.001	0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Bicarb	mg/L	60	59	1	1	1.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	As-T	mg/L	0.00033	0.00029	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cond-F	uS/cm	369	369			0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	S-T	mg/L	45.3	39.5	3	3	13.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	S-D	mg/L	43.3	42.8	3	3	1.2%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SPC	SPC-1DEC25-R	2025-12-01	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Hard-D	mg/L	153	152	0.5	0.5	0.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	pH-F	pH Units	7.45	7.45			0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Temp-F	C	3	3			0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mn-T	mg/L	0.0015	0.0013	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mn-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mg-T	mg/L	6.73	6.21	0.05	0.05	8.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mg-D	mg/L	6.77	6.88	0.05	0.05	1.6%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Li-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Fe-T	mg/L	0.075	0.07	0.01	0.01	6.9%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Fe-D	mg/L	0.0562	0.0569	0.005	0.005	1.2%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ca-T	mg/L	51.5	47.9	0.05	0.05	7.2%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	B-T	mg/L	0.076	0.07	0.05	0.05		FALSE
SPC	SPC-1DEC25-R	2025-12-01	B-D	mg/L	0.073	0.074	0.05	0.05		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Hard-T	mg/L	156	145	0.5	0.5	7.3%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ca-D	mg/L	50.2	49.5	0.05	0.05	1.4%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cu-D	mg/L	0.00031	0.00032	0.0002	0.0002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Na-T	mg/L	10.2	9.42	0.05	0.05	8.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	SO4-D	mg/L	120	120	1	1	0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Sr-T	mg/L	0.307	0.275	0.001	0.001	11.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Sr-D	mg/L	0.304	0.302	0.001	0.001	0.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Na-D	mg/L	10.3	10.3	0.05	0.05	0.0%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Si-D	mg/L	3.33	3.42	0.1	0.1	2.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	K-T	mg/L	0.487	0.441	0.05	0.05	9.9%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	K-D	mg/L	0.502	0.491	0.05	0.05	2.2%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Si-T	mg/L	3.61	3.31	0.1	0.1	8.7%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	TSS	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-1DEC25-R	2025-12-01	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-1DEC25-R	2025-12-01	pH-L	pH Units	7.09	7.03			0.8%	FALSE
SPC	SPC-1DEC25-R	2025-12-01	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2JUN25-R	2025-06-02	SO4-D	mg/L	66	66	1.0	1.0	0.0%	FALSE
SPC	SPC-2JUN25-R	2025-06-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	Acidity83	mg/L	1.5	<1.0	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	Cond-F	uS/cm	249	249			0.0%	FALSE
SPC	SPC-2JUN25-R	2025-06-02	Alk-T	mg/L	49	50	1.0	1.0	2.0%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SPC	SPC-2JUN25-R	2025-06-02	Bicarb	mg/L	60	61	1.0	1.0	1.7%	FALSE
SPC	SPC-2JUN25-R	2025-06-02	Temp-F	C	15.1	15.1			0.0%	FALSE
SPC	SPC-2JUN25-R	2025-06-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	TSS	mg/L	1.6	1.2	1.0	1.0		FALSE
SPC	SPC-2JUN25-R	2025-06-02	pH-F	pH Units	8.05	8.05			0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Fe-T	mg/L	0.061	0.055	0.01	0.01	10.3%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cu-D	mg/L	0.00025	0.00026	0.0002	0.0002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Fe-D	mg/L	0.0446	0.0417	0.005	0.005	6.7%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Hard-T	mg/L	118	115	0.5	0.5	2.6%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ca-T	mg/L	39	37.6	0.05	0.05	3.7%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ca-D	mg/L	38.4	37.2	0.05	0.05	3.2%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Alk-PP	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	K-T	mg/L	0.379	0.379	0.05	0.05	0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	pH-L	pH Units	6.89	6.81	0	0	1.2%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	K-D	mg/L	0.364	0.377	0.05	0.05	3.5%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ni-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Li-D	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mo-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mn-T	mg/L	0.0021	0.0021	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mn-D	mg/L	0.0015	0.0015	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mg-T	mg/L	5.09	5.02	0.05	0.05	1.4%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Mg-D	mg/L	4.79	4.95	0.05	0.05	3.3%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Al-T	mg/L	0.0493	0.0478	0.003	0.003	3.1%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Hard-D	mg/L	116	113	0.5	0.5	2.6%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Hydrox	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Carb	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Acidity45	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	S-D	mg/L	28.4	29.1	3	3	2.4%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	S-T	mg/L	30.6	29.6	3	3	3.3%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Temp-F	C	3.8	3.8			0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	pH-F	pH Units	6.92	6.92			0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cond-F	uS/cm	297	297			0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Acidity83	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Al-D	mg/L	0.0403	0.0407	0.003	0.003	1.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	As-D	mg/L	0.00023	0.00024	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	As-T	mg/L	0.00027	0.00025	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ba-D	mg/L	0.0056	0.0055	0.001	0.001	1.8%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ba-T	mg/L	0.0055	0.0058	0.001	0.001	5.3%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Bicarb	mg/L	46	45	1	1	2.2%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	B-T	mg/L	0.06	0.056	0.05	0.05		FALSE
SPC	SPC-2MAR26-R	2026-03-02	B-D	mg/L	0.056	0.054	0.05	0.05		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Alk-T	mg/L	37	37	1	1	0.0%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	V-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Zn-T	mg/L	<0.0050	0.0078	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Si-D	mg/L	3.21	3.1	0.1	0.1	3.5%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
SPC	SPC-2MAR26-R	2026-03-02	Zn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	V-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	TSS	mg/L	<1.0	<1.0	1	1		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ti-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Si-T	mg/L	3.42	3.09	0.1	0.1	10.1%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sn-D	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ti-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ti-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
SPC	SPC-2MAR26-R	2026-03-02	SO4-D	mg/L	81	85	1	1	4.8%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sr-T	mg/L	0.226	0.227	0.001	0.001	0.4%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sr-D	mg/L	0.216	0.222	0.001	0.001	2.7%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Na-D	mg/L	5.6	5.72	0.05	0.05	2.1%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
SPC	SPC-2MAR26-R	2026-03-02	Na-T	mg/L	6.03	5.74	0.05	0.05	4.9%	FALSE
SPC	SPC-2MAR26-R	2026-03-02	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005		FALSE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	Cond-F	uS/cm	1275	1275			0.0%	FALSE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	H2S	mg/L	4.7	5.7	0.096	0.096	19.2%	FALSE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	pH-F	pH Units	7.4	7.4			0.0%	FALSE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	SO4-D	mg/L	340	350	5.0	5.0	2.9%	FALSE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	S2-T	mg/L	4.4	5.4	0.090	0.090	20.4%	TRUE
SPCEFF	SPCEFF-22SEP25-R	2025-09-22	Temp-F	C	14.4	14.4			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	SG	m	0.08	0.08			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	Wlevel	m	0.09	0.09			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	Tot.		156953840	156953840			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	Temp-F	C	8.4	8.4			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	pH-F	pH Units	7.29	7.29			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	Cond-F	uS/cm	656	656			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	SO4-D	mg/L	240	250	5	5	4.1%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	Flow	m3/s	0.07508	0.07508			0.0%	FALSE
SPD	SPD-10NOV25-R	2025-11-10	TSS	mg/L	<1.0	<1.0	1	1		FALSE
SPD	SPD-14APR25-R	2025-04-14	pH-F	pH Units	7.51	7.51			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
SPD	SPD-14APR25-R	2025-04-14	Cond-F	uS/cm	832	832			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	Flow	m3/s	0.02411	0.02411			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	Wlevel	m	0.04	0.04			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	Temp-F	C	10.3	10.3			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	SG	m	0.03	0.03			0.0%	FALSE
SPD	SPD-14APR25-R	2025-04-14	SO4-D	mg/L	300	310	5.0	5.0	3.3%	FALSE
SPD	SPD-16JUN25-R	2025-06-16	Cond-F	uS/cm	854	854			0.0%	FALSE
SPD	SPD-16JUN25-R	2025-06-16	SG	m	0	0				FALSE
SPD	SPD-16JUN25-R	2025-06-16	SO4-D	mg/L	320	320	5.0	5.0	0.0%	FALSE
SPD	SPD-16JUN25-R	2025-06-16	pH-F	pH Units	7.61	7.61			0.0%	FALSE
SPD	SPD-16JUN25-R	2025-06-16	Flow	m3/s	0	0				FALSE
SPD	SPD-16JUN25-R	2025-06-16	Wlevel	m	-0.03	-0.03				FALSE
SPD	SPD-16JUN25-R	2025-06-16	Temp-F	C	14	14			0.0%	FALSE
SPD	SPD-16JUN25-R	2025-06-16	TSS	mg/L	1.6	1.6	1.0	1.0		FALSE
SPD	SPD-22DEC25-R	2025-12-22	SO4-D	mg/L	230	220	5	5	4.4%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	Cond-F	uS/cm	695	695			0.0%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	Flow	m3/s	0.0402	0.0402			0.0%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	TSS	mg/L	<1.0	1.6	1	1		FALSE
SPD	SPD-22DEC25-R	2025-12-22	pH-F	pH Units	6.84	6.84			0.0%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	Temp-F	C	3.8	3.8			0.0%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	Wlevel	m	0.06	0.06			0.0%	FALSE
SPD	SPD-22DEC25-R	2025-12-22	SG	m	0.045	0.045			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	DOC	mg/L	1.9	2.0	0.50	0.50		FALSE
WA	WA-27AUG25-R	2025-08-27	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	B-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-27AUG25-R	2025-08-27	Ba-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Bicarb	mg/L	29	30	1.0	1.0	3.4%	FALSE
WA	WA-27AUG25-R	2025-08-27	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Benzo(k)fluo	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-27AUG25-R	2025-08-27	Benzo(a)pyre	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Ca-D	mg/L	7.74	7.88	0.050	0.050	1.8%	FALSE
WA	WA-27AUG25-R	2025-08-27	Benzo(a)anthracen	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	Ca-T	mg/L	7.33	7.94	0.050	0.050	8.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-27AUG25-R	2025-08-27	ACENAPHTHYLENE	%	100	102			2.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Hard-D	mg/L	22.9	23.2	0.50	0.50	1.3%	FALSE
WA	WA-27AUG25-R	2025-08-27	TOC	mg/L	2.1	2.0	0.50	0.50		FALSE
WA	WA-27AUG25-R	2025-08-27	2-Methnaphthe	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Benzo(b)flu	mg/L	<0.000030	<0.000030	0.000030	0.000030		FALSE
WA	WA-27AUG25-R	2025-08-27	Benzo(ghi)per	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	D10-ANTH	%	102	104			1.9%	FALSE
WA	WA-27AUG25-R	2025-08-27	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-27AUG25-R	2025-08-27	PAHLOWMW	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	PAHHIGHMW	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	PAH22	mg/L	<0.0000030	<0.0000030	0.0000030	0.0000030		FALSE
WA	WA-27AUG25-R	2025-08-27	-NAPHTHALENE(su	%	79	75			5.2%	FALSE
WA	WA-27AUG25-R	2025-08-27	D-14TER	%	86	86			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Methylnaphthalen	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Fluorene	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	ORP-F	mV	151.3	151.3			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Acenaphthene	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	As-T	mg/L	0.00015	0.00013	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	As-D	mg/L	0.00014	0.00013	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-27AUG25-R	2025-08-27	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-27AUG25-R	2025-08-27	Anthrac	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	Al-T	mg/L	0.0184	0.0188	0.0030	0.0030	2.2%	FALSE
WA	WA-27AUG25-R	2025-08-27	Al-D	mg/L	0.0133	0.0118	0.0030	0.0030		FALSE
WA	WA-27AUG25-R	2025-08-27	Alk-T	mg/L	24	24	1.0	1.0	0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Acidity83	mg/L	1.7	2.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Acenaphthy	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	DO-F	mg/L	8.95	8.95			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Cond-F	uS/cm	36	36			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	pH-F	pH Units	7.2	7.2			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Temp-F	C	20.7	20.7			0.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Ba-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Acridine	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	P-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
WA	WA-27AUG25-R	2025-08-27	Naphth	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	N-NO3	mg/L	<0.020	<0.020	0.020	0.020		FALSE
WA	WA-27AUG25-R	2025-08-27	N-NO23	mg/L	<0.020	<0.020	0.020	0.020		FALSE
WA	WA-27AUG25-R	2025-08-27	N-NO2	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Phenantr	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Mn-T	mg/L	0.0018	0.0021	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	P-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
WA	WA-27AUG25-R	2025-08-27	K-D	mg/L	0.059	0.065	0.050	0.050		FALSE
WA	WA-27AUG25-R	2025-08-27	K-T	mg/L	0.054	0.054	0.050	0.050		FALSE
WA	WA-27AUG25-R	2025-08-27	Pyrene	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Quinoline	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	pH-L	pH Units	7.04	7.17			1.8%	FALSE
WA	WA-27AUG25-R	2025-08-27	Sr-D	mg/L	0.0123	0.0127	0.0010	0.0010	3.2%	FALSE
WA	WA-27AUG25-R	2025-08-27	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-27AUG25-R	2025-08-27	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Turb	NTU	0.19	0.60	0.10	0.10	103.8%	TRUE
WA	WA-27AUG25-R	2025-08-27	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	PAH-Total	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	Mn-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Si-D	mg/L	1.95	1.94	0.10	0.10	0.5%	FALSE
WA	WA-27AUG25-R	2025-08-27	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-27AUG25-R	2025-08-27	Fe-T	mg/L	0.018	0.018	0.010	0.010		FALSE
WA	WA-27AUG25-R	2025-08-27	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-27AUG25-R	2025-08-27	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-27AUG25-R	2025-08-27	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WA	WA-27AUG25-R	2025-08-27	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WA	WA-27AUG25-R	2025-08-27	Mg-D	mg/L	0.867	0.852	0.050	0.050	1.7%	FALSE
WA	WA-27AUG25-R	2025-08-27	Mg-T	mg/L	0.803	0.831	0.050	0.050	3.4%	FALSE
WA	WA-27AUG25-R	2025-08-27	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-27AUG25-R	2025-08-27	Indeno(123cd)pyr	mg/L	<0.000050	<0.000050	0.000050	0.000050		FALSE
WA	WA-27AUG25-R	2025-08-27	Hard-T	mg/L	21.6	23.2	0.50	0.50	7.1%	FALSE
WA	WA-27AUG25-R	2025-08-27	Fluoranthene	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Fe-D	mg/L	0.0118	0.0120	0.0050	0.0050		FALSE
WA	WA-27AUG25-R	2025-08-27	Cu-D	mg/L	0.00055	0.00052	0.00020	0.00020		FALSE
WA	WA-27AUG25-R	2025-08-27	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-27AUG25-R	2025-08-27	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-27AUG25-R	2025-08-27	Chrysene	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Sr-T	mg/L	0.0122	0.0131	0.0010	0.0010	7.1%	FALSE
WA	WA-27AUG25-R	2025-08-27	SO4-D	mg/L	1.3	1.3	1.0	1.0		FALSE
WA	WA-27AUG25-R	2025-08-27	Tl-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-27AUG25-R	2025-08-27	Na-T	mg/L	0.679	0.674	0.050	0.050	0.7%	FALSE
WA	WA-27AUG25-R	2025-08-27	Na-D	mg/L	0.690	0.688	0.050	0.050	0.3%	FALSE
WA	WA-27AUG25-R	2025-08-27	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-27AUG25-R	2025-08-27	Si-T	mg/L	1.92	2.06	0.10	0.10	7.0%	FALSE
WA	WA-27AUG25-R	2025-08-27	Cu-T	mg/L	0.00072	0.00057	0.00050	0.00050		FALSE
WA	WA-3JUL25-R	2025-07-03	U-D	mg/L	0.0000032	0.0000050	0.0000020	0.0000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Cu-D	mg/L	0.000523	0.000588	0.000050	0.000050	11.7%	FALSE
WA	WA-3JUL25-R	2025-07-03	Ba-T	mg/L	0.000591	0.000737	0.000050	0.000050	22.0%	TRUE
WA	WA-3JUL25-R	2025-07-03	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-3JUL25-R	2025-07-03	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-3JUL25-R	2025-07-03	Bicarb	mg/L	28	29	1.0	1.0	3.5%	FALSE
WA	WA-3JUL25-R	2025-07-03	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Bi-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-3JUL25-R	2025-07-03	B-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-3JUL25-R	2025-07-03	As-T	mg/L	0.000086	0.000097	0.000020	0.000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-3JUL25-R	2025-07-03	As-D	mg/L	0.000100	0.000134	0.000020	0.000020	29.1%	TRUE
WA	WA-3JUL25-R	2025-07-03	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Ca-D	mg/L	7.22	7.52	0.050	0.050	4.1%	FALSE
WA	WA-3JUL25-R	2025-07-03	Ca-T	mg/L	6.92	6.69	0.25	0.25	3.4%	FALSE
WA	WA-3JUL25-R	2025-07-03	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-3JUL25-R	2025-07-03	Cr-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
WA	WA-3JUL25-R	2025-07-03	Co-D	mg/L	0.0000094	0.0000202	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	V-D	mg/L	0.00025	0.00030	0.00020	0.00020		FALSE
WA	WA-3JUL25-R	2025-07-03	B-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-3JUL25-R	2025-07-03	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-3JUL25-R	2025-07-03	DOC	mg/L	2.1	2.0	0.50	0.50		FALSE
WA	WA-3JUL25-R	2025-07-03	Hard-D	mg/L	21.1	21.8	0.50	0.50	3.3%	FALSE
WA	WA-3JUL25-R	2025-07-03	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-3JUL25-R	2025-07-03	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Ba-D	mg/L	0.000659	0.000918	0.000020	0.000020	32.8%	TRUE
WA	WA-3JUL25-R	2025-07-03	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-3JUL25-R	2025-07-03	Cu-T	mg/L	0.00053	0.00058	0.00010	0.00010	9.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	Temp-F	C	18.7	18.7			0.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	pH-F	pH Units	7.52	7.52			0.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	Cond-F	uS/cm	50.9	50.9			0.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	Alk-T	mg/L	23	24	1.0	1.0	4.3%	FALSE
WA	WA-3JUL25-R	2025-07-03	Al-D	mg/L	0.0139	0.0342	0.00050	0.00050	84.4%	TRUE
WA	WA-3JUL25-R	2025-07-03	Al-T	mg/L	0.0173	0.0253	0.0030	0.0030	37.6%	TRUE
WA	WA-3JUL25-R	2025-07-03	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Sb-T	mg/L	0.000051	<0.000020	0.000020	0.000020		FALSE
WA	WA-3JUL25-R	2025-07-03	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Co-T	mg/L	0.000011	0.000018	0.000010	0.000010		FALSE
WA	WA-3JUL25-R	2025-07-03	Si-T	mg/L	1.88	1.87	0.050	0.050	0.5%	FALSE
WA	WA-3JUL25-R	2025-07-03	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Ag-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-3JUL25-R	2025-07-03	Na-D	mg/L	0.588	0.590	0.050	0.050	0.3%	FALSE
WA	WA-3JUL25-R	2025-07-03	Na-T	mg/L	0.60	0.57	0.25	0.25		FALSE
WA	WA-3JUL25-R	2025-07-03	Sr-D	mg/L	0.0117	0.0121	0.000050	0.000050	3.4%	FALSE
WA	WA-3JUL25-R	2025-07-03	Sr-T	mg/L	0.0110	0.0108	0.000050	0.000050	1.8%	FALSE
WA	WA-3JUL25-R	2025-07-03	Se-T	mg/L	0.000066	0.000070	0.000040	0.000040		FALSE
WA	WA-3JUL25-R	2025-07-03	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Se-D	mg/L	0.000056	0.000062	0.000040	0.000040		FALSE
WA	WA-3JUL25-R	2025-07-03	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-3JUL25-R	2025-07-03	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-3JUL25-R	2025-07-03	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-3JUL25-R	2025-07-03	Ti-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WA	WA-3JUL25-R	2025-07-03	TSS	mg/L	1.6	1.2	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Zn-T	mg/L	<0.0010	0.0011	0.0010	0.0010		FALSE
WA	WA-3JUL25-R	2025-07-03	U-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	V-T	mg/L	<0.00020	0.00023	0.00020	0.00020		FALSE
WA	WA-3JUL25-R	2025-07-03	SO4-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-3JUL25-R	2025-07-03	Mn-D	mg/L	0.00138	0.00252	0.000050	0.000050	58.5%	TRUE
WA	WA-3JUL25-R	2025-07-03	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-3JUL25-R	2025-07-03	Hard-T	mg/L	20.3	19.7	0.50	0.50	3.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	Fe-D	mg/L	0.0120	0.0304	0.0010	0.0010	86.8%	TRUE
WA	WA-3JUL25-R	2025-07-03	Fe-T	mg/L	0.0200	0.0385	0.0050	0.0050	63.2%	TRUE
WA	WA-3JUL25-R	2025-07-03	Pb-D	mg/L	<0.0000050	0.0000115	0.0000050	0.0000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Pb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-3JUL25-R	2025-07-03	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-3JUL25-R	2025-07-03	Si-D	mg/L	1.73	1.81	0.050	0.050	4.5%	FALSE
WA	WA-3JUL25-R	2025-07-03	Mg-T	mg/L	0.73	0.73	0.25	0.25		FALSE
WA	WA-3JUL25-R	2025-07-03	Zn-D	mg/L	0.00081	0.00086	0.00010	0.00010	6.0%	FALSE
WA	WA-3JUL25-R	2025-07-03	Mn-T	mg/L	0.00195	0.00319	0.00010	0.00010	48.2%	TRUE
WA	WA-3JUL25-R	2025-07-03	Mo-D	mg/L	0.000185	0.000176	0.000050	0.000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Mo-T	mg/L	0.000140	0.000154	0.000050	0.000050		FALSE
WA	WA-3JUL25-R	2025-07-03	Ni-D	mg/L	0.000038	0.000049	0.000020	0.000020		FALSE
WA	WA-3JUL25-R	2025-07-03	Ni-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-3JUL25-R	2025-07-03	P-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-3JUL25-R	2025-07-03	K-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-3JUL25-R	2025-07-03	K-T	mg/L	<0.25	<0.25	0.25	0.25		FALSE
WA	WA-3JUL25-R	2025-07-03	Mg-D	mg/L	0.736	0.729	0.050	0.050	1.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Na-D	mg/L	0.689	0.707	0.050	0.050	2.6%	FALSE
WA	WA-6OCT25-R	2025-10-06	Na-T	mg/L	0.755	0.744	0.050	0.050	1.5%	FALSE
WA	WA-6OCT25-R	2025-10-06	Al-T	mg/L	0.0173	0.0172	0.00050	0.00050	0.6%	FALSE
WA	WA-6OCT25-R	2025-10-06	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Si-T	mg/L	2.07	2.08	0.050	0.050	0.5%	FALSE
WA	WA-6OCT25-R	2025-10-06	Si-D	mg/L	1.86	1.93	0.050	0.050	3.7%	FALSE
WA	WA-6OCT25-R	2025-10-06	Se-T	mg/L	0.000055	0.000053	0.000040	0.000040		FALSE
WA	WA-6OCT25-R	2025-10-06	Sr-D	mg/L	0.0123	0.0122	0.000050	0.000050	0.8%	FALSE
WA	WA-6OCT25-R	2025-10-06	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-6OCT25-R	2025-10-06	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-6OCT25-R	2025-10-06	Co-D	mg/L	0.0000071	0.0000090	0.0000050	0.0000050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-6OCT25-R	2025-10-06	Co-T	mg/L	0.000093	0.000108	0.000050	0.000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Cu-D	mg/L	0.000561	0.000553	0.000050	0.000050	1.4%	FALSE
WA	WA-6OCT25-R	2025-10-06	Cu-T	mg/L	0.000593	0.000586	0.000050	0.000050	1.2%	FALSE
WA	WA-6OCT25-R	2025-10-06	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-6OCT25-R	2025-10-06	Hard-T	mg/L	21.8	21.6	0.50	0.50	0.9%	FALSE
WA	WA-6OCT25-R	2025-10-06	Fe-D	mg/L	0.0095	0.0089	0.0010	0.0010	6.5%	FALSE
WA	WA-6OCT25-R	2025-10-06	Fe-T	mg/L	0.0129	0.0134	0.0010	0.0010	3.8%	FALSE
WA	WA-6OCT25-R	2025-10-06	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Alk-T	mg/L	23	23	1.0	1.0	0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-6OCT25-R	2025-10-06	Ca-T	mg/L	7.41	7.35	0.050	0.050	0.8%	FALSE
WA	WA-6OCT25-R	2025-10-06	Mg-D	mg/L	0.754	0.748	0.050	0.050	0.8%	FALSE
WA	WA-6OCT25-R	2025-10-06	Mg-T	mg/L	0.791	0.801	0.050	0.050	1.3%	FALSE
WA	WA-6OCT25-R	2025-10-06	Mn-D	mg/L	0.000716	0.000688	0.000050	0.000050	4.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Mn-T	mg/L	0.00121	0.00148	0.000050	0.000050	20.1%	TRUE
WA	WA-6OCT25-R	2025-10-06	Mo-D	mg/L	0.000189	0.000262	0.000050	0.000050	32.4%	TRUE
WA	WA-6OCT25-R	2025-10-06	Mo-T	mg/L	0.000172	0.000195	0.000050	0.000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Ni-D	mg/L	0.000044	0.000041	0.000020	0.000020		FALSE
WA	WA-6OCT25-R	2025-10-06	Ni-T	mg/L	0.000038	0.000044	0.000020	0.000020		FALSE
WA	WA-6OCT25-R	2025-10-06	pH-L	pH Units	6.72	6.73			0.1%	FALSE
WA	WA-6OCT25-R	2025-10-06	K-D	mg/L	0.056	0.060	0.050	0.050		FALSE
WA	WA-6OCT25-R	2025-10-06	K-T	mg/L	0.058	0.055	0.050	0.050		FALSE
WA	WA-6OCT25-R	2025-10-06	Pb-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-6OCT25-R	2025-10-06	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-6OCT25-R	2025-10-06	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-6OCT25-R	2025-10-06	Temp-F	C	14.5	14.5			0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	pH-F	pH Units	8.09	8.09			0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Cond-F	uS/cm	53.3	53.3			0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Sr-T	mg/L	0.0130	0.0131	0.000050	0.000050	0.8%	FALSE
WA	WA-6OCT25-R	2025-10-06	Al-D	mg/L	0.0142	0.0143	0.00050	0.00050	0.7%	FALSE
WA	WA-6OCT25-R	2025-10-06	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-6OCT25-R	2025-10-06	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-6OCT25-R	2025-10-06	As-D	mg/L	0.000130	0.000140	0.000020	0.000020	7.4%	FALSE
WA	WA-6OCT25-R	2025-10-06	As-T	mg/L	0.000139	0.000142	0.000020	0.000020	2.1%	FALSE
WA	WA-6OCT25-R	2025-10-06	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-6OCT25-R	2025-10-06	Ba-T	mg/L	0.000997	0.000985	0.000020	0.000020	1.2%	FALSE
WA	WA-6OCT25-R	2025-10-06	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-6OCT25-R	2025-10-06	Bicarb	mg/L	28	28	1.0	1.0	0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	B-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-6OCT25-R	2025-10-06	B-D	mg/L	0.011	0.012	0.010	0.010		FALSE
WA	WA-6OCT25-R	2025-10-06	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-6OCT25-R	2025-10-06	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-6OCT25-R	2025-10-06	Ca-D	mg/L	6.95	6.98	0.050	0.050	0.4%	FALSE
WA	WA-6OCT25-R	2025-10-06	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Ba-D	mg/L	0.000911	0.000954	0.000020	0.000020	4.6%	FALSE
WA	WA-6OCT25-R	2025-10-06	DOC	mg/L	2.1	2.1	0.50	0.50		FALSE
WA	WA-6OCT25-R	2025-10-06	Se-D	mg/L	0.000061	0.000067	0.000040	0.000040		FALSE
WA	WA-6OCT25-R	2025-10-06	SO4-D	mg/L	1.2	1.3	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Acidity83	mg/L	1.3	1.1	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Hard-D	mg/L	20.5	20.5	0.50	0.50	0.0%	FALSE
WA	WA-6OCT25-R	2025-10-06	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-6OCT25-R	2025-10-06	Zn-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-6OCT25-R	2025-10-06	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-6OCT25-R	2025-10-06	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-6OCT25-R	2025-10-06	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-6OCT25-R	2025-10-06	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-6OCT25-R	2025-10-06	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-6OCT25-R	2025-10-06	Zn-D	mg/L	0.00076	0.00335	0.00010	0.00010	126.0%	TRUE
WA	WA-6OCT25-R	2025-10-06	TSS	mg/L	1.6	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-6OCT25-R	2025-10-06	U-D	mg/L	0.0000030	0.0000034	0.0000020	0.0000020		FALSE
WA	WA-6OCT25-R	2025-10-06	U-T	mg/L	0.0000038	0.0000045	0.0000020	0.0000020		FALSE
WA	WA-6OCT25-R	2025-10-06	V-D	mg/L	0.00022	0.00024	0.00020	0.00020		FALSE
WA	WA-6OCT25-R	2025-10-06	V-T	mg/L	0.00022	0.00022	0.00020	0.00020		FALSE
WA	WA-6OCT25-R	2025-10-06	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-7APR25-R	2025-04-07	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-7APR25-R	2025-04-07	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	DOC	mg/L	2.0	2.0	0.50	0.50		FALSE
WA	WA-7APR25-R	2025-04-07	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-7APR25-R	2025-04-07	Hard-D	mg/L	20.6	21.0	0.50	0.50	1.9%	FALSE
WA	WA-7APR25-R	2025-04-07	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Si-T	mg/L	1.96	1.91	0.10	0.10	2.6%	FALSE
WA	WA-7APR25-R	2025-04-07	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	K-T	mg/L	0.053	0.056	0.050	0.050		FALSE
WA	WA-7APR25-R	2025-04-07	K-D	mg/L	0.054	0.060	0.050	0.050		FALSE
WA	WA-7APR25-R	2025-04-07	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Na-T	mg/L	0.619	0.614	0.050	0.050	0.8%	FALSE
WA	WA-7APR25-R	2025-04-07	Mn-T	mg/L	0.0024	0.0029	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Mn-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Mg-T	mg/L	0.727	0.712	0.050	0.050	2.1%	FALSE
WA	WA-7APR25-R	2025-04-07	Mg-D	mg/L	0.750	0.773	0.050	0.050	3.0%	FALSE
WA	WA-7APR25-R	2025-04-07	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WA	WA-7APR25-R	2025-04-07	Li-D	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WA	WA-7APR25-R	2025-04-07	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	U-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	TSS	mg/L	<1.0	5.2	1.0	1.0	135.5%	TRUE
WA	WA-7APR25-R	2025-04-07	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-7APR25-R	2025-04-07	Si-D	mg/L	1.93	1.95	0.10	0.10	1.0%	FALSE
WA	WA-7APR25-R	2025-04-07	Na-D	mg/L	0.655	0.669	0.050	0.050	2.1%	FALSE
WA	WA-7APR25-R	2025-04-07	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-7APR25-R	2025-04-07	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-7APR25-R	2025-04-07	SO4-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Sr-T	mg/L	0.0115	0.0113	0.0010	0.0010	1.8%	FALSE
WA	WA-7APR25-R	2025-04-07	Sr-D	mg/L	0.0123	0.0120	0.0010	0.0010	2.5%	FALSE
WA	WA-7APR25-R	2025-04-07	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7APR25-R	2025-04-07	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Bicarb	mg/L	26	25	1.0	1.0	3.9%	FALSE
WA	WA-7APR25-R	2025-04-07	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Ba-T	mg/L	0.0014	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Ba-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	As-T	mg/L	<0.00010	0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7APR25-R	2025-04-07	Al-T	mg/L	0.0422	0.0554	0.0030	0.0030	27.0%	TRUE
WA	WA-7APR25-R	2025-04-07	Al-D	mg/L	0.0150	0.0174	0.0030	0.0030	14.8%	FALSE
WA	WA-7APR25-R	2025-04-07	Cond-F	uS/cm	68	68			0.0%	FALSE
WA	WA-7APR25-R	2025-04-07	pH-F	pH Units	7.27	7.27			0.0%	FALSE
WA	WA-7APR25-R	2025-04-07	Temp-F	C	9.7	9.7			0.0%	FALSE
WA	WA-7APR25-R	2025-04-07	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-7APR25-R	2025-04-07	Fe-T	mg/L	0.032	0.043	0.010	0.010		FALSE
WA	WA-7APR25-R	2025-04-07	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	As-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7APR25-R	2025-04-07	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	Fe-D	mg/L	0.0061	0.0180	0.0050	0.0050		FALSE
WA	WA-7APR25-R	2025-04-07	Hard-T	mg/L	20.3	19.4	0.50	0.50	4.5%	FALSE
WA	WA-7APR25-R	2025-04-07	Alk-T	mg/L	21	20	1.0	1.0	4.9%	FALSE
WA	WA-7APR25-R	2025-04-07	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-7APR25-R	2025-04-07	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-7APR25-R	2025-04-07	Cu-D	mg/L	0.00059	0.00070	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7APR25-R	2025-04-07	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WA	WA-7APR25-R	2025-04-07	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-7APR25-R	2025-04-07	Ca-T	mg/L	6.92	6.59	0.050	0.050	4.9%	FALSE
WA	WA-7APR25-R	2025-04-07	Ca-D	mg/L	6.99	7.14	0.050	0.050	2.1%	FALSE
WA	WA-7APR25-R	2025-04-07	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-7APR25-R	2025-04-07	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-7APR25-R	2025-04-07	B-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-7APR25-R	2025-04-07	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7APR25-R	2025-04-07	Cu-T	mg/L	0.00073	0.00081	0.00050	0.00050		FALSE
WA	WA-7JUL25-R	2025-07-07	Co-T	mg/L	0.0000159	0.0000103	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Co-D	mg/L	0.0000100	0.0000118	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7JUL25-R	2025-07-07	DOC	mg/L	1.9	1.9	0.50	0.50		FALSE
WA	WA-7JUL25-R	2025-07-07	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Hard-D	mg/L	22.1	21.8	0.50	0.50	1.4%	FALSE
WA	WA-7JUL25-R	2025-07-07	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Cu-D	mg/L	0.000591	0.000580	0.000050	0.000050	1.9%	FALSE
WA	WA-7JUL25-R	2025-07-07	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7JUL25-R	2025-07-07	Acidity83	mg/L	1.3	1.2	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Cu-T	mg/L	0.000584	0.000557	0.000050	0.000050	4.7%	FALSE
WA	WA-7JUL25-R	2025-07-07	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-7JUL25-R	2025-07-07	Hard-T	mg/L	23.2	24.1	0.50	0.50	3.8%	FALSE
WA	WA-7JUL25-R	2025-07-07	Fe-D	mg/L	0.0111	0.0105	0.0010	0.0010	5.6%	FALSE
WA	WA-7JUL25-R	2025-07-07	Fe-T	mg/L	0.0246	0.0171	0.0010	0.0010	36.0%	TRUE
WA	WA-7JUL25-R	2025-07-07	Pb-T	mg/L	0.0000120	0.0000107	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7JUL25-R	2025-07-07	Mg-D	mg/L	0.788	0.792	0.050	0.050	0.5%	FALSE
WA	WA-7JUL25-R	2025-07-07	Mg-T	mg/L	0.826	0.878	0.050	0.050	6.1%	FALSE
WA	WA-7JUL25-R	2025-07-07	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7JUL25-R	2025-07-07	B-D	mg/L	<0.010	0.010	0.010	0.010		FALSE
WA	WA-7JUL25-R	2025-07-07	Mn-T	mg/L	0.00272	0.00193	0.000050	0.000050	34.0%	TRUE
WA	WA-7JUL25-R	2025-07-07	Mn-D	mg/L	0.00109	0.00109	0.000050	0.000050	0.0%	FALSE
WA	WA-7JUL25-R	2025-07-07	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Be-D	mg/L	<0.000010	0.000015	0.000010	0.000010		FALSE
WA	WA-7JUL25-R	2025-07-07	Mo-D	mg/L	0.000179	0.000230	0.000050	0.000050		FALSE
WA	WA-7JUL25-R	2025-07-07	U-D	mg/L	0.0000026	0.0000028	0.0000020	0.0000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7JUL25-R	2025-07-07	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Ca-T	mg/L	7.93	8.20	0.050	0.050	3.3%	FALSE
WA	WA-7JUL25-R	2025-07-07	Ca-D	mg/L	7.53	7.40	0.050	0.050	1.7%	FALSE
WA	WA-7JUL25-R	2025-07-07	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-7JUL25-R	2025-07-07	B-T	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WA	WA-7JUL25-R	2025-07-07	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WA	WA-7JUL25-R	2025-07-07	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WA	WA-7JUL25-R	2025-07-07	Ba-T	mg/L	0.000640	0.000716	0.000020	0.000020	11.2%	FALSE
WA	WA-7JUL25-R	2025-07-07	Ba-D	mg/L	0.000679	0.000637	0.000020	0.000020	6.4%	FALSE
WA	WA-7JUL25-R	2025-07-07	As-T	mg/L	0.000128	0.000125	0.000020	0.000020	2.4%	FALSE
WA	WA-7JUL25-R	2025-07-07	As-D	mg/L	0.000109	0.000096	0.000020	0.000020	12.7%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WA	WA-7JUL25-R	2025-07-07	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Al-T	mg/L	0.0243	0.0211	0.00050	0.00050	14.1%	FALSE
WA	WA-7JUL25-R	2025-07-07	Al-D	mg/L	0.0161	0.0184	0.00050	0.00050	13.3%	FALSE
WA	WA-7JUL25-R	2025-07-07	Alk-T	mg/L	23	23	1.0	1.0	0.0%	FALSE
WA	WA-7JUL25-R	2025-07-07	Cond-F	uS/cm	51.6	51.6			0.0%	FALSE
WA	WA-7JUL25-R	2025-07-07	pH-F	pH Units	7.27	7.27			0.0%	FALSE
WA	WA-7JUL25-R	2025-07-07	Temp-F	C	19.7	19.7			0.0%	FALSE
WA	WA-7JUL25-R	2025-07-07	Bicarb	mg/L	28	29	1.0	1.0	3.5%	FALSE
WA	WA-7JUL25-R	2025-07-07	U-T	mg/L	0.0000039	0.0000038	0.0000020	0.0000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7JUL25-R	2025-07-07	Zn-T	mg/L	0.00027	0.00032	0.00010	0.00010		FALSE
WA	WA-7JUL25-R	2025-07-07	Zn-D	mg/L	0.00110	0.00256	0.00010	0.00010	79.8%	TRUE
WA	WA-7JUL25-R	2025-07-07	V-D	mg/L	0.00027	0.00026	0.00020	0.00020		FALSE
WA	WA-7JUL25-R	2025-07-07	Mo-T	mg/L	0.000157	0.000181	0.000050	0.000050		FALSE
WA	WA-7JUL25-R	2025-07-07	TSS	mg/L	2.0	1.2	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WA	WA-7JUL25-R	2025-07-07	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7JUL25-R	2025-07-07	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WA	WA-7JUL25-R	2025-07-07	Ti-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Ti-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WA	WA-7JUL25-R	2025-07-07	SO4-D	mg/L	1.2	1.2	1.0	1.0		FALSE
WA	WA-7JUL25-R	2025-07-07	Sr-T	mg/L	0.0121	0.0125	0.000050	0.000050	3.3%	FALSE
WA	WA-7JUL25-R	2025-07-07	K-D	mg/L	0.052	0.052	0.050	0.050		FALSE
WA	WA-7JUL25-R	2025-07-07	V-T	mg/L	0.00028	0.00024	0.00020	0.00020		FALSE
WA	WA-7JUL25-R	2025-07-07	Sr-D	mg/L	0.0118	0.0121	0.000050	0.000050	2.5%	FALSE
WA	WA-7JUL25-R	2025-07-07	Ni-D	mg/L	0.000046	0.000043	0.000020	0.000020		FALSE
WA	WA-7JUL25-R	2025-07-07	Ni-T	mg/L	0.000146	0.000049	0.000020	0.000020	99.5%	TRUE
WA	WA-7JUL25-R	2025-07-07	K-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WA	WA-7JUL25-R	2025-07-07	Se-D	mg/L	0.000061	0.000061	0.000040	0.000040		FALSE
WA	WA-7JUL25-R	2025-07-07	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Na-T	mg/L	0.649	0.687	0.050	0.050	5.7%	FALSE
WA	WA-7JUL25-R	2025-07-07	Na-D	mg/L	0.628	0.639	0.050	0.050	1.7%	FALSE
WA	WA-7JUL25-R	2025-07-07	Se-T	mg/L	0.000056	0.000058	0.000040	0.000040		FALSE
WA	WA-7JUL25-R	2025-07-07	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WA	WA-7JUL25-R	2025-07-07	Si-T	mg/L	1.73	1.83	0.050	0.050	5.6%	FALSE
WA	WA-7JUL25-R	2025-07-07	Si-D	mg/L	1.83	1.80	0.050	0.050	1.7%	FALSE
WB	WB-14APR25-R	2025-04-14	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-14APR25-R	2025-04-14	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WB	WB-14APR25-R	2025-04-14	As-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	Ba-D	mg/L	0.00176	0.00177	0.000020	0.000020	0.6%	FALSE
WB	WB-14APR25-R	2025-04-14	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-14APR25-R	2025-04-14	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	Bicarb	mg/L	38	39	1.0	1.0	2.6%	FALSE
WB	WB-14APR25-R	2025-04-14	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-14APR25-R	2025-04-14	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	Ba-T	mg/L	0.0018	0.0017	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	B-D	mg/L	0.032	0.032	0.010	0.010		FALSE
WB	WB-14APR25-R	2025-04-14	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WB	WB-14APR25-R	2025-04-14	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-14APR25-R	2025-04-14	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-14APR25-R	2025-04-14	Ca-T	mg/L	11.2	10.5	0.050	0.050	6.5%	FALSE
WB	WB-14APR25-R	2025-04-14	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	Co-D	mg/L	0.0000138	0.0000128	0.0000050	0.0000050		FALSE
WB	WB-14APR25-R	2025-04-14	Cu-D	mg/L	0.000546	0.000508	0.000050	0.000050	7.2%	FALSE
WB	WB-14APR25-R	2025-04-14	As-D	mg/L	0.000120	0.000117	0.000020	0.000020	2.5%	FALSE
WB	WB-14APR25-R	2025-04-14	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	SG	m	0.55	0.55			0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	DOC	mg/L	2.1	2.2	0.50	0.50		FALSE
WB	WB-14APR25-R	2025-04-14	Hard-D	mg/L	33.1	33.4	0.50	0.50	0.9%	FALSE
WB	WB-14APR25-R	2025-04-14	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	Acidity83	mg/L	1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	Cu-T	mg/L	0.00059	0.00060	0.00050	0.00050		FALSE
WB	WB-14APR25-R	2025-04-14	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WB	WB-14APR25-R	2025-04-14	S-T	mg/L	7.1	6.6	3.0	3.0		FALSE
WB	WB-14APR25-R	2025-04-14	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-14APR25-R	2025-04-14	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	Temp-F	C	10.5	10.5			0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	pH-F	pH Units	7.57	7.57			0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Cond-F	uS/cm	125.5	125.5			0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Alk-T	mg/L	31	32	1.0	1.0	3.2%	FALSE
WB	WB-14APR25-R	2025-04-14	Al-D	mg/L	0.0135	0.0150	0.00050	0.00050	10.5%	FALSE
WB	WB-14APR25-R	2025-04-14	Al-T	mg/L	0.0177	0.0170	0.0030	0.0030	4.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Sb-D	mg/L	<0.000020	0.000022	0.000020	0.000020		FALSE
WB	WB-14APR25-R	2025-04-14	S-D	mg/L	7.2	7.0	3.0	3.0		FALSE
WB	WB-14APR25-R	2025-04-14	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-14APR25-R	2025-04-14	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-14APR25-R	2025-04-14	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WB	WB-14APR25-R	2025-04-14	Na-D	mg/L	8.95	8.91	0.050	0.050	0.4%	FALSE
WB	WB-14APR25-R	2025-04-14	Na-T	mg/L	9.30	8.95	0.050	0.050	3.8%	FALSE
WB	WB-14APR25-R	2025-04-14	Sr-D	mg/L	0.0533	0.0538	0.000050	0.000050	0.9%	FALSE
WB	WB-14APR25-R	2025-04-14	Sr-T	mg/L	0.0521	0.0505	0.0010	0.0010	3.1%	FALSE
WB	WB-14APR25-R	2025-04-14	SO4-D	mg/L	20	20	1.0	1.0	0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WB	WB-14APR25-R	2025-04-14	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-14APR25-R	2025-04-14	Si-T	mg/L	2.07	1.95	0.10	0.10	6.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-14APR25-R	2025-04-14	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-14APR25-R	2025-04-14	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-14APR25-R	2025-04-14	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-14APR25-R	2025-04-14	U-D	mg/L	0.0000056	0.0000077	0.0000020	0.0000020		FALSE
WB	WB-14APR25-R	2025-04-14	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-14APR25-R	2025-04-14	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WB	WB-14APR25-R	2025-04-14	Zn-D	mg/L	0.00119	0.00186	0.00010	0.00010	43.9%	TRUE
WB	WB-14APR25-R	2025-04-14	Ca-D	mg/L	11.0	11.1	0.050	0.050	0.9%	FALSE
WB	WB-14APR25-R	2025-04-14	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-14APR25-R	2025-04-14	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-14APR25-R	2025-04-14	Fe-T	mg/L	0.028	0.027	0.010	0.010		FALSE
WB	WB-14APR25-R	2025-04-14	Si-D	mg/L	2.06	2.04	0.050	0.050	1.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Hard-T	mg/L	33.8	31.8	0.50	0.50	6.1%	FALSE
WB	WB-14APR25-R	2025-04-14	Fe-D	mg/L	0.0163	0.0186	0.0010	0.0010	13.2%	FALSE
WB	WB-14APR25-R	2025-04-14	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-14APR25-R	2025-04-14	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-14APR25-R	2025-04-14	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-14APR25-R	2025-04-14	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WB	WB-14APR25-R	2025-04-14	Mg-D	mg/L	1.37	1.37	0.050	0.050	0.0%	FALSE
WB	WB-14APR25-R	2025-04-14	Mg-T	mg/L	1.40	1.33	0.050	0.050	5.1%	FALSE
WB	WB-14APR25-R	2025-04-14	K-T	mg/L	0.163	0.154	0.050	0.050		FALSE
WB	WB-14APR25-R	2025-04-14	Mn-T	mg/L	0.0041	0.0038	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	Mo-D	mg/L	0.000178	0.000177	0.000050	0.000050		FALSE
WB	WB-14APR25-R	2025-04-14	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-14APR25-R	2025-04-14	Ni-D	mg/L	0.000073	0.000063	0.000020	0.000020		FALSE
WB	WB-14APR25-R	2025-04-14	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-14APR25-R	2025-04-14	K-D	mg/L	0.166	0.165	0.050	0.050		FALSE
WB	WB-14APR25-R	2025-04-14	Se-D	mg/L	0.000051	0.000056	0.000040	0.000040		FALSE
WB	WB-14APR25-R	2025-04-14	Mn-D	mg/L	0.00183	0.00204	0.000050	0.000050	10.9%	FALSE
WB	WB-22APR25-R	2025-04-22	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WB	WB-22APR25-R	2025-04-22	B-D	mg/L	0.028	0.028	0.010	0.010		FALSE
WB	WB-22APR25-R	2025-04-22	B-T	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WB	WB-22APR25-R	2025-04-22	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-22APR25-R	2025-04-22	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-22APR25-R	2025-04-22	Ba-T	mg/L	0.0015	0.0015	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Bicarb	mg/L	37	36	1.0	1.0	2.7%	FALSE
WB	WB-22APR25-R	2025-04-22	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-22APR25-R	2025-04-22	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-22APR25-R	2025-04-22	Co-D	mg/L	0.0000150	0.0000120	0.0000050	0.0000050		FALSE
WB	WB-22APR25-R	2025-04-22	Ca-T	mg/L	8.84	9.15	0.050	0.050	3.4%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WB	WB-22APR25-R	2025-04-22	Cr-D	mg/L	0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Ba-D	mg/L	0.00160	0.00152	0.000020	0.000020	5.1%	FALSE
WB	WB-22APR25-R	2025-04-22	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-22APR25-R	2025-04-22	Cu-D	mg/L	0.000713	0.000555	0.000050	0.000050	24.9%	TRUE
WB	WB-22APR25-R	2025-04-22	Ca-D	mg/L	10.1	10.1	0.050	0.050	0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	SG	m	0.52	0.52			0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Cu-T	mg/L	0.00068	0.00072	0.00050	0.00050		FALSE
WB	WB-22APR25-R	2025-04-22	Temp-F	C	12.7	12.7			0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Hard-D	mg/L	30.1	30.2	0.50	0.50	0.3%	FALSE
WB	WB-22APR25-R	2025-04-22	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	pH-F	pH Units	7.65	7.65			0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	S-T	mg/L	5.3	5.7	3.0	3.0		FALSE
WB	WB-22APR25-R	2025-04-22	As-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	DOC	mg/L	2.0	2.1	0.50	0.50		FALSE
WB	WB-22APR25-R	2025-04-22	Cond-F	uS/cm	108.2	108.2			0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Alk-T	mg/L	31	30	1.0	1.0	3.3%	FALSE
WB	WB-22APR25-R	2025-04-22	Al-D	mg/L	0.0213	0.0139	0.00050	0.00050	42.0%	TRUE
WB	WB-22APR25-R	2025-04-22	Al-T	mg/L	0.0181	0.0168	0.0030	0.0030	7.4%	FALSE
WB	WB-22APR25-R	2025-04-22	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WB	WB-22APR25-R	2025-04-22	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-22APR25-R	2025-04-22	As-D	mg/L	0.000129	0.000124	0.000020	0.000020	4.0%	FALSE
WB	WB-22APR25-R	2025-04-22	S-D	mg/L	4.7	5.4	3.0	3.0		FALSE
WB	WB-22APR25-R	2025-04-22	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-22APR25-R	2025-04-22	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-22APR25-R	2025-04-22	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WB	WB-22APR25-R	2025-04-22	Na-D	mg/L	7.24	7.14	0.050	0.050	1.4%	FALSE
WB	WB-22APR25-R	2025-04-22	Na-T	mg/L	7.25	7.33	0.050	0.050	1.1%	FALSE
WB	WB-22APR25-R	2025-04-22	Sr-D	mg/L	0.0439	0.0440	0.000050	0.000050	0.2%	FALSE
WB	WB-22APR25-R	2025-04-22	Sr-T	mg/L	0.0441	0.0454	0.0010	0.0010	2.9%	FALSE
WB	WB-22APR25-R	2025-04-22	SO4-D	mg/L	16	16	1.0	1.0	0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WB	WB-22APR25-R	2025-04-22	Si-T	mg/L	1.82	1.82	0.10	0.10	0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-22APR25-R	2025-04-22	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-22APR25-R	2025-04-22	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-22APR25-R	2025-04-22	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-22APR25-R	2025-04-22	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	V-D	mg/L	<0.00020	0.00023	0.00020	0.00020		FALSE
WB	WB-22APR25-R	2025-04-22	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-22APR25-R	2025-04-22	Zn-D	mg/L	0.00111	0.00055	0.00010	0.00010	67.5%	TRUE
WB	WB-22APR25-R	2025-04-22	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WB	WB-22APR25-R	2025-04-22	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WB	WB-22APR25-R	2025-04-22	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-22APR25-R	2025-04-22	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020		FALSE
WB	WB-22APR25-R	2025-04-22	Hard-T	mg/L	27.2	27.9	0.50	0.50	2.5%	FALSE
WB	WB-22APR25-R	2025-04-22	U-D	mg/L	0.0000070	0.0000060	0.0000020	0.0000020		FALSE
WB	WB-22APR25-R	2025-04-22	Si-D	mg/L	1.90	1.89	0.050	0.050	0.5%	FALSE
WB	WB-22APR25-R	2025-04-22	Fe-T	mg/L	0.025	0.024	0.010	0.010		FALSE
WB	WB-22APR25-R	2025-04-22	Pb-D	mg/L	0.0000080	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-22APR25-R	2025-04-22	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-22APR25-R	2025-04-22	Fe-D	mg/L	0.0186	0.0185	0.0010	0.0010	0.5%	FALSE
WB	WB-22APR25-R	2025-04-22	Mg-D	mg/L	1.19	1.21	0.050	0.050	1.7%	FALSE
WB	WB-22APR25-R	2025-04-22	Mg-T	mg/L	1.24	1.24	0.050	0.050	0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Mn-D	mg/L	0.00264	0.00271	0.000050	0.000050	2.6%	FALSE
WB	WB-22APR25-R	2025-04-22	pH-L	pH Units	6.94	6.94			0.0%	FALSE
WB	WB-22APR25-R	2025-04-22	Se-D	mg/L	0.000057	0.000042	0.000040	0.000040		FALSE
WB	WB-22APR25-R	2025-04-22	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-22APR25-R	2025-04-22	Mn-T	mg/L	0.0043	0.0043	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-22APR25-R	2025-04-22	K-D	mg/L	0.159	0.148	0.050	0.050		FALSE
WB	WB-22APR25-R	2025-04-22	K-T	mg/L	0.153	0.156	0.050	0.050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WB	WB-22APR25-R	2025-04-22	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Ni-D	mg/L	0.000083	0.000075	0.000020	0.000020		FALSE
WB	WB-22APR25-R	2025-04-22	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WB	WB-22APR25-R	2025-04-22	Mo-D	mg/L	0.000173	0.000166	0.000050	0.000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Zn-T	mg/L	0.00058	0.00028	0.00010	0.00010	69.8%	TRUE
WB	WB-3NOV25-R	2025-11-03	Ba-D	mg/L	0.00179	0.00170	0.000020	0.000020	5.2%	FALSE
WB	WB-3NOV25-R	2025-11-03	Ba-T	mg/L	0.00182	0.00173	0.000020	0.000020	5.1%	FALSE
WB	WB-3NOV25-R	2025-11-03	Be-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-3NOV25-R	2025-11-03	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WB	WB-3NOV25-R	2025-11-03	Zn-D	mg/L	0.00146	0.00136	0.00010	0.00010	7.1%	FALSE
WB	WB-3NOV25-R	2025-11-03	V-T	mg/L	0.00026	0.00026	0.00020	0.00020		FALSE
WB	WB-3NOV25-R	2025-11-03	V-D	mg/L	0.00024	0.00023	0.00020	0.00020		FALSE
WB	WB-3NOV25-R	2025-11-03	U-T	mg/L	0.0000058	0.0000052	0.0000020	0.0000020		FALSE
WB	WB-3NOV25-R	2025-11-03	As-T	mg/L	0.000197	0.000192	0.000020	0.000020	2.6%	FALSE
WB	WB-3NOV25-R	2025-11-03	TSS	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Ti-T	mg/L	0.00067	0.00072	0.00050	0.00050		FALSE
WB	WB-3NOV25-R	2025-11-03	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-3NOV25-R	2025-11-03	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-3NOV25-R	2025-11-03	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WB	WB-3NOV25-R	2025-11-03	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Tl-D	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020		FALSE
WB	WB-3NOV25-R	2025-11-03	SO4-D	mg/L	7.6	7.5	1.0	1.0	1.3%	FALSE
WB	WB-3NOV25-R	2025-11-03	U-D	mg/L	0.0000052	0.0000057	0.0000020	0.0000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WB	WB-3NOV25-R	2025-11-03	SG	m	1	1			0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	DOC	mg/L	3.1	3.2	0.50	0.50	3.2%	FALSE
WB	WB-3NOV25-R	2025-11-03	Hard-D	mg/L	23.3	23.4	0.50	0.50	0.4%	FALSE
WB	WB-3NOV25-R	2025-11-03	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Acidity83	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	S-D	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Zr-T	mg/L	<0.00010	0.00091	0.00010	0.00010	160.4%	TRUE
WB	WB-3NOV25-R	2025-11-03	As-D	mg/L	0.000200	0.000200	0.000020	0.000020	0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Temp-F	C	8.8	8.8			0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	pH-F	pH Units	7.15	7.15			0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Cond-F	uS/cm	63.7	63.7			0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Alk-T	mg/L	21	21	1.0	1.0	0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Al-D	mg/L	0.0240	0.0234	0.00050	0.00050	2.5%	FALSE
WB	WB-3NOV25-R	2025-11-03	Al-T	mg/L	0.0350	0.0352	0.00050	0.00050	0.6%	FALSE
WB	WB-3NOV25-R	2025-11-03	Ni-T	mg/L	0.000079	0.000070	0.000020	0.000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Sb-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Sr-T	mg/L	0.0262	0.0253	0.000050	0.000050	3.5%	FALSE
WB	WB-3NOV25-R	2025-11-03	S-T	mg/L	<3.0	<3.0	3.0	3.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Cr-D	mg/L	0.00015	0.00012	0.00010	0.00010		FALSE
WB	WB-3NOV25-R	2025-11-03	K-D	mg/L	0.133	0.129	0.050	0.050		FALSE
WB	WB-3NOV25-R	2025-11-03	Hard-T	mg/L	23.5	22.7	0.50	0.50	3.5%	FALSE
WB	WB-3NOV25-R	2025-11-03	F-D	mg/L	<0.050	<0.050	0.050	0.050		FALSE
WB	WB-3NOV25-R	2025-11-03	Cu-T	mg/L	0.000560	0.000542	0.000050	0.000050	3.3%	FALSE
WB	WB-3NOV25-R	2025-11-03	Bicarb	mg/L	26	26	1.0	1.0	0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Cu-D	mg/L	0.000563	0.000555	0.000050	0.000050	1.4%	FALSE
WB	WB-3NOV25-R	2025-11-03	Co-T	mg/L	0.0000229	0.0000199	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Fe-T	mg/L	0.0453	0.0467	0.0010	0.0010	3.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Cr-T	mg/L	0.00012	0.00012	0.00010	0.00010		FALSE
WB	WB-3NOV25-R	2025-11-03	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Cl-D	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WB	WB-3NOV25-R	2025-11-03	Ca-T	mg/L	7.64	7.36	0.050	0.050	3.7%	FALSE
WB	WB-3NOV25-R	2025-11-03	Ca-D	mg/L	7.67	7.73	0.050	0.050	0.8%	FALSE
WB	WB-3NOV25-R	2025-11-03	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Br-D	mg/L	<0.010	<0.010	0.010	0.010		FALSE
WB	WB-3NOV25-R	2025-11-03	B-D	mg/L	0.017	0.017	0.010	0.010		FALSE
WB	WB-3NOV25-R	2025-11-03	B-T	mg/L	0.016	0.016	0.010	0.010		FALSE
WB	WB-3NOV25-R	2025-11-03	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Co-D	mg/L	0.0000167	0.0000164	0.0000050	0.0000050		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WB	WB-3NOV25-R	2025-11-03	Ni-D	mg/L	0.000075	0.000061	0.000020	0.000020		FALSE
WB	WB-3NOV25-R	2025-11-03	Na-T	mg/L	2.96	2.88	0.050	0.050	2.7%	FALSE
WB	WB-3NOV25-R	2025-11-03	Na-D	mg/L	2.75	2.73	0.050	0.050	0.7%	FALSE
WB	WB-3NOV25-R	2025-11-03	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Si-T	mg/L	2.49	2.48	0.050	0.050	0.4%	FALSE
WB	WB-3NOV25-R	2025-11-03	Si-D	mg/L	2.57	2.60	0.050	0.050	1.2%	FALSE
WB	WB-3NOV25-R	2025-11-03	Se-T	mg/L	0.000051	0.000048	0.000040	0.000040		FALSE
WB	WB-3NOV25-R	2025-11-03	Se-D	mg/L	0.000043	0.000043	0.000040	0.000040		FALSE
WB	WB-3NOV25-R	2025-11-03	Fe-D	mg/L	0.0290	0.0268	0.0010	0.0010	7.9%	FALSE
WB	WB-3NOV25-R	2025-11-03	pH-L	pH Units	6.63	6.61			0.3%	FALSE
WB	WB-3NOV25-R	2025-11-03	Sr-D	mg/L	0.0267	0.0261	0.000050	0.000050	2.3%	FALSE
WB	WB-3NOV25-R	2025-11-03	Mo-T	mg/L	0.000181	0.000170	0.000050	0.000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Mo-D	mg/L	0.000243	0.000201	0.000050	0.000050		FALSE
WB	WB-3NOV25-R	2025-11-03	Mn-T	mg/L	0.00592	0.00586	0.000050	0.000050	1.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Mn-D	mg/L	0.00345	0.00326	0.000050	0.000050	5.7%	FALSE
WB	WB-3NOV25-R	2025-11-03	Mg-T	mg/L	1.08	1.05	0.050	0.050	2.8%	FALSE
WB	WB-3NOV25-R	2025-11-03	Mg-D	mg/L	1.01	1.01	0.050	0.050	0.0%	FALSE
WB	WB-3NOV25-R	2025-11-03	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-3NOV25-R	2025-11-03	Li-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WB	WB-3NOV25-R	2025-11-03	Pb-T	mg/L	0.0000057	<0.0000050	0.0000050	0.0000050		FALSE
WB	WB-3NOV25-R	2025-11-03	K-T	mg/L	0.134	0.130	0.050	0.050		FALSE
WC	WC-1APR25-R	2025-04-01	pH-F	pH Units	8.3	8.3			0.0%	FALSE
WC	WC-1APR25-R	2025-04-01	SO4-D	mg/L	400	390	5.0	5.0	2.5%	FALSE
WC	WC-1APR25-R	2025-04-01	TSS	mg/L	1.6	1.2	1.0	1.0		FALSE
WC	WC-1APR25-R	2025-04-01	Temp-F	C	8.9	8.9			0.0%	FALSE
WC	WC-1APR25-R	2025-04-01	Cond-F	uS/cm	1455	1455			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	Cond-F	uS/cm	507	507			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	TSS	mg/L	<1.0	<1.0	1	1		FALSE
WC	WC-2FEB26-R	2026-02-02	SO4-D	mg/L	140	150	5	5	6.9%	FALSE
WC	WC-2FEB26-R	2026-02-02	Temp-F	C	8.2	8.2			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	pH-F	pH Units	7.81	7.81			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	Temp-F	C	8.2	8.2			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	TSS	mg/L	<1.0	<1.0	1	1		FALSE
WC	WC-2FEB26-R	2026-02-02	SO4-D	mg/L	140	140	5	5	0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	Cond-F	uS/cm	507	507			0.0%	FALSE
WC	WC-2FEB26-R	2026-02-02	pH-F	pH Units	7.81	7.81			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ca-T	mg/L	180	178	0.050	0.050	1.1%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ca-D	mg/L	178	179	0.050	0.050	0.6%	FALSE
WC	WC-2JUL25-R	2025-07-02	Cd-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WC	WC-2JUL25-R	2025-07-02	Br-D	mg/L	0.020	<0.10	0.010	0.10		FALSE
WC	WC-2JUL25-R	2025-07-02	Cl-D	mg/L	7.7	7.6	1.0	1.0	1.3%	FALSE
WC	WC-2JUL25-R	2025-07-02	B-D	mg/L	0.834	0.818	0.050	0.050	1.9%	FALSE
WC	WC-2JUL25-R	2025-07-02	B-T	mg/L	0.775	0.753	0.050	0.050	2.9%	FALSE
WC	WC-2JUL25-R	2025-07-02	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WC	WC-2JUL25-R	2025-07-02	Cr-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	Co-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WC	WC-2JUL25-R	2025-07-02	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WC	WC-2JUL25-R	2025-07-02	Cu-D	mg/L	0.00023	0.00022	0.00020	0.00020		FALSE
WC	WC-2JUL25-R	2025-07-02	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WC	WC-2JUL25-R	2025-07-02	F-D	mg/L	0.055	0.055	0.050	0.050		FALSE
WC	WC-2JUL25-R	2025-07-02	Hard-T	mg/L	547	543	0.50	0.50	0.7%	FALSE
WC	WC-2JUL25-R	2025-07-02	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WC	WC-2JUL25-R	2025-07-02	Li-D	mg/L	0.0129	0.0129	0.0020	0.0020	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Li-T	mg/L	0.0126	0.0125	0.0020	0.0020	0.8%	FALSE
WC	WC-2JUL25-R	2025-07-02	Mg-D	mg/L	24.8	25.7	0.050	0.050	3.6%	FALSE
WC	WC-2JUL25-R	2025-07-02	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	Acidity83	mg/L	1.1	1.0	1.0	1.0		FALSE
WC	WC-2JUL25-R	2025-07-02	Fe-T	mg/L	0.086	0.086	0.010	0.010	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Cond-F	uS/cm	2866.4	2866.4			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Turb-F	NTU	-0.05	-0.05				FALSE
WC	WC-2JUL25-R	2025-07-02	ORP-F	mV	112.5	112.5			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	DOC	mg/L	1.9	1.9	0.50	0.50		FALSE
WC	WC-2JUL25-R	2025-07-02	Hard-D	mg/L	546	552	0.50	0.50	1.1%	FALSE
WC	WC-2JUL25-R	2025-07-02	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WC	WC-2JUL25-R	2025-07-02	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WC	WC-2JUL25-R	2025-07-02	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WC	WC-2JUL25-R	2025-07-02	Pb-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WC	WC-2JUL25-R	2025-07-02	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WC	WC-2JUL25-R	2025-07-02	Mg-T	mg/L	23.7	23.8	0.050	0.050	0.4%	FALSE
WC	WC-2JUL25-R	2025-07-02	S-T	mg/L	266	272	3.0	3.0	2.2%	FALSE
WC	WC-2JUL25-R	2025-07-02	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	S-D	mg/L	298	298	3.0	3.0	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WC	WC-2JUL25-R	2025-07-02	Bicarb	mg/L	340	340	1.0	1.0	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Be-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Ba-T	mg/L	0.0249	0.0245	0.0010	0.0010	1.6%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ba-D	mg/L	0.0267	0.0265	0.0010	0.0010	0.8%	FALSE
WC	WC-2JUL25-R	2025-07-02	Temp-F	C	20.63	20.63			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	As-D	mg/L	0.00041	0.00038	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	pH-F	pH Units	7.97	7.97			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Sb-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WC	WC-2JUL25-R	2025-07-02	Al-T	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
WC	WC-2JUL25-R	2025-07-02	Al-D	mg/L	<0.0030	<0.0030	0.0030	0.0030		FALSE
WC	WC-2JUL25-R	2025-07-02	Alk-T	mg/L	280	280	1.0	1.0	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	DO-F	mg/L	8.62	8.62			0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Bi-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	As-T	mg/L	0.00036	0.00036	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	U-T	mg/L	0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Sr-T	mg/L	1.84	1.80	0.0010	0.0010	2.2%	FALSE
WC	WC-2JUL25-R	2025-07-02	SO4-D	mg/L	770	800	10	10	3.8%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ti-D	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WC	WC-2JUL25-R	2025-07-02	Ti-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WC	WC-2JUL25-R	2025-07-02	Sn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	Sr-D	mg/L	2.08	2.07	0.0010	0.0010	0.5%	FALSE
WC	WC-2JUL25-R	2025-07-02	TSS	mg/L	<1.0	1.2	1.0	1.0		FALSE
WC	WC-2JUL25-R	2025-07-02	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	V-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	Zn-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	Fe-D	mg/L	0.0384	0.0345	0.0050	0.0050	10.7%	FALSE
WC	WC-2JUL25-R	2025-07-02	Mn-D	mg/L	0.0163	0.0165	0.0010	0.0010	1.2%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ti-D	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WC	WC-2JUL25-R	2025-07-02	K-D	mg/L	4.73	4.69	0.050	0.050	0.8%	FALSE
WC	WC-2JUL25-R	2025-07-02	Mo-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	U-D	mg/L	0.00010	0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Na-T	mg/L	243	240	0.050	0.050	1.2%	FALSE
WC	WC-2JUL25-R	2025-07-02	Mn-T	mg/L	0.0157	0.0158	0.0010	0.0010	0.6%	FALSE
WC	WC-2JUL25-R	2025-07-02	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	Ni-D	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	pH-L	pH Units	8.21	8.16			0.6%	FALSE
WC	WC-2JUL25-R	2025-07-02	K-T	mg/L	4.40	4.32	0.050	0.050	1.8%	FALSE
WC	WC-2JUL25-R	2025-07-02	Si-T	mg/L	2.79	2.79	0.10	0.10	0.0%	FALSE
WC	WC-2JUL25-R	2025-07-02	Na-D	mg/L	252	258	0.050	0.050	2.4%	FALSE
WC	WC-2JUL25-R	2025-07-02	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WC	WC-2JUL25-R	2025-07-02	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WC	WC-2JUL25-R	2025-07-02	Ag-D	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WC	WC-2JUL25-R	2025-07-02	Si-D	mg/L	2.85	2.84	0.10	0.10	0.4%	FALSE
WC	WC-2JUL25-R	2025-07-02	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-2JUL25-R	2025-07-02	Se-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WC	WC-5JAN26-R	2026-01-05	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
WC	WC-5JAN26-R	2026-01-05	Bi-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	B-T	mg/L	0.729	0.729	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	B-D	mg/L	0.72	0.72	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Cd-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
WC	WC-5JAN26-R	2026-01-05	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Ca-D	mg/L	110	110	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Ca-T	mg/L	101	101	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Cr-D	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001		FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WC	WC-5JAN26-R	2026-01-05	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
WC	WC-5JAN26-R	2026-01-05	Cu-D	mg/L	0.00021	0.00021	0.0002	0.0002		FALSE
WC	WC-5JAN26-R	2026-01-05	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
WC	WC-5JAN26-R	2026-01-05	Hard-T	mg/L	294	294	0.5	0.5	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Fe-D	mg/L	0.0102	0.0102	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Co-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
WC	WC-5JAN26-R	2026-01-05	Al-D	mg/L	0.0093	0.0093	0.003	0.003		FALSE
WC	WC-5JAN26-R	2026-01-05	Na-T	mg/L	206	206	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Hard-D	mg/L	320	320	0.5	0.5	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Fe-T	mg/L	0.102	0.102	0.01	0.01	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	S-T	mg/L	130	130	3	3	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Zr-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Temp-F	C	5.5	5.5			0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	S-D	mg/L	142	142	3	3	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Cond-F	uS/cm	1567	1567			0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Be-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Al-T	mg/L	0.0134	0.0134	0.003	0.003		FALSE
WC	WC-5JAN26-R	2026-01-05	Sb-D	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
WC	WC-5JAN26-R	2026-01-05	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005		FALSE
WC	WC-5JAN26-R	2026-01-05	As-D	mg/L	0.00048	0.00048	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	As-T	mg/L	0.00054	0.00054	0.0001	0.0001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Ba-D	mg/L	0.0147	0.0147	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Ba-T	mg/L	0.0136	0.0136	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	pH-F	pH Units	8.17	8.17			0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Ti-T	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Sr-D	mg/L	1.15	1.15	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Sr-T	mg/L	1.04	1.04	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	SO4-D	mg/L	380	380	5	5	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Tl-D	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
WC	WC-5JAN26-R	2026-01-05	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001		FALSE
WC	WC-5JAN26-R	2026-01-05	Sn-D	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
WC	WC-5JAN26-R	2026-01-05	Ti-D	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Si-T	mg/L	3.42	3.42	0.1	0.1	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	TSS	mg/L	<1.0	<1.0	1	1		FALSE
WC	WC-5JAN26-R	2026-01-05	U-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	V-D	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	V-T	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Zn-D	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Zn-T	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Sn-T	mg/L	<0.00050	<0.00050	0.005	0.005		FALSE
WC	WC-5JAN26-R	2026-01-05	Ni-D	mg/L	<0.00010	<0.00010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
WC	WC-5JAN26-R	2026-01-05	Li-D	mg/L	0.0085	0.0085	0.002	0.002		FALSE
WC	WC-5JAN26-R	2026-01-05	Li-T	mg/L	0.0097	0.0097	0.002	0.002		FALSE
WC	WC-5JAN26-R	2026-01-05	Mg-D	mg/L	11	11	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Mg-T	mg/L	10.5	10.5	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Mn-D	mg/L	0.0253	0.0253	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Mn-T	mg/L	0.0249	0.0249	0.001	0.001	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Na-D	mg/L	218	218	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Mo-T	mg/L	<0.00010	<0.00010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	Ag-D	mg/L	<0.000020	<0.000020	0.00002	0.00002		FALSE
WC	WC-5JAN26-R	2026-01-05	Ni-T	mg/L	<0.00010	<0.00010	0.001	0.001		FALSE
WC	WC-5JAN26-R	2026-01-05	K-D	mg/L	3.16	3.16	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	K-T	mg/L	2.92	2.92	0.05	0.05	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Se-D	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001		FALSE
WC	WC-5JAN26-R	2026-01-05	Si-D	mg/L	3.64	3.64	0.1	0.1	0.0%	FALSE
WC	WC-5JAN26-R	2026-01-05	Pb-D	mg/L	<0.00020	<0.00020	0.0002	0.0002		FALSE
WC	WC-5JAN26-R	2026-01-05	Mo-D	mg/L	<0.00010	<0.00010	0.001	0.001		FALSE
WD	WD-5MAY25-R	2025-05-05	Se-D	mg/L	<0.000040	<0.000040	0.000040	0.000040		FALSE
WD	WD-5MAY25-R	2025-05-05	Mo-D	mg/L	0.000304	0.000350	0.000050	0.000050	14.1%	FALSE
WD	WD-5MAY25-R	2025-05-05	Fe-T	mg/L	0.094	0.117	0.010	0.010	21.8%	TRUE
WD	WD-5MAY25-R	2025-05-05	K-T	mg/L	2.98	2.78	0.050	0.050	6.9%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ni-T	mg/L	<0.00010	<0.00010	0.0010	0.0010		FALSE
WD	WD-5MAY25-R	2025-05-05	Ni-D	mg/L	0.000284	0.000315	0.000020	0.000020	10.4%	FALSE

Appendix 1 - Tables

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WD	WD-5MAY25-R	2025-05-05	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WD	WD-5MAY25-R	2025-05-05	K-D	mg/L	2.99	3.09	0.050	0.050	3.3%	FALSE
WD	WD-5MAY25-R	2025-05-05	Mn-T	mg/L	0.0305	0.0319	0.0010	0.0010	4.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Mn-D	mg/L	0.0123	0.0120	0.000050	0.000050	2.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Mg-T	mg/L	15.4	14.5	0.050	0.050	6.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Mg-D	mg/L	13.8	14.2	0.050	0.050	2.9%	FALSE
WD	WD-5MAY25-R	2025-05-05	Li-T	mg/L	0.0122	0.0119	0.0020	0.0020	2.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Li-D	mg/L	0.0128	0.0135	0.00050	0.00050	5.3%	FALSE
WD	WD-5MAY25-R	2025-05-05	Pb-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WD	WD-5MAY25-R	2025-05-05	Fe-D	mg/L	0.0308	0.0205	0.0010	0.0010	40.2%	TRUE
WD	WD-5MAY25-R	2025-05-05	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WD	WD-5MAY25-R	2025-05-05	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WD	WD-5MAY25-R	2025-05-05	Zn-D	mg/L	0.00057	0.00114	0.00010	0.00010	66.7%	TRUE
WD	WD-5MAY25-R	2025-05-05	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WD	WD-5MAY25-R	2025-05-05	V-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WD	WD-5MAY25-R	2025-05-05	Hard-D	mg/L	289	303	0.50	0.50	4.7%	FALSE
WD	WD-5MAY25-R	2025-05-05	U-D	mg/L	0.0000490	0.0000500	0.0000020	0.0000020	2.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Hard-T	mg/L	289	279	0.50	0.50	3.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WD	WD-5MAY25-R	2025-05-05	Ti-D	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WD	WD-5MAY25-R	2025-05-05	TSS	mg/L	1.2	2.4	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Sn-D	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WD	WD-5MAY25-R	2025-05-05	Si-D	mg/L	1.42	1.52	0.050	0.050	6.8%	FALSE
WD	WD-5MAY25-R	2025-05-05	TI-D	mg/L	0.0000020	0.0000020	0.0000020	0.0000020		FALSE
WD	WD-5MAY25-R	2025-05-05	SO4-D	mg/L	500	500	5.0	5.0	0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Sr-T	mg/L	1.16	1.12	0.0010	0.0010	3.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Sr-D	mg/L	1.04	1.06	0.000050	0.000050	1.9%	FALSE
WD	WD-5MAY25-R	2025-05-05	Na-T	mg/L	262	254	0.050	0.050	3.1%	FALSE
WD	WD-5MAY25-R	2025-05-05	Na-D	mg/L	257	261	0.050	0.050	1.5%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020		FALSE
WD	WD-5MAY25-R	2025-05-05	Ag-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WD	WD-5MAY25-R	2025-05-05	Si-T	mg/L	1.33	1.26	0.10	0.10	5.4%	FALSE
WD	WD-5MAY25-R	2025-05-05	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WD	WD-5MAY25-R	2025-05-05	Al-T	mg/L	0.0042	0.0085	0.0030	0.0030		FALSE
WD	WD-5MAY25-R	2025-05-05	S-T	mg/L	192	178	3.0	3.0	7.6%	FALSE
WD	WD-5MAY25-R	2025-05-05	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	Zr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	Temp-F	C	20.3	20.3			0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Wlevel	m	0.004	0.004			0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	pH-F	pH Units	7.94	7.94			0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Cond-F	uS/cm	1646	1646			0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050		FALSE
WD	WD-5MAY25-R	2025-05-05	Al-D	mg/L	0.00188	0.00141	0.00050	0.00050		FALSE
WD	WD-5MAY25-R	2025-05-05	Acidity83	mg/L	<1.0	1.1	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Sb-D	mg/L	0.000023	0.000027	0.000020	0.000020		FALSE
WD	WD-5MAY25-R	2025-05-05	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WD	WD-5MAY25-R	2025-05-05	As-D	mg/L	0.00107	0.00109	0.000020	0.000020	1.9%	FALSE
WD	WD-5MAY25-R	2025-05-05	As-T	mg/L	0.00113	0.00112	0.00010	0.00010	0.9%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ba-D	mg/L	0.0184	0.0188	0.000020	0.000020	2.2%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ba-T	mg/L	0.0191	0.0175	0.0010	0.0010	8.7%	FALSE
WD	WD-5MAY25-R	2025-05-05	Be-D	mg/L	<0.000010	0.000010	0.000010	0.000010		FALSE
WD	WD-5MAY25-R	2025-05-05	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	Alk-T	mg/L	340	330	1.0	1.0	3.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	B-T	mg/L	0.686	0.646	0.050	0.050	6.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Cu-D	mg/L	0.000385	0.000370	0.000050	0.000050	4.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020		FALSE
WD	WD-5MAY25-R	2025-05-05	Co-D	mg/L	0.0000310	0.0000310	0.0000050	0.0000050	0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE
WD	WD-5MAY25-R	2025-05-05	Cr-D	mg/L	<0.00010	<0.00010	0.00010	0.00010		FALSE
WD	WD-5MAY25-R	2025-05-05	Ca-T	mg/L	90.4	88.1	0.050	0.050	2.6%	FALSE
WD	WD-5MAY25-R	2025-05-05	Ca-D	mg/L	92.9	97.9	0.050	0.050	5.2%	FALSE
WD	WD-5MAY25-R	2025-05-05	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010		FALSE
WD	WD-5MAY25-R	2025-05-05	S-D	mg/L	182	190	3.0	3.0	4.3%	FALSE
WD	WD-5MAY25-R	2025-05-05	B-D	mg/L	0.741	0.762	0.010	0.010	2.8%	FALSE
WD	WD-5MAY25-R	2025-05-05	Acidity45	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010		FALSE

Table 54 Relative Percent Difference 49 Page(s)

Stn.Code	Sample number	Date	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
WD	WD-5MAY25-R	2025-05-05	Bi-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE
WD	WD-5MAY25-R	2025-05-05	Bicarb	mg/L	410	410	1.0	1.0	0.0%	FALSE
WD	WD-5MAY25-R	2025-05-05	DOC	mg/L	2.7	2.4	0.50	0.50	11.8%	FALSE
WD	WD-5MAY25-R	2025-05-05	Hydrox	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Carb	mg/L	<1.0	<1.0	1.0	1.0		FALSE
WD	WD-5MAY25-R	2025-05-05	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050		FALSE
WD	WD-5MAY25-R	2025-05-05	Cd-D	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050		FALSE

Appendix 1 - Tables

Table 55 RPD Greater Than 20% 3 Page(s)

True RPDs >20%									
127 paired parameter results were flagged; 38 of 134 parameters exceeded 20% RPD (28.4%). RPD range: 20.1%–191.8%.									
Stn1	Date2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
242MW	2025-08-13	Cl-D	mg/L	48	<1.0	1	1	192%	TRUE
242MW	2025-08-13	SO4-D	mg/L	<1.0	25	1	1	185%	TRUE
2S	2025-09-02	Mn-T	mg/L	0.0279	0.0368	0.001	0.001	28%	TRUE
2S	2025-09-02	Fe-T	mg/L	0.035	0.065	0.01	0.01	60%	TRUE
2SI	2025-06-09	H2S	mg/L	0.012	0.016	0.002	0.002	29%	TRUE
2SI	2025-06-09	S2-T	mg/L	0.012	0.015	0.0018	0.0018	22%	TRUE
IRQR	2025-05-12	Zn-D	mg/L	0.00146	0.00072	0.0001	0.0001	68%	TRUE
LLM1	2025-08-06	U-D	mg/L	0.0000084	0.0000103	0.000002	0.000002	20%	TRUE
LLM1	2025-08-06	Zn-D	mg/L	0.00102	0.00083	0.0001	0.0001	21%	TRUE
LLM1	2025-08-06	Ni-D	mg/L	0.000066	0.000102	0.00002	0.00002	43%	TRUE
LLM1	2025-11-06	Ni-D	mg/L	0.000109	0.000088	0.00002	0.00002	21%	TRUE
LLM1	2025-10-07	Zn-T	mg/L	0.00053	0.00043	0.0001	0.0001	21%	TRUE
LLM1	2025-10-07	Zn-D	mg/L	0.0007	0.00121	0.0001	0.0001	53%	TRUE
LLM1	2025-10-07	N-TKN	mg/L	0.16	0.094	0.02	0.02	52%	TRUE
LLM1	2025-10-07	Alk-T	mg/L	47	34	1	1	32%	TRUE
LLM1	2025-10-07	Cu-T	mg/L	0.000391	0.000561	0.00005	0.00005	36%	TRUE
LLM1	2025-10-07	Bicarb	mg/L	57	41	1	1	33%	TRUE
LLM1	2025-07-09	Mn-D	mg/L	0.00252	0.00362	0.00005	0.00005	36%	TRUE
LLM1	2025-07-09	Pb-T	mg/L	0.0000109	0.0000503	0.000005	0.000005	129%	TRUE
LLM1	2025-07-09	Al-D	mg/L	0.0108	0.0142	0.0005	0.0005	27%	TRUE
LLM1	2025-07-09	Zn-T	mg/L	0.00045	0.00062	0.0001	0.0001	32%	TRUE
LLM4	2025-10-15	N-TKN	mg/L	0.15	0.2	0.02	0.02	29%	TRUE
LLM4	2025-10-15	N-T	mg/L	0.149	0.202	0.02	0.02	30%	TRUE
LLM4	2025-10-15	Turb	NTU	0.6	0.49	0.1	0.1	20%	TRUE
LLM4	2025-10-15	Zn-D	mg/L	0.00094	0.00045	0.0001	0.0001	71%	TRUE
LLM4	2025-10-15	Zn-T	mg/L	0.00094	0.00054	0.0001	0.0001	54%	TRUE
LLM4	2025-04-16	Al-T	mg/L	0.0323	0.0522	0.003	0.003	47%	TRUE
LLM4	2025-04-16	Fe-T	mg/L	0.051	0.099	0.01	0.01	64%	TRUE
LLM4	2025-04-16	Zn-D	mg/L	0.00173	0.00108	0.0001	0.0001	46%	TRUE
LLM4	2025-07-16	N-NO23	mg/L	<0.020	0.277	0.02	0.02	173%	TRUE
LLM4	2025-07-16	Zn-D	mg/L	0.0042	0.00086	0.0001	0.0001	132%	TRUE
LLM4	2025-10-29	Zn-T	mg/L	0.00078	0.00044	0.0001	0.0001	56%	TRUE
LLM4	2025-10-29	Turb	NTU	0.74	0.98	0.1	0.1	28%	TRUE
LLO	2025-10-27	Zn-D	mg/L	0.00105	0.00067	0.0001	0.0001	44%	TRUE
LLO	2025-04-02	Fe-T	mg/L	0.053	0.072	0.01	0.01	30%	TRUE
LLO	2025-04-02	Zn-D	mg/L	0.00176	0.00033	0.0001	0.0001	137%	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

RPD > 20 % and Ratio of Results is outside the range of 0 to 22.

Appendix 1 - Tables

Table 55 RPD Greater Than 20% 3 Page(s)

True RPDs >20%									
127 paired parameter results were flagged; 38 of 134 parameters exceeded 20% RPD (28.4%). RPD range: 20.1%–191.8%.									
Stn1	Date2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
LQL1	2025-04-24	Zn-D	mg/L	0.0026	0.0329	0.0001	0.0001	171%	TRUE
LQL1	2025-04-29	Al-T	mg/L	0.0363	0.0292	0.003	0.003	22%	TRUE
LQL1	2025-04-29	Acidity83	mg/L	1.3	14.3	1	1	167%	TRUE
LQL1	2025-11-04	N-TKN	mg/L	0.16	0.1	0.02	0.02	46%	TRUE
LQL1	2025-11-04	Ti-T	mg/L	0.00323	0.00183	0.0005	0.0005	55%	TRUE
LQL1	2025-11-04	N-T	mg/L	0.164	0.103	0.02	0.02	46%	TRUE
LQL1	2025-11-04	Zn-D	mg/L	0.00252	0.00074	0.0001	0.0001	109%	TRUE
LQL1	2025-10-08	Zn-T	mg/L	0.00102	0.00052	0.0001	0.0001	65%	TRUE
LQL1	2025-10-08	Zn-D	mg/L	0.00058	0.00153	0.0001	0.0001	90%	TRUE
MQL1	2025-10-21	Zn-T	mg/L	0.00124	0.00064	0.0001	0.0001	64%	TRUE
MQL1	2025-10-21	Turb	NTU	0.29	0.52	0.1	0.1	57%	TRUE
MQL1	2025-10-21	N-T	mg/L	0.125	0.235	0.02	0.02	61%	TRUE
MQL1	2025-10-21	N-TKN	mg/L	0.12	0.24	0.02	0.02	67%	TRUE
MQL1	2025-04-23	Mo-D	mg/L	0.000218	0.000867	0.00005	0.00005	120%	TRUE
MQL1	2025-04-23	Zn-D	mg/L	0.00164	0.00438	0.0001	0.0001	91%	TRUE
MQL4	2025-04-30	Zn-D	mg/L	0.00107	0.00151	0.0001	0.0001	34%	TRUE
MQL4	2025-04-30	U-D	mg/L	0.000008	0.000014	0.000002	0.000002	55%	TRUE
MQL4	2025-04-30	Co-D	mg/L	0.000014	0.000031	0.000005	0.000005	76%	TRUE
MQL4	2025-04-30	Ni-D	mg/L	0.00009	0.000122	0.00002	0.00002	30%	TRUE
MQL4	2025-04-30	Cu-D	mg/L	0.000553	0.00111	0.00005	0.00005	67%	TRUE
MQL4	2025-04-30	Fe-D	mg/L	0.0176	0.0324	0.001	0.001	59%	TRUE
MQL4	2025-04-30	As-D	mg/L	0.000109	0.000143	0.00002	0.00002	27%	TRUE
MQL4	2025-04-30	Al-D	mg/L	0.0119	0.0183	0.0005	0.0005	42%	TRUE
MQL9	2025-10-16	Turb	NTU	0.6	0.86	0.1	0.1	36%	TRUE
MQL9	2025-10-16	Zn-D	mg/L	0.00134	0.00098	0.0001	0.0001	31%	TRUE
MQL9	2025-10-30	Turb	NTU	0.47	0.96	0.1	0.1	69%	TRUE
MW002	2026-01-14	Acidity83	mg/L	<1.0	5.1	1	1	134%	TRUE
NNO	2025-07-14	Mo-D	mg/L	0.000202	0.00051	0.00005	0.00005	87%	TRUE
NNO	2025-07-14	Zn-D	mg/L	0.00061	0.00173	0.0001	0.0001	96%	TRUE
NNO	2025-10-14	Zn-D	mg/L	0.00024	0.00079	0.0001	0.0001	107%	TRUE
NNO	2025-10-14	Ni-T	mg/L	0.000059	0.000132	0.00002	0.00002	76%	TRUE
QRDS1	2025-10-20	Zn-D	mg/L	0.00093	0.00115	0.0001	0.0001	21%	TRUE
QRDS1	2025-10-20	Al-T	mg/L	0.00596	0.00738	0.0005	0.0005	21%	TRUE
QRDS1	2025-07-21	Zn-D	mg/L	0.00134	0.00067	0.0001	0.0001	67%	TRUE
QRDS1	2025-04-30	Zn-D	mg/L	0.00096	0.00205	0.0001	0.0001	72%	TRUE
QRDS1	2025-04-30	Mo-D	mg/L	0.000295	0.000454	0.00005	0.00005	42%	TRUE
QU1009S	2025-08-12	Turb	NTU	29	37	0.1	0.1	24%	TRUE
QU1013D	2025-08-20	H2S	mg/L	0.037	0.0029	0.002	0.002	171%	TRUE
QU1013D	2025-08-20	S2-T	mg/L	0.035	0.0027	0.0018	0.0018	171%	TRUE
QU1013D	2025-05-21	Zn-D	mg/L	0.00101	0.00158	0.0002	0.0002	44%	TRUE
QU1013D	2025-10-23	Turb	NTU	16	11	0.1	0.1	37%	TRUE
QU1013D	2025-10-23	S2-T	mg/L	0.024	0.033	0.0018	0.0018	32%	TRUE
QU1013D	2025-10-23	H2S	mg/L	0.026	0.035	0.002	0.002	30%	TRUE
QU1105D	2026-01-15	Bicarb	mg/L	560	370	1	1	41%	TRUE
QU1105D	2026-01-15	F-D	mg/L	0.3	<0.050	0.05	0.05	143%	TRUE
QU1105D	2026-01-15	Alk-T	mg/L	460	300	1	1	42%	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

RPD > 20 % and Ratio of Results is outside the range of 0 to 22.

Appendix 1 - Tables

Table 55 RPD Greater Than 20% 3 Page(s)

True RPDs >20%									
127 paired parameter results were flagged; 38 of 134 parameters exceeded 20% RPD (28.4%). RPD range: 20.1%–191.8%.									
Stn1	Date2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	RPD %	True RPD >20%
QU1105D	2026-01-15	SO4-D	mg/L	420	280	5	5	40%	TRUE
QU1105D	2025-10-09	SO4-D	mg/L	220	300	5	5	31%	TRUE
QU1105D	2025-10-09	Se-D	mg/L	0.0302	0.0374	0.0005	0.0005	21%	TRUE
QU1105D	2025-10-09	Turb	NTU	120	76	0.1	0.1	45%	TRUE
QU1105S	2025-07-30	Carb	mg/L	<1.0	9.9	1	1	163%	TRUE
QU1105S	2025-07-30	Alk-PP	mg/L	<1.0	8.3	1	1	157%	TRUE
RBP1	2025-12-14	Acidity83	mg/L	14.8	7	1	1	72%	TRUE
RBP1	2025-12-23	TSS	mg/L	6.4	12	1	1	61%	TRUE
RBP1	2025-12-05	Cu-D	mg/L	0.00111	<0.00020	0.0002	0.0002	139%	TRUE
RBPO	2026-01-03	Fe-D	mg/L	0.171	0.139	0.01	0.01	21%	TRUE
S2A	2025-08-07	TSS	mg/L	3.2	5.2	1	1	48%	TRUE
SP1	2026-01-07	Al-T	mg/L	0.0151	0.0059	0.003	0.003	88%	TRUE
SP2	2026-03-09	SG	m	1.18	1.66			34%	TRUE
SP3C	2025-12-16	Al-T	mg/L	0.0518	0.0674	0.006	0.006	26%	TRUE
SP3S	2025-12-19	Cu-T	mg/L	0.0053	0.0016	0.001	0.001	107%	TRUE
SPC	2025-12-01	Al-T	mg/L	0.0606	0.047	0.003	0.003	25%	TRUE
SPCEFF	2025-09-22	S2-T	mg/L	4.4	5.4	0.09	0.09	20%	TRUE
WA	2025-08-27	Turb	NTU	0.19	0.6	0.1	0.1	104%	TRUE
WA	2025-07-03	Ba-T	mg/L	0.000591	0.000737	0.00005	0.00005	22%	TRUE
WA	2025-07-03	As-D	mg/L	0.0001	0.000134	0.00002	0.00002	29%	TRUE
WA	2025-07-03	Ba-D	mg/L	0.000659	0.000918	0.00002	0.00002	33%	TRUE
WA	2025-07-03	Al-D	mg/L	0.0139	0.0342	0.0005	0.0005	84%	TRUE
WA	2025-07-03	Al-T	mg/L	0.0173	0.0253	0.003	0.003	38%	TRUE
WA	2025-07-03	Mn-D	mg/L	0.00138	0.00252	0.00005	0.00005	58%	TRUE
WA	2025-07-03	Fe-D	mg/L	0.012	0.0304	0.001	0.001	87%	TRUE
WA	2025-07-03	Fe-T	mg/L	0.02	0.0385	0.005	0.005	63%	TRUE
WA	2025-07-03	Mn-T	mg/L	0.00195	0.00319	0.0001	0.0001	48%	TRUE
WA	2025-10-06	Mn-T	mg/L	0.00121	0.00148	0.00005	0.00005	20%	TRUE
WA	2025-10-06	Mo-D	mg/L	0.000189	0.000262	0.00005	0.00005	32%	TRUE
WA	2025-10-06	Zn-D	mg/L	0.00076	0.00335	0.0001	0.0001	126%	TRUE
WA	2025-04-07	TSS	mg/L	<1.0	5.2	1	1	135%	TRUE
WA	2025-04-07	Al-T	mg/L	0.0422	0.0554	0.003	0.003	27%	TRUE
WA	2025-07-07	Fe-T	mg/L	0.0246	0.0171	0.001	0.001	36%	TRUE
WA	2025-07-07	Mn-T	mg/L	0.00272	0.00193	0.00005	0.00005	34%	TRUE
WA	2025-07-07	Zn-D	mg/L	0.0011	0.00256	0.0001	0.0001	80%	TRUE
WA	2025-07-07	Ni-T	mg/L	0.000146	0.000049	0.00002	0.00002	99%	TRUE
WB	2025-04-14	Zn-D	mg/L	0.00119	0.00186	0.0001	0.0001	44%	TRUE
WB	2025-04-22	Cu-D	mg/L	0.000713	0.000555	0.00005	0.00005	25%	TRUE
WB	2025-04-22	Al-D	mg/L	0.0213	0.0139	0.0005	0.0005	42%	TRUE
WB	2025-04-22	Zn-D	mg/L	0.00111	0.00055	0.0001	0.0001	67%	TRUE
WB	2025-11-03	Zn-T	mg/L	0.00058	0.00028	0.0001	0.0001	70%	TRUE
WB	2025-11-03	Zr-T	mg/L	<0.00010	0.00091	0.0001	0.0001	160%	TRUE
WD	2025-05-05	Fe-T	mg/L	0.094	0.117	0.01	0.01	22%	TRUE
WD	2025-05-05	Fe-D	mg/L	0.0308	0.0205	0.001	0.001	40%	TRUE
WD	2025-05-05	Zn-D	mg/L	0.00057	0.00114	0.0001	0.0001	67%	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

RPD > 20 % and Ratio of Results is outside the range of 0 to 22.

Appendix 1 - Tables

Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-07-16	EB2	Cu-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-16	EB2	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	B-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB2	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-16	EB2	Ca-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB2	Cl-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Bicarb	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-16	EB2	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB2	Ba-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-07-16	EB2	Alk-T	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	As-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB2	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB2	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-07-16	EB2	Carb	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Hydrox	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Sb-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-16	EB2	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB2	Al-T	mg/L	0.0040	0.0040	0.0030	0.0030	FALSE
2025-07-16	EB2	Fe-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-07-16	EB2	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB2	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB2	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB2	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-16	EB2	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB2	Sr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Na-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB2	Mg-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB2	Si-T	mg/L	<0.10	<0.10	0.10	0.10	FALSE
2025-07-16	EB2	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB2	K-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB2	Ni-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Mn-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB2	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020	FALSE
2025-07-16	EB2	Zn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB2	Pb-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-16	EB2	Ag-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB2	As-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB2	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-08-06	EB2	Pb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB2	Fe-T	mg/L	0.0062	0.0062	0.0050	0.0050	FALSE
2025-08-06	EB2	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-08-06	EB2	Cu-T	mg/L	0.00049	0.00049	0.00010	0.00010	FALSE
2025-08-06	EB2	Co-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB2	Cr-T	mg/L	0.00010	0.00010	0.00010	0.00010	FALSE
2025-08-06	EB2	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB2	Ba-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB2	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB2	Bi-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE

Appendix 1 - Tables

Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-08-06	EB2	Mg-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB2	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-08-06	EB2	Na-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB2	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB2	Ca-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB2	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-08-06	EB2	Zn-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-08-06	EB2	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB2	U-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB2	Ti-T	mg/L	<0.0020	<0.0020	0.0020	0.0020	FALSE
2025-08-06	EB2	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB2	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-08-06	EB2	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-08-06	EB2	Sr-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB2	Mn-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB2	Ag-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB2	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB2	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE
2025-08-06	EB2	K-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB2	P-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-08-06	EB2	Ni-T	mg/L	0.00053	0.00053	0.00010	0.00010	FALSE
2025-08-06	EB2	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB2	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-08-06	EB2	Al-T	mg/L	<0.0030	<0.0030	0.0030	0.0030	FALSE
2025-07-16	EB3	Cr-T	mg/L	0.00018	0.00018	0.00010	0.00010	FALSE
2025-07-16	EB3	Co-T	mg/L	0.0000164	0.0000164	0.0000050	0.0000050	FALSE
2025-07-16	EB3	Cu-T	mg/L	0.0226	0.0226	0.000050	0.000050	FALSE
2025-07-16	EB3	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-07-16	EB3	Pb-T	mg/L	0.000429	0.000429	0.0000050	0.0000050	FALSE
2025-07-16	EB3	Bi-T	mg/L	0.0000298	0.0000298	0.0000050	0.0000050	FALSE
2025-07-16	EB3	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-16	EB3	Fe-T	mg/L	0.0541	0.0541	0.0010	0.0010	FALSE
2025-07-16	EB3	Cl-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Ca-T	mg/L	0.080	0.080	0.050	0.050	FALSE
2025-07-16	EB3	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-07-16	EB3	Bicarb	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-16	EB3	Mg-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB3	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-16	EB3	Ba-T	mg/L	0.000631	0.000631	0.000020	0.000020	FALSE
2025-07-16	EB3	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-16	EB3	Na-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB3	As-T	mg/L	0.000979	0.000979	0.000020	0.000020	FALSE
2025-07-16	EB3	Zn-T	mg/L	0.0232	0.0232	0.00010	0.00010	FALSE
2025-07-16	EB3	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-16	EB3	U-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-16	EB3	Ti-T	mg/L	0.00050	0.00050	0.00050	0.00050	FALSE
2025-07-16	EB3	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Sr-T	mg/L	0.000269	0.000269	0.000050	0.000050	FALSE
2025-07-16	EB3	Mn-T	mg/L	0.00124	0.00124	0.000050	0.000050	FALSE
2025-07-16	EB3	Ag-T	mg/L	0.0000856	0.0000856	0.0000050	0.0000050	FALSE
2025-07-16	EB3	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB3	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-07-16	EB3	K-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB3	Ni-T	mg/L	0.00144	0.00144	0.000020	0.000020	FALSE
2025-07-16	EB3	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-07-16	EB3	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-16	EB3	Hydrox	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Sb-T	mg/L	0.000758	0.000758	0.000020	0.000020	FALSE
2025-07-16	EB3	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Carb	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-07-16	EB3	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB3	Alk-T	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB3	Al-T	mg/L	0.0140	0.0140	0.00050	0.00050	FALSE
2025-08-06	EB3	Al-T	mg/L	<0.0030	<0.0030	0.0030	0.0030	FALSE
2025-08-06	EB3	Bi-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB3	Cr-T	mg/L	0.00011	0.00011	0.00010	0.00010	FALSE
2025-08-06	EB3	Na-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB3	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB3	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-08-06	EB3	Co-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB3	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB3	Ba-T	mg/L	0.000055	0.000055	0.000050	0.000050	FALSE
2025-08-06	EB3	Cu-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB3	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB3	Ca-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB3	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB3	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-08-06	EB3	As-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB3	Ni-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB3	U-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB3	Ti-T	mg/L	<0.0020	<0.0020	0.0020	0.0020	FALSE
2025-08-06	EB3	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB3	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-08-06	EB3	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-08-06	EB3	Sr-T	mg/L	0.000060	0.000060	0.000050	0.000050	FALSE
2025-08-06	EB3	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-08-06	EB3	Ag-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB3	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-08-06	EB3	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE
2025-08-06	EB3	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB3	P-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-08-06	EB3	Zn-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-08-06	EB3	Fe-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-08-06	EB3	Mn-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB3	Mg-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB3	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-08-06	EB3	Pb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB3	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB3	K-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-07-09	EB3	Mn-T	mg/L	0.000124	0.000124	0.000050	0.000050	FALSE
2025-07-09	EB3	Sr-T	mg/L	0.000144	0.000144	0.000050	0.000050	FALSE
2025-07-09	EB3	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-09	EB3	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-07-09	EB3	Ni-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-07-09	EB3	K-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB3	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE
2025-07-09	EB3	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB3	Mg-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB3	Na-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB3	Pb-T	mg/L	0.0000081	0.0000081	0.0000050	0.0000050	FALSE
2025-07-09	EB3	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-09	EB3	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-09	EB3	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-09	EB3	U-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-09	EB3	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-09	EB3	Zn-T	mg/L	0.00074	0.00074	0.00010	0.00010	FALSE
2025-07-09	EB3	Ag-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-09	EB3	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-09	EB3	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-09	EB3	Al-T	mg/L	0.00260	0.00260	0.00050	0.00050	FALSE
2025-07-09	EB3	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-07-09	EB3	As-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-07-09	EB3	Ba-T	mg/L	0.000034	0.000034	0.000020	0.000020	FALSE
2025-07-09	EB3	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-09	EB3	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-07-09	EB3	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-07-09	EB3	Ca-T	mg/L	0.203	0.203	0.050	0.050	FALSE
2025-07-09	EB3	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-09	EB3	Co-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-09	EB3	Cu-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-07-09	EB3	Hard-T	mg/L	0.51	0.51	0.50	0.50	FALSE
2025-07-09	EB3	Fe-T	mg/L	0.0033	0.0033	0.0010	0.0010	FALSE
2025-07-09	EB3	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-16	EB4	U-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB4	Ag-T	mg/L	0.000085	0.000085	0.000020	0.000020	FALSE
2025-07-16	EB4	Pb-T	mg/L	0.00041	0.00041	0.00020	0.00020	FALSE
2025-07-16	EB4	Li-T	mg/L	<0.0020	<0.0020	0.0020	0.0020	FALSE
2025-07-16	EB4	Mg-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB4	Mn-T	mg/L	0.0012	0.0012	0.0010	0.0010	FALSE
2025-07-16	EB4	Mo-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB4	Ni-T	mg/L	0.0022	0.0022	0.0010	0.0010	FALSE
2025-07-16	EB4	K-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB4	Fe-T	mg/L	0.070	0.070	0.010	0.010	FALSE
2025-07-16	EB4	Si-T	mg/L	<0.10	<0.10	0.10	0.10	FALSE
2025-07-16	EB4	Ti-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB4	Na-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB4	Sr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB4	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB4	Tl-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-16	EB4	V-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB4	Zn-T	mg/L	0.0224	0.0224	0.0050	0.0050	FALSE
2025-07-16	EB4	Hydrox	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB4	Sn-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-07-16	EB4	Se-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB4	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB4	Alk-PP	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB4	Carb	mg/L	<1.0	<1.0	1.0	1.0	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-07-16	EB4	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-07-16	EB4	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-07-16	EB4	Alk-T	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB4	Al-T	mg/L	0.0122	0.0122	0.0030	0.0030	FALSE
2025-07-16	EB4	Sb-T	mg/L	0.00060	0.00060	0.00050	0.00050	FALSE
2025-07-16	EB4	As-T	mg/L	0.00094	0.00094	0.00010	0.00010	FALSE
2025-07-16	EB4	Ba-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB4	Cl-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-07-16	EB4	Be-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-16	EB4	Cr-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB4	Co-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-16	EB4	Cu-T	mg/L	0.0209	0.0209	0.00050	0.00050	FALSE
2025-07-16	EB4	Ca-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB4	Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-16	EB4	B-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-16	EB4	Bi-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-07-16	EB4	Bicarb	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-08-06	EB4	Mn-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB4	SO4-D	mg/L	<1.0	<1.0	1.0	1.0	FALSE
2025-08-06	EB4	Ni-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB4	P-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-08-06	EB4	K-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB4	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE
2025-08-06	EB4	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-08-06	EB4	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB4	Ag-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB4	Zn-T	mg/L	<0.0010	<0.0010	0.0010	0.0010	FALSE
2025-08-06	EB4	Sr-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB4	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-08-06	EB4	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB4	Mg-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB4	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-08-06	EB4	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-08-06	EB4	U-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB4	Na-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB4	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-08-06	EB4	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-08-06	EB4	Ti-T	mg/L	<0.0020	<0.0020	0.0020	0.0020	FALSE
2025-08-06	EB4	Al-T	mg/L	<0.0030	<0.0030	0.0030	0.0030	FALSE
2025-08-06	EB4	Sb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB4	As-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB4	Ba-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-08-06	EB4	Ca-T	mg/L	<0.25	<0.25	0.25	0.25	FALSE
2025-08-06	EB4	Bi-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB4	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-08-06	EB4	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB4	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-08-06	EB4	Co-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-08-06	EB4	Cu-T	mg/L	0.00074	0.00074	0.00010	0.00010	FALSE
2025-08-06	EB4	Hard-T	mg/L	<0.50	<0.50	0.50	0.50	FALSE
2025-08-06	EB4	Fe-T	mg/L	<0.0050	<0.0050	0.0050	0.0050	FALSE
2025-08-06	EB4	Pb-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-08-06	EB4	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-07-09	EB4	Co-T	mg/L	0.0000110	0.0000110	0.0000050	0.0000050	FALSE
2025-07-09	EB4	Ba-T	mg/L	0.000170	0.000170	0.000020	0.000020	FALSE
2025-07-09	EB4	Hard-T	mg/L	0.71	0.71	0.50	0.50	FALSE
2025-07-09	EB4	Cr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-09	EB4	Ca-T	mg/L	0.285	0.285	0.050	0.050	FALSE
2025-07-09	EB4	Cd-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-09	EB4	B-T	mg/L	<0.010	<0.010	0.010	0.010	FALSE
2025-07-09	EB4	Fe-T	mg/L	0.0109	0.0109	0.0010	0.0010	FALSE
2025-07-09	EB4	Be-T	mg/L	<0.000010	<0.000010	0.000010	0.000010	FALSE
2025-07-09	EB4	Li-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-09	EB4	As-T	mg/L	<0.000020	<0.000020	0.000020	0.000020	FALSE
2025-07-09	EB4	Sb-T	mg/L	0.000029	0.000029	0.000020	0.000020	FALSE
2025-07-09	EB4	Al-T	mg/L	0.00796	0.00796	0.00050	0.00050	FALSE
2025-07-09	EB4	Zr-T	mg/L	<0.00010	<0.00010	0.00010	0.00010	FALSE
2025-07-09	EB4	S-T	mg/L	<3.0	<3.0	3.0	3.0	FALSE
2025-07-09	EB4	Pb-T	mg/L	0.0000343	0.0000343	0.0000050	0.0000050	FALSE
2025-07-09	EB4	Bi-T	mg/L	<0.0000050	<0.0000050	0.0000050	0.0000050	FALSE
2025-07-09	EB4	Ag-T	mg/L	0.0000089	0.0000089	0.0000050	0.0000050	FALSE
2025-07-09	EB4	V-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-09	EB4	U-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-09	EB4	Ti-T	mg/L	<0.00050	<0.00050	0.00050	0.00050	FALSE
2025-07-09	EB4	Sn-T	mg/L	<0.00020	<0.00020	0.00020	0.00020	FALSE
2025-07-09	EB4	Tl-T	mg/L	<0.0000020	<0.0000020	0.0000020	0.0000020	FALSE
2025-07-09	EB4	Cu-T	mg/L	0.000207	0.000207	0.000050	0.000050	FALSE
2025-07-09	EB4	Na-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB4	Zn-T	mg/L	0.00181	0.00181	0.00010	0.00010	FALSE
2025-07-09	EB4	Si-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB4	Se-T	mg/L	<0.000040	<0.000040	0.000040	0.000040	FALSE
2025-07-09	EB4	K-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-07-09	EB4	Ni-T	mg/L	0.000045	0.000045	0.000020	0.000020	FALSE
2025-07-09	EB4	Mo-T	mg/L	<0.000050	<0.000050	0.000050	0.000050	FALSE
2025-07-09	EB4	Mn-T	mg/L	0.000301	0.000301	0.000050	0.000050	FALSE
2025-07-09	EB4	Sr-T	mg/L	0.000209	0.000209	0.000050	0.000050	FALSE
2025-07-09	EB4	Mg-T	mg/L	<0.050	<0.050	0.050	0.050	FALSE
2025-10-15	FB	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002	FALSE
2025-10-15	FB	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005	FALSE
2025-10-15	FB	Hard-T	mg/L	<0.50	<0.50	0.5	0.5	FALSE
2025-10-15	FB	Fe-T	mg/L	<0.010	<0.010	0.01	0.01	FALSE
2025-10-15	FB	Mn-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Mg-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-15	FB	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002	FALSE
2025-10-15	FB	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002	FALSE
2025-10-15	FB	Ca-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-15	FB	Sr-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Na-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-15	FB	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-10-15	FB	Si-T	mg/L	<0.10	<0.10	0.1	0.1	FALSE
2025-10-15	FB	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-15	FB	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-15	FB	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-15	FB	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-15	FB	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001	FALSE
2025-10-15	FB	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-15	FB	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-15	FB	V-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-15	FB	K-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-15	FB	S-T	mg/L	<3.0	<3.0	3	3	FALSE
2025-10-15	FB	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001	FALSE
2025-10-15	FB	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-15	FB	Al-T	mg/L	<0.0030	<0.0030	0.003	0.003	FALSE
2025-10-15	FB	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005	FALSE
2025-10-15	FB	As-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-15	FB	Ba-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-15	FB	B-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	B-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	Hard-T	mg/L	<0.50	<0.50	0.5	0.5	FALSE
2025-10-07	TB	Cu-T	mg/L	<0.00050	<0.00050	0.0005	0.0005	FALSE
2025-10-07	TB	Co-T	mg/L	<0.00020	<0.00020	0.0002	0.0002	FALSE
2025-10-07	TB	Cr-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	Fe-T	mg/L	<0.010	<0.010	0.01	0.01	FALSE
2025-10-07	TB	Cd-T	mg/L	<0.000010	<0.000010	0.00001	0.00001	FALSE
2025-10-07	TB	Mn-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE

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Table 56 Blanks 23 Page(s)

Equipment Blanks (EB)								
Date	Stn2	Param.Code	Units	Result1	Result2	LMDL1	LMDL2	True RPD >20%
2025-10-07	TB	Bi-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	Be-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-07	TB	Ca-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	Pb-T	mg/L	<0.00020	<0.00020	0.0002	0.0002	FALSE
2025-10-07	TB	Ba-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	Mg-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	Zr-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-07	TB	Mo-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	Ni-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	K-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	Se-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-07	TB	Tl-T	mg/L	<0.000010	<0.000010	0.00001	0.00001	FALSE
2025-10-07	TB	Sr-T	mg/L	<0.0010	<0.0010	0.001	0.001	FALSE
2025-10-07	TB	Na-T	mg/L	<0.050	<0.050	0.05	0.05	FALSE
2025-10-07	TB	Ag-T	mg/L	<0.000020	<0.000020	0.00002	0.00002	FALSE
2025-10-07	TB	Li-T	mg/L	<0.0020	<0.0020	0.002	0.002	FALSE
2025-10-07	TB	Zn-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-07	TB	Al-T	mg/L	<0.0030	<0.0030	0.003	0.003	FALSE
2025-10-07	TB	Si-T	mg/L	<0.10	<0.10	0.1	0.1	FALSE
2025-10-07	TB	V-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-07	TB	U-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-07	TB	Ti-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-07	TB	Sn-T	mg/L	<0.0050	<0.0050	0.005	0.005	FALSE
2025-10-07	TB	S-T	mg/L	<3.0	<3.0	3	3	FALSE
2025-10-07	TB	As-T	mg/L	<0.00010	<0.00010	0.0001	0.0001	FALSE
2025-10-07	TB	Sb-T	mg/L	<0.00050	<0.00050	0.0005	0.0005	FALSE

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Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam River 2025-2026						
Station Name		Quinsam River at Argonaut Road				
Stn.Code		WA	WA	WA	WA	WA
Date		2025/05/05	2025/05/12	2025/05/20	2025/05/26	2025/06/02
Acidity83	mg/L	<1.0	1.9	<1.0	<1.0	1.2
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0123	0.0121	0.0139	0.0147	0.0122
Al-T	mg/L	0.0176	0.0146	0.0176	0.0159	0.0167
Alk-T	mg/L	22	22	22	23	23
As-D	mg/L	0.000110	0.000088	0.000088	0.000096	0.000084
As-T	mg/L	<0.00010	0.000079	0.000085	0.000079	0.000062
B-D	mg/L	<0.010	0.021	<0.010	<0.010	<0.010
B-T	mg/L	<0.050	<0.01	<0.010	<0.010	<0.010
Ba-D	mg/L	0.000642	0.000627	0.000626	0.000713	0.000657
Ba-T	mg/L	<0.0010	0.000660	0.000640	0.000680	0.000661
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	7.28	7.36	7.23	7.35	7.44
Ca-T	mg/L	6.98	7.33	7.18	7.11	7.37
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	0.0000090	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000210	0.0000130	0.0000092	0.0000100	0.0000066
Co-T	mg/L	<0.00020	0.0000110	0.0000089	0.0000141	0.0000150
Cond-F	uS/cm	47.2	51.2	67.3	50	47.9
Cr-D	mg/L	0.00011	0.00010	<0.00010	0.00015	<0.00010
Cr-T	mg/L	<0.0010	0.00011	<0.00010	0.00012	0.00011
Cu-D	mg/L	0.000590	0.000553	0.000553	0.000732	0.000544
Cu-T	mg/L	0.00080	0.000610	0.000603	0.000556	0.000582
DOC	mg/L	1.9	1.8	2.0	2.1	2.0
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0073	0.0090	0.0067	0.0099	0.0087
Fe-T	mg/L	0.015	0.0115	0.0113	0.0138	0.0148
Hard-D	mg/L	21.5	21.6	21.0	21.4	21.5
Hard-T	mg/L	20.3	21.5	21.0	20.6	21.6
K-D	mg/L	0.063	0.057	<0.050	<0.050	0.052
K-T	mg/L	0.055	0.054	<0.050	0.052	<0.050
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.0020	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	0.805	0.782	0.717	0.736	0.717
Mg-T	mg/L	0.705	0.785	0.753	0.695	0.771
Mn-D	mg/L	0.000905	0.000990	0.000716	0.00107	0.00120
Mn-T	mg/L	0.0015	0.00161	0.00140	0.00196	0.00222
Mo-D	mg/L	0.000271	0.000180	0.000253	0.000213	0.000171
Mo-T	mg/L	<0.0010	0.000158	0.000183	0.000168	0.000169
Na-D	mg/L	0.647	0.654	0.609	0.597	0.615
Na-T	mg/L	0.635	0.649	0.623	0.591	0.624
Ni-D	mg/L	0.000053	0.000059	0.000043	0.000036	0.000035
Ni-T	mg/L	<0.0010	0.000044	0.000026	0.000039	0.000048
Pb-D	mg/L	0.0000050	<0.0000050	<0.0000050	0.0000410	<0.0000050
Pb-T	mg/L	<0.00020	<0.0000050	<0.0000050	0.0000059	<0.0000050
pH-F	pH Units	7.45	7.6	8.37	7.53	7.73
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0
Se-D	mg/L	0.000056	0.000050	0.000068	0.000057	<0.000040
Se-T	mg/L	<0.00010	0.000064	0.000064	0.000070	0.000049
Si-D	mg/L	2.07	1.99	1.80	1.77	1.76
Si-T	mg/L	1.83	1.9	1.96	1.78	1.80
SO4-D	mg/L	1.1	<1.0	1.3	1.2	<1.0
Sr-D	mg/L	0.0122	0.0123	0.0124	0.0121	0.0120
Sr-T	mg/L	0.0116	0.0120	0.0124	0.0116	0.0120
Temp-F	C	13.1	14.9	13.6	13.7	13.8
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	1.2	1.2
Zn-D	mg/L	0.00062	0.00079	0.00250	0.00149	0.00145
Zn-T	mg/L	<0.0050	0.00017	<0.00010	0.00021	0.00015

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Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Mid Quinsam Lake Outlet								
Stn.Code		WB	WB	WB	WB	WB	WB	WB	WB	WB
Date		2025/04/29	2025/04/30	2025/05/01	2025/05/05	2025/05/12	2025/05/20	2025/05/26	2025/06/02	2025/11/20
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0117	0.0132	0.0116	0.0121	0.0102	0.0105	0.0105	0.0101	0.0192
Al-T	mg/L	0.0148	0.0142	0.0141	0.0137	0.0123	0.0128	0.0109	0.0114	0.0254
Alk-T	mg/L	27	28	28	25	26	26	26	25	29
As-D	mg/L	0.00012	0.000126	0.000094	0.000125	0.000118	0.000142	0.000124	0.000122	0.000161
As-T	mg/L	<0.00010	<0.00010	<0.00010	0.00014	0.000138	0.000134	0.000120	0.000099	0.000176
B-D	mg/L	<0.050	0.023	0.019	0.014	0.022	0.015	0.013	0.016	0.024
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.017	0.017	0.015	0.013	0.026
Ba-D	mg/L	0.0014	0.00133	0.00131	0.00134	0.00117	0.00121	0.00122	0.00116	0.00227
Ba-T	mg/L	0.0012	0.0012	0.0012	0.0013	0.00121	0.00131	0.00118	0.00113	0.0023
Be-D	mg/L	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	8.94	9.07	9.00	8.89	8.93	9.13	9.02	8.71	11
Ca-T	mg/L	8.79	8.20	8.58	8.60	8.79	9.02	8.62	8.44	10.9
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	<0.00020	0.0000120	0.0000150	0.0000170	0.0000100	0.0000100	0.0000100	0.0000104	0.0000149
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000130	0.0000120	0.0000132	0.0000130	0.0000248
Cond-F	uS/cm	85.5	81.3	87.8	79.3	77.1	78.3	77.2	66.7	98.2
Cr-D	mg/L	<0.0010	<0.00010	<0.00010	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	0.00015
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014
Cu-D	mg/L	0.00060	0.000536	0.000523	0.000627	0.000496	0.000513	0.000527	0.000492	0.000576
Cu-T	mg/L	0.00050	0.00051	0.00053	0.00055	0.000545	0.000516	0.000493	0.000502	0.000548
DOC	mg/L	2.2	2.1	2.2	2.1	1.9	2.3	2.3	2.1	2.8
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0179	0.0177	0.0208	0.0225	0.0194	0.0207	0.0225	0.0236	0.023
Fe-T	mg/L	0.026	0.025	0.030	0.032	0.0295	0.0303	0.0288	0.0310	0.0348
Hard-D	mg/L	27.1	27.2	26.9	26.7	26.4	26.9	27.0	25.5	33
Hard-T	mg/L	26.4	24.5	25.6	25.4	26.1	26.7	25.3	25.1	32.9
K-D	mg/L	0.114	0.107	0.097	0.103	0.094	0.087	0.096	0.081	0.161
K-T	mg/L	0.109	0.090	0.097	0.096	0.088	0.091	0.085	0.079	0.163
Li-D	mg/L	<0.0020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.16	1.11	1.07	1.09	1.00	0.999	1.09	0.904	1.34
Mg-T	mg/L	1.08	0.979	1.01	0.950	1.01	1.01	0.926	0.975	1.4
Mn-D	mg/L	0.0038	0.00422	0.00439	0.00542	0.00526	0.00602	0.00676	0.00716	0.00235
Mn-T	mg/L	0.0050	0.0048	0.0056	0.0067	0.00659	0.00765	0.00737	0.00806	0.00454
Mo-D	mg/L	<0.0010	0.000212	0.000190	0.000177	0.000179	0.000239	0.000257	0.000199	0.000199
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000173	0.000173	0.000176	0.000161	0.00016
Na-D	mg/L	4.95	4.68	4.08	3.75	3.34	3.05	2.98	2.32	5.7
Na-T	mg/L	4.52	4.08	3.88	3.67	3.36	3.16	2.74	2.41	6.04
Ni-D	mg/L	<0.0010	0.000080	0.000075	0.000076	0.000053	0.000065	0.000030	0.000056	0.000062
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000064	0.000052	0.000032	0.000068	0.000064
Pb-D	mg/L	<0.00020	0.0000060	0.0000130	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
pH-F	pH Units	8.02	7.47	7.54	7.68	7.84	8.21	8.08	7.76	7.19
S-D	mg/L	4.2	4.4	3.0	3.2	<3.0	<3.0	3.1	<3.0	5.1
S-T	mg/L	3.4	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.5
Se-D	mg/L	<0.00010	0.000048	0.000050	<0.000040	0.000053	0.000050	0.000063	<0.000040	0.000048
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000042	0.000055	0.000058	0.000050	0.000054
Si-D	mg/L	1.84	2.02	1.79	2.00	1.97	1.84	1.82	1.66	2.43
Si-T	mg/L	1.92	1.70	1.75	1.79	1.85	1.95	1.73	1.70	2.5
SO4-D	mg/L	11	10	9.2	8.8	7.6	8.2	6.4	5.7	17
Sr-D	mg/L	0.0334	0.0336	0.0286	0.0307	0.0276	0.0295	0.0276	0.0250	0.0409
Sr-T	mg/L	0.0312	0.0284	0.0289	0.0290	0.0281	0.0311	0.0268	0.0253	0.0426
Temp-F	C	15.8	14.8	14.8	16.1	14.8	14.7	14	16.7	8.01
Ti-D	mg/L	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
TI-D	mg/L	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	1.2	1.2	<1.0
Zn-D	mg/L	0.0066	0.00128	0.00062	0.0146	0.00060	0.00150	0.00126	0.00097	0.00094
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00013	<0.00010	<0.00010	0.00016	0.00021

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Mid Quinsam Lake Outlet								
Stn.Code		WB	WB	WB	WB	WB	WB	WB	WB	WB
Date		2025/11/21	2025/11/22	2025/11/23	2025/11/24	2025/11/25	2025/11/26	2025/11/27	2025/12/02	2025/12/04
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000020	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000020	<0.0000050
Al-D	mg/L	0.0195	0.0188	0.0197	0.0188	0.0186	0.0208	0.0156	0.0152	0.0173
Al-T	mg/L	0.0249	0.025	0.024	0.0242	0.0217	0.0231	0.0225	0.0231	0.0206
Alk-T	mg/L	30	36	29	27	28	28	28	26	
As-D	mg/L	0.000159	0.000175	0.000172	0.000148	0.000147	0.000123	0.000123	0.00013	0.00014
As-T	mg/L	0.000161	0.000163	0.000156	0.000135	0.000174	0.000137	0.000134	0.00012	0.000132
B-D	mg/L	0.025	0.027	0.027	0.021	0.023	0.02	0.018	<0.050	0.017
B-T	mg/L	0.028	0.029	0.028	0.022	0.022	0.021	0.021	<0.050	0.014
Ba-D	mg/L	0.00271	0.003	0.00291	0.00157	0.00158	0.00147	0.00158	0.0014	0.00146
Ba-T	mg/L	0.0027	0.00289	0.0028	0.00159	0.00155	0.00156	0.00160	0.0014	0.0015
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.00010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.00010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0010	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0010	<0.0000050
Br-D	mg/L	0.028	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Ca-D	mg/L	11	10.8	10	9.16	9.93	9.67	9.63	8.84	8.9
Ca-T	mg/L	10.9	11.4	11.1	9.91	9.62	9.33	9.95	8.56	9.03
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Co-D	mg/L	0.0000172	0.0000171	0.0000168	0.000016	0.0000157	0.000013	0.0000167	<0.00020	0.0000154
Co-T	mg/L	0.0000186	0.0000194	0.0000177	0.0000171	0.0000174	0.0000182	0.0000212	<0.00020	0.0000174
Cond-F	uS/cm	115.8	145.5	111.9	84.3	81.5	86.6	85.9	82.6	72.8
Cr-D	mg/L	0.00015	0.00014	0.00017	0.00014	0.00014	0.00015	0.00013	<0.0010	0.00013
Cr-T	mg/L	0.00014	0.00014	0.00014	0.00014	0.00015	0.00015	0.00017	<0.0010	0.00013
Cu-D	mg/L	0.000555	0.000561	0.000579	0.000557	0.000535	0.000531	0.000564	0.00039	0.000522
Cu-T	mg/L	0.000541	0.000524	0.000506	0.000524	0.000576	0.000582	0.000604	0.00057	0.000552
DOC	mg/L	2.8	2.9	2.8	2.7	2.6	2.6	2.5	2.6	
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Fe-D	mg/L	0.028	0.0241	0.0223	0.0225	0.0211	0.0216	0.0218	0.0224	0.0245
Fe-T	mg/L	0.0322	0.0348	0.0329	0.0303	0.0313	0.0325	0.0337	0.032	0.0358
Hard-D	mg/L	33.2	32.9	30.8	27.7	29.6	28.8	28.5	26.2	26.7
Hard-T	mg/L	32.9	34.6	33.7	29.9	28.7	28.2	30.0	25.6	26.8
K-D	mg/L	0.168	0.179	0.174	0.13	0.131	0.135	0.116	0.105	0.115
K-T	mg/L	0.165	0.175	0.173	0.13	0.128	0.135	0.132	0.115	0.114
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0020	<0.00050
Mg-D	mg/L	1.39	1.42	1.4	1.16	1.16	1.13	1.08	0.992	1.08
Mg-T	mg/L	1.4	1.48	1.46	1.24	1.13	1.19	1.26	1.01	1.04
Mn-D	mg/L	0.00248	0.00233	0.00233	0.00335	0.00349	0.00359	0.00363	0.0036	0.00402
Mn-T	mg/L	0.00378	0.00449	0.00376	0.00416	0.00453	0.00452	0.00470	0.0042	0.00483
Mo-D	mg/L	0.00018	0.000185	0.000196	0.000202	0.000168	0.000199	0.000174	<0.0010	0.000186
Mo-T	mg/L	0.000157	0.000156	0.00015	0.000159	0.00016	0.000161	0.000158	<0.0010	0.000172
Na-D	mg/L	6.54	7.36	7.26	4.87	4.93	4.92	4.48	3.64	3.61
Na-T	mg/L	6.79	7.33	7.6	5.04	4.9	4.96	4.82	3.66	3.47
Ni-D	mg/L	0.000063	0.000068	0.000072	0.000059	0.000063	0.000051	0.000056	<0.0010	0.000067
Ni-T	mg/L	0.00007	0.000069	0.000068	0.000067	0.000076	0.000086	0.000083	<0.0010	0.000063
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.00020	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.00020	<0.0000050
pH-F	pH Units	7.47	7.32	7.44	7.67	7.14	6.75	6.55	7.29	7.69
S-D	mg/L	5.9	6.4	5.9	3.9	4.2	4.7	3.9	<3.0	<3.0
S-T	mg/L	6.2	6.2	6.1	4.1	4.2	4.2	4.1	<3.0	3.2
Se-D	mg/L	0.000046	0.000055	0.000048	0.00005	0.000046	0.00004	0.000062	<0.00010	<0.000040
Se-T	mg/L	0.000048	0.000054	0.000051	0.000058	0.000053	0.000052	0.000059	<0.00010	0.000052
Si-D	mg/L	2.4	2.41	2.32	2.29	2.34	2.37	2.15	2.07	2.31
Si-T	mg/L	2.45	2.47	2.48	2.43	2.41	2.27	2.29	2.3	2.19
SO4-D	mg/L	19	24	19	13	13	13	12	10	9.6
Sr-D	mg/L	0.0442	0.048	0.0463	0.0337	0.0345	0.0367	0.0333	0.0294	0.0294
Sr-T	mg/L	0.045	0.0452	0.0437	0.0351	0.0373	0.0345	0.0344	0.0308	0.0289
Temp-F	C	7.8	8.031	7.428	7.7	6.9	6.9	6.75	8.3	6.3
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	<0.00050
Ti-T	mg/L	<0.00050	0.00051	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	<0.00050
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.000010	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.000010	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00119	0.001	0.00092	0.00074	0.00067	0.00064	0.00093	<0.0050	0.00079
Zn-T	mg/L	0.00019	0.00018	0.00029	0.00022	0.00023	0.0006	0.00022	<0.0050	0.00021

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Mid Quinsam Lake Outlet								
Stn.Code		WB	WB	WB	WB	WB	WB	WB	WB	WB
Date		2025/12/05	2025/12/06	2025/12/07	2025/12/08	2025/12/09	2025/12/10	2025/12/11	2025/12/12	2025/12/14
Acidity83	mg/L		<1.0	1.1	<1.0	<1.0	1.1	1.1	1.3	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010
Al-D	mg/L	0.0183	0.0175	0.0171	0.017	0.0206	0.0239	0.0287	0.0317	0.0283
Al-T	mg/L	0.0236	0.0221	0.0215	0.0218	0.0264	0.0331	0.0368	0.0416	0.0432
Alk-T	mg/L		25	25	28	26	25	22	24	23
As-D	mg/L	0.000127	0.000141	0.000135	0.000137	0.000176	0.000198	0.000199	0.000221	0.000159
As-T	mg/L	0.000133	0.000143	0.000139	0.000143	0.000181	0.000213	0.000211	0.000210	0.000175
B-D	mg/L	0.019	0.016	0.015	0.016	0.021	0.019	0.021	0.023	0.017
B-T	mg/L	0.019	0.016	0.015	0.016	0.021	0.024	0.016	0.023	0.02
Ba-D	mg/L	0.00148	0.00148	0.00149	0.00149	0.00184	0.00202	0.00201	0.00205	0.0016
Ba-T	mg/L	0.00154	0.00151	0.00148	0.00154	0.00187	0.00262	0.00207	0.00198	0.00198
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	8.79	8.75	8.45	8.78	9.82	9.63	9.8	9.53	8.49
Ca-T	mg/L	9.07	8.99	8.55	8.88	10.7	9.61	9.38	9.55	10.3
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000165	0.0000153	0.0000154	0.0000149	0.0000209	0.0000204	0.00002	0.0000233	0.0000175
Co-T	mg/L	0.0000222	0.0000193	0.0000173	0.0000189	0.0000224	0.0000201	0.0000249	0.0000276	0.000031
Cond-F	uS/cm	72.8	77	75.8	79.5	76.9	88.7	84	79	67.3
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	0.0001	0.00011	<0.00010	0.00019
Cu-D	mg/L	0.000583	0.000582	0.00058	0.00056	0.000562	0.000436	0.000556	0.000574	0.00064
Cu-T	mg/L	0.000661	0.00058	0.000582	0.000586	0.000597	0.00055	0.0006	0.000610	0.00119
DOC	mg/L		2.5	2.5	2.4	2.8	3	3.3	3.2	2.9
F-D	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0239	0.0251	0.0235	0.0258	0.0327	0.0412	0.0471	0.0429	0.0338
Fe-T	mg/L	0.0382	0.038	0.0415	0.0386	0.047	0.058	0.0632	0.0577	0.068
Hard-D	mg/L	26.6	26.2	25.4	26.3	29.7	29.2	29.5	28.9	25.6
Hard-T	mg/L	27.5	27	25.7	26.5	31.8	29.3	28.3	28.8	30.8
K-D	mg/L	0.112	0.114	0.11	0.109	0.123	0.137	0.126	0.135	0.112
K-T	mg/L	0.121	0.118	0.114	0.114	0.123	0.138	0.126	0.135	<0.25
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.12	1.07	1.04	1.06	1.26	1.25	1.22	1.23	1.06
Mg-T	mg/L	1.17	1.1	1.05	1.06	1.26	1.3	1.18	1.21	1.23
Mn-D	mg/L	0.00406	0.00381	0.00387	0.00381	0.00424	0.00397	0.00339	0.00270	0.00222
Mn-T	mg/L	0.00549	0.00528	0.00505	0.00506	0.00553	0.00489	0.00461	0.00370	0.00365
Mo-D	mg/L	0.000205	0.000182	0.000186	0.000173	0.000188	0.000192	0.000289	0.000193	0.000318
Mo-T	mg/L	0.000174	0.000171	0.000172	0.000163	0.000158	0.000173	0.000165	0.000183	0.000254
Na-D	mg/L	3.95	3.42	3.15	3.18	3.72	4.35	4.12	4.16	3.6
Na-T	mg/L	3.94	3.52	3.34	3.36	3.88	4.47	3.92	4.28	4.29
Ni-D	mg/L	0.000067	0.000062	0.000059	0.000064	0.000069	0.000084	0.000064	0.000073	0.00007
Ni-T	mg/L	0.00007	0.000056	0.000072	0.000069	0.000072	0.000091	0.000095	0.000083	0.00011
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000089	0.0000135	0.000006	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000193	<0.0000050	0.0000066	0.000029
pH-F	pH Units	7.54	7.58	7.68	6.57	7.27	7.01	6.93	6.6	6.96
S-D	mg/L	3.3	3.3	3	3.1	4	4.6	4.1	4.3	<3.0
S-T	mg/L	3.4	3.3	3.1	3.2	4.1	4.9	4	4.1	3.9
Se-D	mg/L	0.000045	0.000051	0.000051	0.000051	0.00005	0.000046	0.000049	0.000041	0.000043
Se-T	mg/L	0.000053	0.000058	0.000054	0.000054	0.000047	0.000044	0.00005	0.000051	0.000062
Si-D	mg/L	2.25	2.19	2.09	2.28	2.48	2.64	2.88	2.85	2.58
Si-T	mg/L	2.28	2.27	2.17	2.24	2.67	2.69	2.63	2.82	2.99
SO4-D	mg/L		9.5	9.1	9.4	13	15	14	13	9.4
Sr-D	mg/L	0.03	0.0288	0.0272	0.028	0.0358	0.0392	0.0385	0.0370	0.0284
Sr-T	mg/L	0.0303	0.0287	0.0276	0.0284	0.0361	0.0422	0.0366	0.0373	0.0348
Temp-F	C	6.4	5.8	5.8	6.9	5.9	7.5	7.4	6	7.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00056	0.00076	0.00086	<0.0020
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.6
Zn-D	mg/L	0.00063	0.00029	0.00087	0.00042	0.00053	0.00164	0.00192	0.00082	0.00125
Zn-T	mg/L	0.00017	<0.00010	<0.00010	<0.00010	<0.00010	0.00019	0.00033	0.00015	<0.0010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Mid Quinsam Lake Outlet								
Stn.Code		WB	WB	WB	WB	WB	WB	WB	WB	WB
Date		2025/12/15	2025/12/16	2025/12/17	2025/12/18	2025/12/19	2025/12/22	2025/12/24	2025/12/28	2025/12/30
Acidity83	mg/L	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	1.5	1.5	2
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0275	0.0323	0.0325	0.03	0.0288	0.0271	0.0196	0.0197	0.0201
Al-T	mg/L	0.0394	0.0511	0.0354	0.0513	0.0777	0.0406	0.0337	0.0794	0.0291
Alk-T	mg/L	26	22	21	23	20	23	26	27	27
As-D	mg/L	0.000194	0.000155	0.000173	0.000135	0.000148	0.000134	0.000111	0.000117	0.000113
As-T	mg/L	0.000201	0.000166	0.000209	0.00014	0.000178	0.000146	0.000118	0.000165	0.00012
B-D	mg/L	0.022	0.021	0.017	0.013	0.015	0.014	0.016	0.019	0.019
B-T	mg/L	0.023	0.018	0.017	0.016	0.014	0.015	0.018	0.021	0.021
Ba-D	mg/L	0.00219	0.00189	0.00166	0.00164	0.00147	0.00133	0.00119	0.00131	0.00127
Ba-T	mg/L	0.00227	0.00205	0.00155	0.00182	0.00207	0.00141	0.00125	0.00212	0.00129
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000062
Bi-T	mg/L	<0.0000050	<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.5	8.5	8.26	8.17	8.02	8.52	8.5	9.33	9.14
Ca-T	mg/L	10.6	8	9.58	8.6	7.97	8.58	8.73	9.13	9.02
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000164	0.0000209	0.00002	0.000019	0.00002	0.000018	0.0000164	0.0000190	0.0000182
Co-T	mg/L	0.000022	0.00003	0.000022	0.000029	0.000045	0.000024	0.0000228	0.0000668	0.000023
Cond-F	uS/cm	93.4	86.8	64.6	65.3	64.9	64.2	69.8	78.5	127.2
Cr-D	mg/L	<0.00010	<0.00010	0.00011	<0.00010	<0.00010	0.00011	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00011	0.00013	0.0001	0.00011	0.00017	0.00011	0.00012	0.00020	0.00013
Cu-D	mg/L	0.000582	0.00062	0.000626	0.000717	0.000613	0.000585	0.000625	0.000630	0.000617
Cu-T	mg/L	0.000697	0.00087	0.00097	0.000685	0.00141	0.000628	0.000691	0.00105	0.000686
DOC	mg/L	3.1	3.3	3.2	3.1	3.1	2.9	2.6	3.0	2.4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0387	0.0352	0.0315	0.0308	0.0274	0.0223	0.0159	0.0197	0.0193
Fe-T	mg/L	0.06	0.0608	0.0277	0.0529	0.0949	0.0402	0.0324	0.117	0.0352
Hard-D	mg/L	31.8	25.9	24.8	24.7	24.2	25.5	25.2	27.3	26.9
Hard-T	mg/L	32	24.6	28.1	25.9	24.2	25.7	26.1	27.5	27
K-D	mg/L	0.144	0.131	0.114	0.115	0.106	0.097	0.107	0.122	0.115
K-T	mg/L	0.146	<0.25	<0.25	0.113	<0.25	0.101	0.109	0.133	0.124
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.35	1.13	1.02	1.05	1.02	1.01	0.958	0.970	0.979
Mg-T	mg/L	1.35	1.11	1.01	1.08	1.04	1.04	1.06	1.13	1.09
Mn-D	mg/L	0.00308	0.00254	0.00217	0.00195	0.00164	0.00167	0.00183	0.00252	0.00243
Mn-T	mg/L	0.00442	0.00395	0.00309	0.0033	0.00386	0.00354	0.00293	0.00504	0.00354
Mo-D	mg/L	0.000374	0.000245	0.000261	0.000336	0.000232	0.000266	0.000194	0.000188	0.000181
Mo-T	mg/L	0.00018	0.00016	0.000184	0.000173	0.000193	0.000171	0.000181	0.000175	0.000173
Na-D	mg/L	4.62	3.4	2.71	2.62	2.38	2.7	3.17	3.81	4.05
Na-T	mg/L	4.77	3	2.72	2.74	2.53	2.84	3.64	4.43	4.54
Ni-D	mg/L	0.000082	0.000078	0.000069	0.000068	0.00006	0.00005	0.000061	0.000059	0.000068
Ni-T	mg/L	0.00009	0.00011	<0.00010	0.000079	0.00017	0.00006	0.000076	0.000163	0.000075
Pb-D	mg/L	0.0000065	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000006	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	0.000007	0.000022	<0.000020	0.000006	0.00017	0.000006	<0.0000050	0.0000591	<0.0000050
pH-F	pH Units	7.07	7.08	7.18	7.54	6.91	7.65	7.68	7.06	7.57
S-D	mg/L	5	3.8	<3.0	3.1	<3.0	<3.0	<3.0	3.2	3.1
S-T	mg/L	5.2	3.8	3.2	<3.0	<3.0	<3.0	<3.0	3.5	3.4
Se-D	mg/L	<0.000040	0.000048	0.000053	0.000047	0.000052	0.000054	0.000059	0.000059	0.000057
Se-T	mg/L	0.000045	<0.000040	0.00006	0.000057	0.000048	0.000056	0.000064	0.000062	0.000056
Si-D	mg/L	2.66	2.63	2.61	2.42	2.52	2.49	2.08	2.14	2.05
Si-T	mg/L	2.73	2.52	2.78	2.8	2.53	2.55	2.15	2.24	2.08
SO4-D	mg/L	16	13	9.5	9.2	7.9	7.7	8.3	10	10
Sr-D	mg/L	0.0427	0.0347	0.0307	0.0277	0.0239	0.0246	0.026	0.0291	0.0286
Sr-T	mg/L	0.0433	0.0332	0.0309	0.0293	0.0256	0.0254	0.026	0.0293	0.0306
Temp-F	C	8.1	7.3	6	6.1	6.1	4.7	4.9	4.1	4.45
Ti-D	mg/L	<0.00050	0.00053	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00092	<0.0020	<0.0020	0.00082	0.003	0.00081	0.00062	0.00457	0.00063
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Zn-D	mg/L	0.00272	0.00083	0.002	0.00107	0.00067	0.0018	0.00055	0.00232	0.00073
Zn-T	mg/L	0.00029	0.0021	<0.0010	0.00016	0.0019	0.00013	0.00013	0.00840	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Mid Quinsam Lake Outlet								
Stn.Code		WB	WB	WB	WB	WB	WB	WB	WB	WB
Date		2025/12/31	2026/01/06	2026/01/07	2026/01/08	2026/01/19	2026/01/26	2026/01/29	2026/02/02	2026/02/05
Acidity83	mg/L	2.2	<1.0	1.1	2.7	1.5		2.4	1.5	
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Al-D	mg/L	0.0197	0.0266	0.0393	0.035	0.0268	0.0232	0.0231	0.027	0.0326
Al-T	mg/L	0.0257	0.0382	0.0272	0.0245	0.042	0.036	0.037	0.0405	0.0403
Alk-T	mg/L	29	30	29	29	22		23	22	23
As-D	mg/L	0.000118	0.000164	0.00022	0.000167	0.000135	0.000091	0.000109	0.000132	0.000135
As-T	mg/L	0.000118	0.000198	0.000199	0.000161	0.000145	0.000119	0.000126	0.000121	0.000105
B-D	mg/L	0.022	0.029	0.029	0.03	0.012	0.011	0.012	0.012	0.011
B-T	mg/L	0.023	0.026	0.028	0.03	0.012	0.013	<0.010	0.011	0.011
Ba-D	mg/L	0.00128	0.00199	0.00217	0.002	0.0014	0.00117	0.0011	0.0012	0.0013
Ba-T	mg/L	0.00134	0.00221	0.00213	0.00191	0.00153	0.00126	0.00122	0.00119	0.00123
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	9.6	10.6	10.7	9.87	8.44	7.77	8.08	7.8	7.7
Ca-T	mg/L	9.48	10.7	10.1	10.1	8.56	8.03	7.63	7.18	6.89
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000178	0.0000206	0.000026	0.0000306	0.0000166	0.00002	0.0000202	0.0000177	0.0000176
Co-T	mg/L	0.0000182	0.000026	0.0000204	0.000019	0.0000263	0.0000301	0.0000334	0.000024	0.0000234
Cond-F	uS/cm	115.1	102.1	101.5	105.7	63.5	79.2	55.9	56.5	52.1
Cr-D	mg/L	<0.00010	<0.00010	0.00012	0.00012	0.00011	0.00011	0.00012	<0.00010	0.0001
Cr-T	mg/L	<0.00010	0.0001	<0.00010	<0.00010	0.00013	<0.00010	0.00011	0.0001	0.0001
Cu-D	mg/L	0.000604	0.00049	0.000547	0.000611	0.000603	0.000734	0.000617	0.000616	0.000602
Cu-T	mg/L	0.000656	0.000988	0.000516	0.000512	0.000676	0.000657	0.000681	0.00061	0.000593
DOC	mg/L	2.3	2.7	2.8	2.8	2.9	2.3	3.1	2.9	3.1
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0181	0.0337	0.0581	0.0605	0.0219	0.0207	0.0213	0.0224	0.0238
Fe-T	mg/L	0.0291	0.0559	0.0394	0.0344	0.0404	0.045	0.0503	0.0406	0.0325
Hard-D	mg/L	28.5	32.7	32.5	30	25.2	23.2	23.9	23.4	23.2
Hard-T	mg/L	28.1	32.7	30.8	30.9	25.5	23.9	22.6	21.5	20.7
K-D	mg/L	0.126	0.16	0.153	0.143	0.093	0.085	0.093	0.084	0.081
K-T	mg/L	0.121	0.155	0.15	0.154	0.095	0.087	0.08	<0.25	0.078
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.1	1.54	1.41	1.3	1	0.924	0.916	0.944	0.954
Mg-T	mg/L	1.08	1.43	1.34	1.37	0.996	0.929	0.862	0.87	0.855
Mn-D	mg/L	0.00257	0.00399	0.0045	0.0046	0.00177	0.00264	0.00294	0.00202	0.00152
Mn-T	mg/L	0.00323	0.00511	0.00379	0.00369	0.00279	0.00506	0.00398	0.00286	0.00205
Mo-D	mg/L	0.000176	0.00016	0.000172	0.000174	0.000213	0.000369	0.000232	0.000479	0.00059
Mo-T	mg/L	0.000155	0.000166	0.00023	0.000216	0.000173	0.000174	0.000162	0.000155	0.000164
Na-D	mg/L	4.9	6.88	5.89	6.33	1.72	1.74	1.62	2.27	1.52
Na-T	mg/L	4.92	5.99	5.72	6.56	1.72	1.73	1.56	2.04	1.41
Ni-D	mg/L	0.000058	0.000053	0.000092	0.000086	0.000062	0.00007	0.00006	0.000071	0.000079
Ni-T	mg/L	0.000082	0.000071	0.000058	0.000072	0.000075	0.000051	0.000088	<0.00010	0.000054
Pb-D	mg/L	<0.0000050	0.000005	0.0000058	0.0000831	0.0000086	<0.0000050	<0.0000050	0.0000058	0.0000085
Pb-T	mg/L	<0.0000050	0.0000059	<0.0000050	<0.0000050	<0.0000050	0.0000083	0.000015	<0.000020	<0.0000050
pH-F	pH Units	7.6	7.06	7.75	7.87	7.62	7.93	7.34	7.62	7.61
S-D	mg/L	3.8	6.2	6.1	5.1	<3.0	<3.0	<3.0	<3.0	<3.0
S-T	mg/L	3.5	5.9	5.9	5.6	<3.0	<3.0	<3.0	<3.0	<3.0
Se-D	mg/L	0.00006	0.000068	0.000044	0.000044	0.00005	0.000045	0.00005	0.000051	0.000051
Se-T	mg/L	0.00006	0.000049	<0.000040	<0.000040	0.000073	0.000069	0.000049	0.000047	0.000041
Si-D	mg/L	2.37	2.67	2.8	2.48	2.47	2.26	2.26	2.27	2.73
Si-T	mg/L	2.22	2.61	2.61	2.55	2.48	2.2	2.19	2.27	2.59
SO4-D	mg/L	11	19	18	18	7.3	5.5	4.8	6.4	4.7
Sr-D	mg/L	0.0311	0.0464	0.0483	0.0447	0.0259	0.0219	0.0196	0.0216	0.0208
Sr-T	mg/L	0.0302	0.0476	0.0483	0.046	0.0264	0.022	0.0205	0.0206	0.0196
Temp-F	C	4.429	4.4	4.1	4.4	2	3.9	4.7	6	6.2
Ti-D	mg/L	<0.00050	<0.00050	0.00108	0.00112	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	0.00096	<0.00050	<0.00050	0.00102	0.0007	0.00122	<0.0020	0.00073
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00045	0.00067	0.00044	0.00126	0.00122	0.00079	0.00063	0.00079	0.00473
Zn-T	mg/L	0.00034	0.00087	0.00078	0.00065	0.00023	0.00019	0.00171	<0.0010	0.00027

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Mid Quinsam Lake Outlet					
Stn.Code		WB	WB	WB	WB	WB	WB
Date		2026/02/09	2026/02/23	2026/02/25	2026/03/02	2026/03/04	2026/03/09
Acidity83	mg/L	<1.0		2.2		3.5	1.5
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Al-D	mg/L	0.0248	0.0276	0.0284	0.0241	0.0235	0.0236
Al-T	mg/L	0.0367	0.0399	0.0279	0.0353	0.0275	0.0292
Alk-T	mg/L	23	22	21	21	22	23
As-D	mg/L	0.000106	0.000145	0.000164	0.000135	0.000122	0.000114
As-T	mg/L	0.000122	0.000174	0.000156	0.000123	0.000089	0.000123
B-D	mg/L	<0.010	0.015	0.016	0.011	0.012	0.012
B-T	mg/L	0.013	0.013	0.011	0.014	0.012	0.013
Ba-D	mg/L	0.00108	0.00176	0.00162	0.00136	0.00138	0.0014
Ba-T	mg/L	0.00119	0.00174	0.00108	0.00143	0.00132	0.00145
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	7.5	9.86	8.07	7.9	8.48	8.91
Ca-T	mg/L	7.61	9.73	7.13	8.27	7.92	8.38
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000168	0.0000182	0.000017	0.000018	0.0000172	0.0000158
Co-T	mg/L	0.000021	0.0000271	0.0000166	0.0000198	0.000022	0.0000208
Cond-F	uS/cm	58.4	89.8	77.6	69.6	136.5	67.4
Cr-D	mg/L	0.00011	0.00011	0.00057	0.00046	0.0001	<0.00010
Cr-T	mg/L	0.00011	0.00011	0.0001	0.00032	<0.00010	0.0001
Cu-D	mg/L	0.000644	0.000754	0.000632	0.00065	0.000599	0.000538
Cu-T	mg/L	0.000615	0.000559	0.000534	0.00065	0.00059	0.000598
DOC	mg/L	3	2.6	2.6	2.6	2.6	2.2
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0176	0.0299	0.0305	0.0254	0.0234	0.0262
Fe-T	mg/L	0.0298	0.0564	0.0275	0.0379	0.031	0.0338
Hard-D	mg/L	22.2	29.8	24.6	23.8	25.4	26.7
Hard-T	mg/L	23	29.3	21.8	25	23.7	25.1
K-D	mg/L	0.078	0.107	0.092	0.087	0.081	0.087
K-T	mg/L	0.082	0.103	0.091	0.089	<0.25	0.084
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	0.838	1.25	1.08	0.998	1.03	1.08
Mg-T	mg/L	0.972	1.2	0.968	1.07	0.96	1.01
Mn-D	mg/L	0.00149	0.00399	0.00332	0.00282	0.00281	0.00276
Mn-T	mg/L	0.00222	0.00673	0.00167	0.00419	0.00352	0.00426
Mo-D	mg/L	0.000272	0.000166	0.00022	0.000312	0.000298	0.000279
Mo-T	mg/L	0.000152	0.000141	0.00036	0.00016	0.000146	0.000176
Na-D	mg/L	1.43	2.16	1.91	1.9	1.93	1.97
Na-T	mg/L	1.54	2.15	2.01	1.98	1.76	1.94
Ni-D	mg/L	0.00005	0.000076	0.000306	0.000204	0.000065	0.00006
Ni-T	mg/L	0.000069	0.00008	0.000054	0.000151	<0.00010	0.000069
Pb-D	mg/L	<0.0000050	0.0000801	<0.0000050	<0.0000050	<0.0000050	0.0000061
Pb-T	mg/L	0.0000057	<0.0000050	<0.0000050	0.0000113	<0.000020	<0.0000050
pH-F	pH Units	7.24	7.48	7.42	6.83	7	6.84
S-D	mg/L	<3.0	4.5	3.1	<3.0	<3.0	3.2
S-T	mg/L	<3.0	4.8	3.1	<3.0	<3.0	<3.0
Se-D	mg/L	0.000049	0.000048	<0.000040	0.000042	<0.000040	0.000052
Se-T	mg/L	<0.000040	0.000045	0.000042	0.00004	0.000053	0.000048
Si-D	mg/L	2.14	2.49	2.62	2.36	2.45	2.55
Si-T	mg/L	2.49	2.58	2.67	2.58	2.37	2.45
SO4-D	mg/L	6.3	13	10	8.5	7.8	9.2
Sr-D	mg/L	0.0195	0.0363	0.0313	0.0275	0.0278	0.0316
Sr-T	mg/L	0.0227	0.0371	0.0256	0.027	0.027	0.0296
Temp-F	C	6.4	2.6	3.6	4.7	6.5	5.7
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00064	0.0008	0.00056	0.00083	<0.0020	<0.00050
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	3.2	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00156	0.00135	0.00075	0.00035	0.00182	0.00154
Zn-T	mg/L	0.00022	0.0002	<0.00010	0.00019	<0.0010	0.00014

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Mid Quinsam Lake Outlet					
Stn.Code		WB	WB	WB	WB	WB	WB
Date		2026/03/11	2026/03/16	2026/03/18	2026/03/23	2026/03/25	2026/03/30
Acidity83	mg/L	1.3	<1.0	<1.0	<1.0	<1.0	1.8
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050
Al-D	mg/L	0.0244	0.0232	0.0237	0.0225	0.026	0.0222
Al-T	mg/L	0.0279	0.0269	0.0351	0.0319	0.0298	0.0279
Alk-T	mg/L	22	26	22	24	21	22
As-D	mg/L	0.000121	0.000136	0.000099	0.000138	0.000096	0.000116
As-T	mg/L	0.000105	0.000123	0.000095	0.000131	0.000087	0.000111
B-D	mg/L	0.013	0.015	<0.010	0.016	<0.010	<0.010
B-T	mg/L	0.014	0.014	<0.010	0.013	<0.010	0.011
Ba-D	mg/L	0.00147	0.00155	0.00108	0.00187	0.00107	0.0013
Ba-T	mg/L	0.00147	0.00153	0.00123	0.00179	0.00108	0.00135
Be-D	mg/L	<0.000010	<0.000010	<0.000010	0.00001	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	9	9.76	7.05	9.7	7.14	8.18
Ca-T	mg/L	8.83	9.49	7.36	9.32	7.38	8.3
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000177	0.0000207	0.000017	0.000019	0.000015	0.0000154
Co-T	mg/L	0.0000202	0.0000225	0.0000198	0.000025	0.0000183	0.0000203
Cond-F	uS/cm	67	72.6	88.5	55.4	59.8	68
Cr-D	mg/L	<0.00010	0.00012	0.00011	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.0001	0.0001	0.00011	0.00012	<0.00010	0.00012
Cu-D	mg/L	0.000599	0.000558	0.000599	0.000514	0.000607	0.000601
Cu-T	mg/L	0.000598	0.00063	0.000643	0.00082	0.000643	0.00069
DOC	mg/L	2.5	2.6	2.5	2.6	2.4	2.5
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0245	0.0243	0.0155	0.0272	0.0156	0.0165
Fe-T	mg/L	0.0355	0.0366	0.028	0.0479	0.0236	0.0268
Hard-D	mg/L	27.2	29.5	21	29.4	21.5	24.3
Hard-T	mg/L	26.7	28.5	21.8	28	21.9	24.5
K-D	mg/L	0.093	0.098	0.065	0.1	0.069	0.082
K-T	mg/L	0.089	0.092	0.071	<0.25	0.068	0.081
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.15	1.24	0.831	1.26	0.883	0.932
Mg-T	mg/L	1.13	1.16	0.83	1.15	0.841	0.92
Mn-D	mg/L	0.00263	0.00442	0.00161	0.00426	0.00193	0.00208
Mn-T	mg/L	0.00414	0.00583	0.00249	0.00682	0.00263	0.00314
Mo-D	mg/L	0.000246	0.000432	0.000248	0.000445	0.000181	0.000208
Mo-T	mg/L	0.000174	0.000184	0.000169	0.000177	0.000182	0.000193
Na-D	mg/L	2.19	2.37	1.16	2.36	1.25	1.51
Na-T	mg/L	2.16	2.33	1.28	2.34	1.24	1.49
Ni-D	mg/L	0.000074	0.000067	0.000059	0.000073	0.000052	0.000055
Ni-T	mg/L	0.000063	0.000077	0.000061	0.00019	0.000062	0.000066
Pb-D	mg/L	0.0000061	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000020	<0.0000050	0.0000089
pH-F	pH Units	6.75	7.82	7.1	7.54	7.13	7.52
S-D	mg/L	3.2	3.8	<3.0	4	<3.0	<3.0
S-T	mg/L	3.1	3.6	<3.0	3.7	<3.0	<3.0
Se-D	mg/L	0.00004	0.00004	0.000055	0.000045	0.000054	0.000052
Se-T	mg/L	0.000049	<0.000040	0.000042	0.000045	0.000048	0.000051
Si-D	mg/L	2.57	2.6	2.19	2.46	2.16	2.36
Si-T	mg/L	2.43	2.45	2.34	2.55	2.22	2.35
SO4-D	mg/L	9.5	10	5.3	13	4.8	7.3
Sr-D	mg/L	0.0309	0.0332	0.0189	0.0401	0.0195	0.0276
Sr-T	mg/L	0.0312	0.0316	0.0195	0.0338	0.0181	0.0272
Temp-F	C	5	5.1	7.3	6.8	6.5	6.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	0.00059	<0.0020	<0.00050	<0.00050
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00103	0.00242	0.00088	0.00153	0.00067	0.00051
Zn-T	mg/L	<0.00010	0.0003	0.00015	<0.0010	0.00016	0.00052

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam								
Station Name		Quinsam River Upstream						
Stn.Code		QRUS	QRUS	QRUS	QRUS	QRUS	QRUS	QRUS
Date		2025/04/28	2025/04/29	2025/04/30	2025/05/01	2025/12/23	2025/12/24	2025/12/28
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	1.3	1.5	1.9
Ag-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000050	<0.000050
Al-D	mg/L	0.0118	0.0119	0.0124	0.0112	0.0216	0.021	0.0222
Al-T	mg/L	0.0180	0.0192	0.0171	0.0186	0.033	0.0417	0.0310
Alk-T	mg/L	31	30	29	29	28	29	33
As-D	mg/L	0.00018	0.00019	0.000214	0.000179	0.000136	0.000149	0.000169
As-T	mg/L	0.00010	0.00012	0.00013	0.00015	0.000293	0.00017	0.000182
B-D	mg/L	<0.050	<0.050	0.030	0.023	0.025	0.022	0.030
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.019	0.023	0.033
Ba-D	mg/L	0.0019	0.0018	0.00189	0.00141	0.00227	0.00222	0.00296
Ba-T	mg/L	0.0017	0.0018	0.0017	0.0015	0.00261	0.00228	0.00306
Be-D	mg/L	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0010	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.000010	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	9.38	10.0	9.59	9.09	8.63	9.38	10.9
Ca-T	mg/L	9.16	9.16	8.52	8.76	8.84	9.58	10.9
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.0000061	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	<0.00020	<0.00020	0.0000090	0.0000120	0.0000156	0.0000207	0.0000182
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.000046	0.0000306	0.0000224
Cond-F	uS/cm		95	90.2	84.3	113.3	90.5	109.1
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00016	0.00012	0.00011
Cu-D	mg/L	0.00052	0.00051	0.000499	0.000521	0.000541	0.000584	0.000594
Cu-T	mg/L	0.00065	<0.00050	<0.00050	0.00056	0.00075	0.000916	0.000634
DOC	mg/L	2.1	2.1	2.1	2.1	2.7	2.7	2.4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0184	0.0181	0.0173	0.0189	0.0184	0.0197	0.0235
Fe-T	mg/L	0.033	0.033	0.030	0.039	0.0844	0.0512	0.0363
Hard-D	mg/L	28.4	29.9	28.9	27.2	26.2	28.1	32.3
Hard-T	mg/L	27.4	27.5	25.7	26.1	26.1	29	33.1
K-D	mg/L	0.136	0.133	0.125	0.112	0.142	0.142	0.190
K-T	mg/L	0.128	0.123	0.113	0.110	<0.25	0.15	0.191
Li-D	mg/L	<0.0020	<0.0020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.22	1.17	1.19	1.09	1.13	1.15	1.22
Mg-T	mg/L	1.10	1.12	1.06	1.03	0.99	1.24	1.43
Mn-D	mg/L	0.0017	0.0017	0.00171	0.00189	0.00183	0.00159	0.00196
Mn-T	mg/L	0.0048	0.0050	0.0047	0.0054	0.00852	0.00364	0.00320
Mo-D	mg/L	<0.0010	<0.0010	0.000219	0.000197	0.000407	0.000176	0.000187
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00017	0.000171	0.000180
Na-D	mg/L	6.47	6.12	6.08	4.84	5.52	5	7.56
Na-T	mg/L	5.81	5.68	5.46	4.63	4.77	5.62	8.40
Ni-D	mg/L	<0.0010	<0.0010	0.000087	0.000074	0.000057	0.000058	0.000064
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0001	0.000082	0.000076
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	0.0000070	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00002	<0.0000050	<0.0000050
pH-F	pH Units		7.83	7.56	7.73	7.66	7.64	7.85
S-D	mg/L	4.7	4.9	4.5	3.2	4.2	4.1	6.3
S-T	mg/L	3.4	3.4	3.9	<3.0	4	4.5	6.7
Se-D	mg/L	<0.00010	<0.00010	0.000056	0.000056	0.000059	0.000053	0.000052
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000059	0.000057	0.000049
Si-D	mg/L	1.89	2.03	2.09	1.79	2.24	2.2	2.25
Si-T	mg/L	1.93	1.90	1.68	1.75	1.87	2.26	2.32
SO4-D	mg/L	13	13	13	13	14	15	22
Sr-D	mg/L	0.0384	0.0374	0.0387	0.0313	0.0355	0.0344	0.0476
Sr-T	mg/L	0.0350	0.0359	0.0323	0.0296	0.0317	0.0367	0.0480
Temp-F	C		13.33	14.6	14.9	4.697	4.6	3.755
Ti-D	mg/L	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	0.001	0.00058
Ti-D	mg/L	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Ti-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	2.4	1.6	<1.0	<1.0	<1.0
Zn-D	mg/L	0.0072	<0.0050	0.00244	0.00032	0.00221	0.00063	0.00057
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.00013	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam								
Station Name		Quinsam River Upstream						
Stn.Code		QRUS	QRUS	QRUS	QRUS	QRUS	QRUS	QRUS
Date		2025/12/30	2025/12/31	2026/01/03	2026/01/06	2026/01/07	2026/01/08	2026/01/19
Acidity83	mg/L	1.2	2.2	<1.0	1	<1.0	2.7	1.3
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0198	0.0209	0.0197	0.0224	0.0216	0.02	0.0241
Al-T	mg/L	0.0302	0.0273	0.0271	0.0267	0.028	0.0284	0.0456
Alk-T	mg/L	30	32	32	33	34	33	25
As-D	mg/L	0.000169	0.000169	0.000144	0.00016	0.000175	0.000157	0.000141
As-T	mg/L	0.000173	0.000169	0.00015	0.000185	0.000178	0.000166	0.000156
B-D	mg/L	0.029	0.028	0.032	0.037	0.035	0.039	0.016
B-T	mg/L	0.028	0.031	0.031	0.033	0.034	0.039	0.016
Ba-D	mg/L	0.00271	0.00248	0.00235	0.00255	0.00241	0.00259	0.0018
Ba-T	mg/L	0.00241	0.00249	0.00251	0.00253	0.00222	0.00255	0.00197
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.7	10.5	10.9	11.3	10.9	10.4	8.66
Ca-T	mg/L	9.82	10.2	10.7	10.9	9.91	10.6	8.7
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000163	0.0000173	0.0000151	0.0000179	0.0000151	0.0000196	0.0000157
Co-T	mg/L	0.0000217	0.0000197	0.0000207	0.0000213	0.000022	0.0000219	0.0000302
Cond-F	uS/cm	111.3	132.4		128.4	142.5	135.5	103.8
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001
Cr-T	mg/L	0.00011	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Cu-D	mg/L	0.000602	0.000693	0.000543	0.000508	0.000513	0.000533	0.00061
Cu-T	mg/L	0.000645	0.000606	0.000595	0.000567	0.000563	0.000575	0.000711
DOC	mg/L	2.4	2.4	2.2	2.4	2.6	2.6	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0211	0.022	0.022	0.0253	0.026	0.0261	0.0171
Fe-T	mg/L	0.0347	0.0344	0.0356	0.0417	0.039	0.0425	0.049
Hard-D	mg/L	31.7	31.5	32.8	34.7	33	31.5	25.8
Hard-T	mg/L	29.5	30.9	32.3	33	30.3	32.1	25.9
K-D	mg/L	0.175	0.169	0.168	0.202	0.188	0.187	0.115
K-T	mg/L	0.161	0.165	0.176	0.182	0.178	0.19	0.119
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.18	1.27	1.36	1.58	1.42	1.36	1.01
Mg-T	mg/L	1.22	1.32	1.35	1.41	1.34	1.39	1.02
Mn-D	mg/L	0.0017	0.00174	0.00194	0.00259	0.00241	0.00249	0.00141
Mn-T	mg/L	0.00297	0.00295	0.00331	0.00347	0.00358	0.00372	0.00412
Mo-D	mg/L	0.000177	0.000178	0.000169	0.000165	0.000278	0.000289	0.000231
Mo-T	mg/L	0.000178	0.000176	0.000163	0.000168	0.000173	0.000173	0.000157
Na-D	mg/L	7.02	6.98	8.47	10	9.34	9.64	3.44
Na-T	mg/L	6.88	6.92	8.28	8.68	8.36	9.28	3.49
Ni-D	mg/L	0.000063	0.000063	0.000054	0.00005	0.000054	0.000069	0.000058
Ni-T	mg/L	0.000072	0.000072	0.000066	0.000062	0.000054	0.000066	0.000072
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000267
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000079
pH-F	pH Units	7.7	6.87		6.81	7.07	7.17	6.62
S-D	mg/L	5.8	5.4	6	7.4	7	6.7	<3.0
S-T	mg/L	5.1	5.5	6.3	6.8	6.4	6.7	<3.0
Se-D	mg/L	0.000057	0.000047	0.00005	0.000077	0.000055	0.000042	0.000055
Se-T	mg/L	0.000052	0.00005	0.000056	0.000058	0.000043	0.000055	0.000079
Si-D	mg/L	2.26	2.47	2.31	2.51	2.44	2.27	2.3
Si-T	mg/L	2.22	2.35	2.37	2.37	2.31	2.4	2.33
SO4-D	mg/L	18	18	20	22	20	21	9.1
Sr-D	mg/L	0.045	0.0425	0.0433	0.0507	0.0482	0.05	0.0274
Sr-T	mg/L	0.0405	0.04	0.0451	0.0492	0.0477	0.0497	0.0272
Temp-F	C	4.142	4.54		3.963	3.881	3.491	3.891
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00062	<0.00050	<0.00050	<0.00050	0.00051	<0.00050	0.00128
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	2	<1.0	<1.0
Zn-D	mg/L	0.00076	0.00071	0.0004	0.00055	0.00109	0.00118	0.00076
Zn-T	mg/L	<0.00010	0.00014	0.0001	<0.00010	0.0001	0.00013	0.00013

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam									
Station Name		Quinsam River Upstream							
Stn.Code		QRUS	QRUS	QRUS	QRUS	QRUS	QRUS	QRUS	QRUS
Date		2026/01/26	2026/01/29	2026/02/02	2026/02/05	2026/02/09	2026/02/23	2026/02/25	2026/03/02
Acidity83	mg/L		1.6	1.4		<1.0		1.8	
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0219	0.021	0.0271	0.0293	0.0244	0.0305	0.0272	0.0235
Al-T	mg/L	0.0332	0.0292	0.0485	0.0383	0.0356	0.0453	0.025	0.033
Alk-T	mg/L		28	26	24	24	26	23	26
As-D	mg/L	0.000117	0.000138	0.000131	0.000131	0.000129	0.000184	0.000189	0.000177
As-T	mg/L	0.000177	0.000145	0.000139	0.000114	0.000142	0.000212	0.000188	0.000166
B-D	mg/L	0.021	0.021	0.013	0.015	0.012	0.021	0.02	0.016
B-T	mg/L	0.021	0.018	0.015	0.015	0.017	0.018	0.015	0.02
Ba-D	mg/L	0.00218	0.00216	0.00125	0.00158	0.00145	0.00235	0.00207	0.00191
Ba-T	mg/L	0.00229	0.00202	0.00158	0.0015	0.00154	0.0024	0.00141	0.00198
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.028
Ca-D	mg/L	9.08	9.29	7.78	8.23	8.01	10.6	8.89	8.83
Ca-T	mg/L	8.92	8.89	8.26	7.49	7.81	10.1	7.71	8.87
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000183	0.0000159	0.0000168	0.0000177	0.0000151	0.0000203	0.0000194	0.0000187
Co-T	mg/L	0.0000284	0.0000242	0.0000277	0.000024	0.0000212	0.0000234	0.0000164	0.0000195
Cond-F	uS/cm	203.2	110.6	72.3	67.3	60.2	96.6	93.8	81.6
Cr-D	mg/L	<0.00010	0.0001	<0.00010	0.00011	0.00011	<0.00010	0.0005	0.00026
Cr-T	mg/L	0.00012	<0.00010	0.00012	0.00011	0.00011	0.00011	<0.00010	0.00121
Cu-D	mg/L	0.000687	0.000584	0.00059	0.000641	0.000634	0.000514	0.000643	0.000573
Cu-T	mg/L	0.000676	0.000629	0.000678	0.000637	0.000611	0.000566	0.000522	0.000832
DOC	mg/L	2.1	3	2.9	2.9	3	2.7	2.6	2.5
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0194	0.0209	0.0211	0.0185	0.0182	0.0325	0.0293	0.0251
Fe-T	mg/L	0.0385	0.0337	0.051	0.031	0.0286	0.0555	0.0284	0.0405
Hard-D	mg/L	27.1	27.6	23.3	24.8	23.6	32.2	27.1	26.6
Hard-T	mg/L	26.8	26.4	24.5	22.4	23.7	30.6	23.7	26.9
K-D	mg/L	0.137	0.14	0.092	0.106	0.094	0.143	0.118	0.115
K-T	mg/L	0.136	0.126	0.107	0.1	0.1	0.139	0.118	0.115
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.08	1.07	0.946	1.02	0.88	1.39	1.19	1.11
Mg-T	mg/L	1.1	1.02	0.948	0.901	1.01	1.32	1.07	1.16
Mn-D	mg/L	0.00177	0.002	0.00172	0.00137	0.00144	0.00317	0.00255	0.00213
Mn-T	mg/L	0.00413	0.00315	0.00389	0.00251	0.00203	0.00428	0.00101	0.00312
Mo-D	mg/L	0.000204	0.000216	0.000182	0.000235	0.000288	0.000206	0.00016	0.000268
Mo-T	mg/L	0.00018	0.000153	0.000161	0.000165	0.000192	0.000143	0.000226	0.000181
Na-D	mg/L	4.71	4.63	2.63	3.01	2.3	3.59	3.1	3.23
Na-T	mg/L	4.43	4.46	2.99	2.83	2.53	3.36	3.2	3.31
Ni-D	mg/L	0.000073	0.000066	0.00006	0.00007	0.000058	0.000072	0.000274	0.000134
Ni-T	mg/L	0.000092	0.000078	0.000081	0.000062	0.000072	0.000098	0.00006	0.000485
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000053	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	0.0000067	0.0000053	<0.0000050	<0.0000050	<0.0000050	0.0000066	<0.0000050	<0.0000050
pH-F	pH Units	6.46	7.4	6.76	6.81	7.24	7.02	6.92	6.86
S-D	mg/L	3.7	3.9	<3.0	<3.0	<3.0	5.3	4.1	3.9
S-T	mg/L	3.3	3.3	<3.0	<3.0	<3.0	5.5	3.9	4
Se-D	mg/L	0.000046	0.000054	0.000053	0.000062	0.000044	<0.000040	0.000041	0.000055
Se-T	mg/L	0.000067	0.00005	0.000059	0.000053	<0.000040	0.000044	0.000051	0.000054
Si-D	mg/L	2.35	2.34	2.26	2.51	2.14	2.67	2.6	2.45
Si-T	mg/L	2.19	2.24	2.45	2.34	2.44	2.69	2.72	2.57
SO4-D	mg/L	11	11	6.8	6.3	6.8	17	12	11
Sr-D	mg/L	0.0314	0.0307	0.0216	0.0236	0.0226	0.0419	0.0369	0.0333
Sr-T	mg/L	0.031	0.0305	0.0243	0.022	0.0248	0.0416	0.0301	0.0321
Temp-F	C	4.445	4.67	5.242	5.28	5.64	3.419	3.823	3.451
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00067	0.00055	0.00124	0.00094	0.00078	0.00085	<0.00050	0.00051
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.2	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00096	0.00082	0.00026	0.00144	0.00073	0.00084	0.00055	0.00026
Zn-T	mg/L	0.00017	0.00018	0.0001	0.00011	0.00015	0.00014	<0.00010	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam								
Station Name		Quinsam River Upstream						
Stn.Code		QRUS	QRUS	QRUS	QRUS	QRUS	QRUS	QRUS
Date		2026/03/04	2026/03/09	2026/03/11	2026/03/16	2026/03/18	2026/03/23	2026/03/25
Acidity83	mg/L	2.2	1.5	1.6	<1.0	<1.0	<1.0	1.4
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0233	0.0211	0.0243	0.0228	0.0256	0.0236	0.0238
Al-T	mg/L	0.0314	0.0305	0.0283	0.0312	0.0413	0.0345	0.0323
Alk-T	mg/L	25	24	26	27	25	22	23
As-D	mg/L	0.000179	0.000187	0.000212	0.00021	0.000203	0.000125	0.000125
As-T	mg/L	0.000181	0.000221	0.0002	0.000193	0.000227	0.000114	0.000128
B-D	mg/L	0.019	0.021	0.023	0.024	0.025	0.011	0.016
B-T	mg/L	0.02	0.02	0.023	0.024	0.028	0.011	0.013
Ba-D	mg/L	0.00209	0.00214	0.00247	0.00243	0.00268	0.00136	0.00168
Ba-T	mg/L	0.00263	0.00216	0.00246	0.00254	0.00297	0.0014	0.00179
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	9.35	9.32	10.2	10.6	11.2	7.41	8.18
Ca-T	mg/L	9.23	9.36	10.3	9.7	11.2	7.32	8.49
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000154	0.0000146	0.0000171	0.0000183	0.0000199	0.000016	0.000015
Co-T	mg/L	0.0000205	0.000022	0.0000208	0.000021	0.0000233	0.0000211	0.0000189
Cond-F	uS/cm	51.2	81.1	88	85.9	105	66.8	81.4
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010
Cr-T	mg/L	0.00025	<0.00010	<0.00010	<0.00010	0.00012	0.0001	0.0001
Cu-D	mg/L	0.00055	0.000522	0.000568	0.000549	0.000544	0.000576	0.00058
Cu-T	mg/L	0.000572	0.000576	0.000587	0.0007	0.000586	0.000663	0.000631
DOC	mg/L	<0.50	2.4	2.4	2.5	2.8	2.6	2.4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0243	0.0245	0.0247	0.0247	0.0307	0.0155	0.0155
Fe-T	mg/L	0.0366	0.0404	0.0361	0.0412	0.0567	0.0304	0.0293
Hard-D	mg/L	28.2	28.4	31.4	32.4	34.4	22.2	24.6
Hard-T	mg/L	28.1	28.4	31.6	30.3	34.5	21.8	25.4
K-D	mg/L	0.116	0.121	0.14	0.146	0.149	0.079	0.097
K-T	mg/L	0.125	0.128	0.141	<0.25	0.15	0.079	0.104
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.18	1.23	1.43	1.44	1.55	0.89	1
Mg-T	mg/L	1.22	1.22	1.41	1.47	1.58	0.852	1.01
Mn-D	mg/L	0.00206	0.00201	0.002	0.00312	0.00352	0.00145	0.00166
Mn-T	mg/L	0.0034	0.00401	0.00312	0.00468	0.00517	0.00271	0.00266
Mo-D	mg/L	0.00029	0.00069	0.00026	0.000203	0.00021	0.00021	0.000188
Mo-T	mg/L	0.000177	0.000154	0.000192	0.000182	0.000287	0.000165	0.000166
Na-D	mg/L	3.68	3.62	4.59	4.84	4.14	1.99	2.62
Na-T	mg/L	3.99	3.66	4.68	4.91	4.27	1.85	3.11
Ni-D	mg/L	0.00006	0.000058	0.00007	0.000084	0.00009	0.000051	0.000057
Ni-T	mg/L	0.000049	0.000078	0.00008	0.00015	0.000111	0.000066	0.000058
Pb-D	mg/L	<0.0000050	<0.0000050	0.0000061	<0.0000050	0.0000054	0.000007	<0.0000050
Pb-T	mg/L	0.000603	<0.0000050	<0.0000050	<0.000020	0.0000096	<0.0000050	<0.0000050
pH-F	pH Units	7.02	7.04	7.09	6.96		6.69	7.42
S-D	mg/L	4.1	5.1	5.4	5.4	6.2	<3.0	3
S-T	mg/L	4.1	3.8	5.4	4.9	6.8	<3.0	3.2
Se-D	mg/L	<0.000040	0.000046	0.000044	0.00005	<0.000040	0.000051	0.000047
Se-T	mg/L	<0.000040	0.000043	0.000053	0.000051	<0.000040	0.000045	0.000052
Si-D	mg/L	2.47	2.66	2.62	2.57	2.56	2.23	2.19
Si-T	mg/L	2.39	2.54	2.64	2.52	2.96	2.3	2.29
SO4-D	mg/L	11	14	16	16	21	6	9
Sr-D	mg/L	0.0377	0.0422	0.0444	0.0428	0.0513	0.0227	0.0294
Sr-T	mg/L	0.04	0.0416	0.0446	0.0429	0.0543	0.0212	0.03
Temp-F	C	5.02	6.138	5.2	5.125	5.8	6.328	5.943
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00054	0.00054	<0.00050	<0.0020	0.00105	0.00062	0.00067
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00055	0.00233	0.001	0.0006	0.00032	0.00087	0.00081
Zn-T	mg/L	0.00021	0.00014	<0.00010	<0.0010	0.00058	0.00019	0.00013

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS		QRDS	QRDS	QRDS	QRDS
Date		2025/04/28	2025/04/29	2025/04/30	2025/05/01	2025/11/24	2025/11/26
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000050	<0.000020
Al-D	mg/L	0.0112	0.0123	0.0119	0.0111	0.0174	0.0150
Al-T	mg/L	0.0186	0.0189	0.0179	0.0394	0.0227	0.0254
Alk-T	mg/L	43	41	42	41	79	
As-D	mg/L	0.00049	0.00047	0.000538	0.000471	0.000220	0.00020
As-T	mg/L	0.00071	0.00047	0.00047	0.00051	0.000291	0.00032
B-D	mg/L	0.062	0.063	0.067	0.053	0.146	0.107
B-T	mg/L	0.060	0.056	<0.050	0.054	0.152	0.124
Ba-D	mg/L	0.0030	0.0028	0.00307	0.00317	0.00509	0.0045
Ba-T	mg/L	0.0033	0.0027	0.0025	0.0026	0.00608	0.0049
Be-D	mg/L	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0010
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Ca-D	mg/L	13.1	14.2	14.0	13.8	28.9	23.9
Ca-T	mg/L	13.0	12.7	12.0	12.6	30.9	24.7
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.000010
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Co-D	mg/L	<0.00020	<0.00020	0.0000400	0.0000460	0.0000420	<0.00020
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000388	<0.00020
Cond-F	uS/cm	185.6	186.5	167.7	164.5	427.7	435.5
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	0.00015	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00013	<0.0010
Cu-D	mg/L	0.00052	0.00051	0.000498	0.000514	0.000502	0.00047
Cu-T	mg/L	0.00166	0.00055	0.00054	0.00066	0.000495	0.00093
DOC	mg/L		2.1	2.1	2.1	2.6	
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Fe-D	mg/L	0.139	0.162	0.158	0.149	0.0611	0.0666
Fe-T	mg/L	0.203	0.230	0.219	0.229	0.644	0.607
Hard-D	mg/L	39.7	42.7	42.4	41.3	87.2	71.6
Hard-T	mg/L	39.1	38.6	36.3	37.8	92.9	75.0
K-D	mg/L	0.292	0.308	0.311	0.289	0.873	0.680
K-T	mg/L	0.288	0.288	0.258	0.281	0.910	0.707
Li-D	mg/L	<0.0020	<0.0020	0.00107	0.00085	0.00221	<0.0020
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00213	<0.0020
Mg-D	mg/L	1.66	1.74	1.83	1.67	3.64	2.88
Mg-T	mg/L	1.63	1.66	1.56	1.52	3.79	3.22
Mn-D	mg/L	0.0254	0.0282	0.0290	0.0285	0.106	0.0759
Mn-T	mg/L	0.0259	0.0292	0.0260	0.0280	0.114	0.0832
Mo-D	mg/L	<0.0010	<0.0010	0.00192	0.000781	0.000220	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000184	<0.0010
Na-D	mg/L	16.5	17.2	17.6	15.9	50.2	36.6
Na-T	mg/L	15.7	15.5	14.7	14.6	53.7	41.3
Ni-D	mg/L	<0.0010	<0.0010	0.000120	0.000137	0.000065	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000078	<0.0010
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	0.0000100	<0.0000050	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.0000050	<0.00020
pH-F	pH Units	7.77	7.83	7.54	7.73	7.49	7.56
S-D	mg/L	12.1	12.7	13.8	10.3	41.8	32.4
S-T	mg/L	10.0	11.8	9.5	9.5	39.7	38.4
Se-D	mg/L	<0.00010	<0.00010	0.000042	0.000053	0.000049	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000054	<0.00010
Si-D	mg/L	1.94	2.01	2.14	1.86	2.61	2.50
Si-T	mg/L	2.02	1.91	1.72	1.76	2.60	2.47
SO4-D	mg/L	35	35	32	33	97	
Sr-D	mg/L	0.0804	0.0853	0.0867	0.0755	0.240	0.196
Sr-T	mg/L	0.0779	0.0784	0.0711	0.0713	0.255	0.185
Temp-F	C	12.8	13.7	13.7	14.2	7.492	7.483
Ti-D	mg/L	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.000010
TSS	mg/L	1.2	<1.0	1.6	1.6	<1.0	1.6
Zn-D	mg/L	<0.0050	<0.0050	0.00355	0.00166	0.00094	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00044	<0.0050

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS	QRDS	QRDS	QRDS	QRDS	QRDS
Date		2025/11/27	2025/11/28	2025/11/29	2025/12/01	2025/12/03	2025/12/04
Acidity83	mg/L						
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.0000050	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.0000050	<0.000020
Al-D	mg/L	0.0154	0.0172	0.0175	0.0191	0.0181	0.0173
Al-T	mg/L	0.0232	0.025	0.022	0.0254	0.0216	0.0229
Alk-T	mg/L						
As-D	mg/L	0.00017	0.00019	0.0002	0.00019	0.000186	0.00017
As-T	mg/L	0.00023	0.00022	0.00022	0.00019	0.000198	0.00021
B-D	mg/L	0.054	0.063	0.074	<0.050	0.053	<0.050
B-T	mg/L	0.06	0.064	0.077	<0.050	0.053	<0.050
Ba-D	mg/L	0.0031	0.0032	0.0035	0.0028	0.00308	0.0031
Ba-T	mg/L	0.0035	0.0033	0.0034	0.0026	0.00313	0.0032
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0010
Br-D	mg/L	0.114					
Ca-D	mg/L	15.8	15.7	19.1	12.3	14.0	12.8
Ca-T	mg/L	16.3	16	17	11	13.9	13.8
Carb	mg/L						
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.000010
Cl-D	mg/L	<1.0					
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000258	<0.00020
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000270	<0.00020
Cond-F	uS/cm	294	290.3	255.3	162.9	291.2	182.2
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00013	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00013	<0.0010
Cu-D	mg/L	0.00053	0.00051	0.00053	0.0006	0.000490	0.00043
Cu-T	mg/L	0.00069	0.00099	0.00064	0.00057	0.000492	0.00065
DOC	mg/L	3.8					
F-D	mg/L	<0.050					
Fe-D	mg/L	0.0442	0.0347	0.0372	0.0238	0.0265	0.0243
Fe-T	mg/L	0.291	0.263	0.253	0.054	0.0757	0.090
Hard-D	mg/L	47.4	48	57.2	37.1	42.2	39.4
Hard-T	mg/L	48.8	48.5	51.8	34.1	41.9	41.8
K-D	mg/L	0.364	0.393	0.457	0.214	0.282	0.286
K-T	mg/L	0.391	0.373	0.427	0.198	0.280	0.297
Li-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00063	<0.0020
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00065	<0.0020
Mg-D	mg/L	1.94	2.15	2.3	1.55	1.73	1.79
Mg-T	mg/L	1.98	2.1	2.29	1.59	1.73	1.76
Mn-D	mg/L	0.0327	0.0334	0.0437	0.0089	0.0187	0.0196
Mn-T	mg/L	0.0375	0.034	0.0397	0.0096	0.0196	0.0222
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000175	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000168	<0.0010
Na-D	mg/L	18.4	19.4	23.2	8.9	13.7	14.0
Na-T	mg/L	19.1	20.4	22.3	8.79	13.7	14.9
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000089	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000073	<0.0010
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000088	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.0000050	<0.00020
pH-F	pH Units	7.62	7.64	7.74	8.06	7.78	7.76
S-D	mg/L	15.1	15.6	17.6	8.8	10.9	11.5
S-T	mg/L	16	15	16.9	7.2	11.0	11.5
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000048	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000053	<0.00010
Si-D	mg/L	2.19	2.35	2.72	2.63	2.44	2.21
Si-T	mg/L	2.21	2.52	2.3	2.27	2.48	2.39
SO4-D	mg/L	65		50	29	33	45
Sr-D	mg/L	0.102	0.109	0.124	0.0574	0.0774	0.0795
Sr-T	mg/L	0.106	0.106	0.115	0.0561	0.0792	0.0843
Temp-F	C	7.169	6.401	5.668	6.17	6.56	6.4
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.000010
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00067	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00022	<0.0050

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam						
Station Name		Quinsam River Downstream				
Stn.Code		QRDS	QRDS	QRDS	QRDS	QRDS
Date		2025/12/05	2025/12/06	2025/12/07	2025/12/08	2025/12/09
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	0.0000051	<0.0000050	<0.0000050
Al-D	mg/L	0.0191	0.0178	0.0183	0.0164	0.018
Al-T	mg/L	0.0242	0.0231	0.0233	0.0264	0.029
Alk-T	mg/L		37	37	62	29
As-D	mg/L	0.000178	0.000198	0.000197	0.00023	0.000206
As-T	mg/L	0.000207	0.000214	0.000219	0.000326	0.000223
B-D	mg/L	0.049	0.036	0.035	0.107	0.064
B-T	mg/L	0.048	0.038	0.035	0.103	0.034
Ba-D	mg/L	0.00324	0.00296	0.00288	0.00443	0.00322
Ba-T	mg/L	0.00335	0.00308	0.00294	0.00507	0.00247
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	13.9	12.5	12.1	21.2	16.1
Ca-T	mg/L	13.8	12.9	12.5	23.8	12.3
Carb	mg/L		<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000287	0.0000256	0.0000284	0.000064	0.0000423
Co-T	mg/L	0.0000337	0.00003	0.0000311	0.0000849	0.000035
Cond-F	uS/cm	344.5	243	290.9	480	404.3
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cu-D	mg/L	0.000579	0.00056	0.000579	0.000516	0.000534
Cu-T	mg/L	0.000636	0.00061	0.000597	0.000629	0.000611
DOC	mg/L		2.5	2.6	2.4	2.6
F-D	mg/L		<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0284	0.0288	0.0281	0.0533	0.0398
Fe-T	mg/L	0.108	0.0778	0.0952	0.47	0.0965
Hard-D	mg/L	42	37.6	36.6	63.7	48.9
Hard-T	mg/L	42	39.1	37.7	72.3	37
K-D	mg/L	0.291	0.25	0.255	0.63	0.388
K-T	mg/L	0.293	0.26	0.257	0.75	0.201
Li-D	mg/L	0.00055	<0.00050	<0.00050	0.00172	0.00088
Li-T	mg/L	0.00056	<0.00050	<0.00050	0.00169	<0.00050
Mg-D	mg/L	1.8	1.58	1.57	2.63	2.11
Mg-T	mg/L	1.81	1.69	1.59	3.09	1.52
Mn-D	mg/L	0.0197	0.0146	0.0162	0.0629	0.0363
Mn-T	mg/L	0.0213	0.0166	0.0178	0.0815	0.0149
Mo-D	mg/L	0.000185	0.000191	0.000193	0.000189	0.000169
Mo-T	mg/L	0.000176	0.000179	0.000174	0.000183	0.000167
Na-D	mg/L	14.8	11.1	11.3	33	19.4
Na-T	mg/L	14.6	11.5	11.4	37.7	8.81
Ni-D	mg/L	0.000096	0.000079	0.000074	0.00012	0.000108
Ni-T	mg/L	0.000093	0.000084	0.000086	0.000149	0.000084
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	0.0000055	0.0000053	0.0000053	0.0000054	0.0000051
pH-F	pH Units	7.62	7.62	7.62	7.41	7.4
S-D	mg/L	11.9	9.5	9.8	25.8	15.5
S-T	mg/L	11.7	9.9	9.3	30.6	7.4
Se-D	mg/L	0.000053	0.00005	0.000048	0.000046	0.000046
Se-T	mg/L	0.000042	0.000054	0.000052	0.000046	0.000047
Si-D	mg/L	2.45	2.28	2.25	2.34	2.48
Si-T	mg/L	2.46	2.46	2.34	2.42	2.57
SO4-D	mg/L		30	29	68	23
Sr-D	mg/L	0.0824	0.0679	0.0694	0.164	0.109
Sr-T	mg/L	0.083	0.0701	0.0679	0.194	0.0552
Temp-F	C	6.532	5.786	6.28	6.728	6.084
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	<0.00050	0.00057	<0.00050
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L		<1.0	7.2	<1.0	2.4
Zn-D	mg/L	0.0005	0.00071	0.00058	0.00059	0.00024
Zn-T	mg/L	0.00029	0.00017	0.00023	0.00047	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS		QRDS	QRDS	QRDS	QRDS
Date		2025/12/10	2025/12/11	2025/12/12	2025/12/14	2025/12/15	2025/12/16
Acidity83	mg/L	1.1	1.1	1.3	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Al-D	mg/L	0.019	0.0211	0.0236	0.0236	0.0228	0.026
Al-T	mg/L	0.0343	0.0316	0.0366	0.048	0.067	0.0645
Alk-T	mg/L	42	46	53	42	37	38
As-D	mg/L	0.000195	0.000179	0.000198	0.000167	0.000171	0.000145
As-T	mg/L	0.000246	0.000218	0.000265	0.000238	0.000247	0.000182
B-D	mg/L	0.051	0.068	0.073	0.05	0.044	0.044
B-T	mg/L	0.06	0.055	0.082	0.052	0.042	0.043
Ba-D	mg/L	0.00295	0.00316	0.00318	0.00251	0.00257	0.00236
Ba-T	mg/L	0.0032	0.00335	0.00354	0.00324	0.00288	0.00266
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	0.000026	0.000014	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	15.2	16.8	17.7	13.7	13	11.8
Ca-T	mg/L	15.4	17.1	18.5	15.9	13	11.5
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	0.0000053	<0.0000050	0.0000106	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000401	0.0000488	0.0000562	0.0000367	0.00003	0.0000417
Co-T	mg/L	0.0000568	0.0000606	0.0000789	0.000075	0.000067	0.000068
Cond-F	uS/cm	169.7	248.1	208.6	111.9	146.3	134.2
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00012	<0.00010	0.00011	0.0002	0.00013	0.00013
Cu-D	mg/L	0.000442	0.000515	0.000563	0.000574	0.000535	0.000599
Cu-T	mg/L	0.00065	0.000625	0.000687	0.00287	0.00077	0.00106
DOC	mg/L	2.6	2.7	2.7	2.8	2.7	2.9
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0431	0.0506	0.0584	0.0423	0.04	0.0401
Fe-T	mg/L	0.18	0.264	0.288	0.255	0.224	0.198
Hard-D	mg/L	45.7	50.9	53.1	41	39.4	35.8
Hard-T	mg/L	46.5	51.2	55.5	48.3	39.1	34.8
K-D	mg/L	0.346	0.422	0.441	0.301	0.278	0.275
K-T	mg/L	0.355	0.416	0.489	0.39	0.26	0.28
Li-D	mg/L	0.0007	0.00054	0.00102	0.00055	0.0005	0.00057
Li-T	mg/L	0.00081	0.00068	0.00116	0.00067	<0.00050	0.00057
Mg-D	mg/L	1.86	2.15	2.17	1.67	1.66	1.54
Mg-T	mg/L	1.96	2.06	2.27	2.11	1.65	1.48
Mn-D	mg/L	0.0293	0.0386	0.0406	0.0248	0.0194	0.021
Mn-T	mg/L	0.0316	0.0417	0.0479	0.0366	0.0273	0.0279
Mo-D	mg/L	0.000164	0.000195	0.000183	0.000252	0.000187	0.000296
Mo-T	mg/L	0.000177	0.000185	0.000191	0.000276	0.000172	0.000169
Na-D	mg/L	17.1	21.9	23.3	15.4	13.5	12.7
Na-T	mg/L	18.1	21	25.5	19.4	12.3	13.1
Ni-D	mg/L	0.000156	0.000103	0.000116	0.000086	0.000102	0.000099
Ni-T	mg/L	0.000142	0.000108	0.000130	0.00047	0.000132	0.00016
Pb-D	mg/L	0.000065	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000066
Pb-T	mg/L	0.0000419	0.0000074	0.0000375	0.000038	0.0000158	0.000022
pH-F	pH Units	7.67	6.71	7.61	7.57	7.52	7.58
S-D	mg/L	13.8	17.1	17.7	11.1	10.5	9.7
S-T	mg/L	14.3	16.7	19.5	15	9.5	10.1
Se-D	mg/L	0.000054	0.000047	0.000049	0.000049	<0.000040	0.000051
Se-T	mg/L	0.000052	0.000052	0.000069	0.000061	0.00005	0.00005
Si-D	mg/L	2.5	2.48	2.60	2.47	2.35	2.53
Si-T	mg/L	2.54	2.42	2.71	2.74	2.5	2.35
SO4-D	mg/L	43	51	57	38	31	33
Sr-D	mg/L	0.0965	0.122	0.118	0.0806	0.0772	0.0741
Sr-T	mg/L	0.103	0.113	0.130	0.101	0.0732	0.0751
Temp-F	C	6.39	6.28	6.487	7.171	7.381	6.975
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00083	0.00075	0.00081	<0.0020	0.00261	0.0024
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	0.0000021	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	1.6	<1.0	<1.0	2.8	<1.0
Zn-D	mg/L	0.00081	0.00028	0.00045	0.00096	0.00072	0.0012
Zn-T	mg/L	0.00021	<0.00010	0.00018	0.0016	0.00033	0.0015

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS		QRDS	QRDS	QRDS	QRDS
Date		2025/12/17	2025/12/18	2025/12/19	2025/12/22	2025/12/23	2025/12/24
Acidity83	mg/L	<1.0	<1.0	1.1	<1.0	<1.0	1.2
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.026	0.0245	0.0248	0.0233	0.02	0.0219
Al-T	mg/L	0.0309	0.0557	0.0484	0.0371	0.0339	0.0441
Alk-T	mg/L	32	35	40	51	30	31
As-D	mg/L	0.000156	0.000117	0.000158	0.000174	0.000173	0.000159
As-T	mg/L	0.000181	0.000168	0.000229	0.000268	0.000175	0.000217
B-D	mg/L	0.042	0.033	0.056	0.073	0.023	0.028
B-T	mg/L	0.034	0.046	0.056	0.081	0.024	0.031
Ba-D	mg/L	0.00209	0.00209	0.00233	0.00276	0.00185	0.00184
Ba-T	mg/L	0.00175	0.00258	0.00271	0.00309	0.00177	0.00214
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12	11.8	14.4	16.5	9.83	10.4
Ca-T	mg/L	12	12.9	13.5	17.4	9.93	10.7
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000067	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000039	0.000039	0.000052	0.000071	0.0000218	0.000028
Co-T	mg/L	0.00003	0.000065	0.000067	0.000085	0.0000358	0.0000415
Cond-F	uS/cm	67.2	127.5	158.3	183.4	109.3	159.3
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	<0.00010
Cr-T	mg/L	0.00011	0.00011	0.00014	<0.00010	0.00011	0.00013
Cu-D	mg/L	0.00061	0.000608	0.000579	0.000561	0.000588	0.000613
Cu-T	mg/L	0.0007	0.00077	0.00102	0.000711	0.000662	0.000995
DOC	mg/L	2.9	2.8	2.7	2.6	2.6	2.8
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0327	0.0317	0.0347	0.0285	0.021	0.0246
Fe-T	mg/L	0.0487	0.174	0.224	0.321	0.0619	0.128
Hard-D	mg/L	35.8	35.4	43.1	49.4	29.4	30.9
Hard-T	mg/L	35	39.2	40.8	52.1	29.8	32.5
K-D	mg/L	0.259	0.257	0.334	0.431	0.154	0.183
K-T	mg/L	<0.25	0.3	0.33	0.472	0.162	0.189
Li-D	mg/L	<0.00050	<0.00050	0.00074	0.00081	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	0.00069	0.00095	<0.00050	<0.00050
Mg-D	mg/L	1.42	1.47	1.72	1.97	1.17	1.2
Mg-T	mg/L	1.2	1.72	1.74	2.09	1.22	1.42
Mn-D	mg/L	0.0219	0.0195	0.0284	0.0358	0.00651	0.00853
Mn-T	mg/L	0.00893	0.0266	0.0311	0.0413	0.00764	0.011
Mo-D	mg/L	0.000169	0.000207	0.000241	0.000202	0.000325	0.000186
Mo-T	mg/L	0.000443	0.000173	0.000187	0.000174	0.000174	0.000165
Na-D	mg/L	12	11.6	16.7	23	6.5	7.15
Na-T	mg/L	9.94	14.6	16.8	25.3	6.35	8.15
Ni-D	mg/L	0.000086	0.000086	0.000098	0.000141	0.000072	0.000075
Ni-T	mg/L	<0.00010	0.000117	0.00015	0.000142	0.000077	0.000106
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.000007	<0.0000050	<0.0000050
Pb-T	mg/L	<0.000020	0.00001	0.000026	0.000007	0.0000107	0.0000289
pH-F	pH Units	7.59	7.59	7.53	7.51	7.7	7.58
S-D	mg/L	9.1	9.3	12.9	16.8	3.5	5.4
S-T	mg/L	7.8	10.9	12.2	18.1	4.8	5.7
Se-D	mg/L	0.000051	0.000053	0.000054	0.000056	0.000054	0.000061
Se-T	mg/L	0.00007	0.000054	0.000052	0.000057	0.000063	0.000061
Si-D	mg/L	2.47	2.19	2.44	2.48	2.39	2.21
Si-T	mg/L	2.51	2.58	2.33	2.52	2.4	2.24
SO4-D	mg/L	28	28	39	48	16	19
Sr-D	mg/L	0.0659	0.0636	0.0866	0.108	0.0404	0.045
Sr-T	mg/L	0.0545	0.08	0.0865	0.116	0.0391	0.0466
Temp-F	C	6.07	6.34	5.356	5.042	4.661	4.72
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0020	0.00112	<0.0020	0.00109	0.00062	0.00112
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	1.2	<1.0	<1.0
Zn-D	mg/L	0.00021	0.00028	<0.00010	0.00086	0.00237	0.00052
Zn-T	mg/L	<0.0010	0.00049	<0.0010	0.00021	0.0002	0.00094

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam						
Station Name		Quinsam River Downstream				
Stn.Code		QRDS	QRDS	QRDS	QRDS	QRDS
Date		2025/12/28	2025/12/30	2025/12/31	2026/01/03	2026/01/06
Acidity83	mg/L	1.3	1.4	1.8	<1.0	1.1
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0189	0.0208	0.021	0.0182	0.0224
Al-T	mg/L	0.0296	0.0323	0.0266	0.0288	0.0285
Alk-T	mg/L	61	49	37	62	37
As-D	mg/L	0.000219	0.000223	0.000251	0.000208	0.000184
As-T	mg/L	0.000272	0.000264	0.00028	0.000324	0.000241
B-D	mg/L	0.084	0.04	0.04	0.087	0.043
B-T	mg/L	0.094	0.045	0.04	0.087	0.037
Ba-D	mg/L	0.00339	0.00219	0.00231	0.00331	0.00228
Ba-T	mg/L	0.00351	0.00254	0.00229	0.00385	0.00222
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	19.1	11.7	11.9	18.5	12
Ca-T	mg/L	18.5	12.4	11.3	18.3	11.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000104	0.0000417	0.0000345	0.0000864	0.0000262
Co-T	mg/L	0.000106	0.0000519	0.0000396	0.0000917	0.0000307
Cond-F	uS/cm	197	130.1	170		131.3
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00011	0.00012	<0.00010	0.00017	<0.00010
Cu-D	mg/L	0.000546	0.000573	0.000571	0.000517	0.000483
Cu-T	mg/L	0.000686	0.000695	0.000603	0.000718	0.000591
DOC	mg/L	2.6	2.4	2.4	2.1	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0292	0.0246	0.0252	0.0284	0.0273
Fe-T	mg/L	0.236	0.106	0.074	0.247	0.065
Hard-D	mg/L	56.5	34.7	35.7	55.9	36.7
Hard-T	mg/L	55.9	37.7	34.2	55.1	33.9
K-D	mg/L	0.534	0.235	0.232	0.493	0.228
K-T	mg/L	0.508	0.265	0.223	0.494	0.208
Li-D	mg/L	0.00124	0.00056	<0.00050	0.00113	<0.00050
Li-T	mg/L	0.00104	0.0005	<0.00050	0.00121	<0.00050
Mg-D	mg/L	2.14	1.36	1.43	2.34	1.61
Mg-T	mg/L	2.38	1.63	1.44	2.29	1.45
Mn-D	mg/L	0.0440	0.0131	0.0106	0.0379	0.0083
Mn-T	mg/L	0.0430	0.0158	0.0114	0.0407	0.00877
Mo-D	mg/L	0.000189	0.000194	0.000188	0.000244	0.000174
Mo-T	mg/L	0.000176	0.000175	0.000194	0.000166	0.000174
Na-D	mg/L	25.9	10.5	10.9	29.5	11.9
Na-T	mg/L	28.1	13.1	11.2	28.4	10.7
Ni-D	mg/L	0.000175	0.000095	0.000084	0.000217	0.000055
Ni-T	mg/L	0.000199	0.000115	0.000094	0.000175	0.000076
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000232	<0.0000050
pH-F	pH Units	7.61	7.74	6.83		6.77
S-D	mg/L	19.4	8.2	8.1	19.7	8.3
S-T	mg/L	19.8	9.3	7.8	20	7.8
Se-D	mg/L	0.000052	0.000051	0.000048	0.000043	0.000061
Se-T	mg/L	0.000054	0.000058	0.000053	0.000053	0.000049
Si-D	mg/L	2.32	2.18	2.54	2.34	2.52
Si-T	mg/L	2.40	2.27	2.37	2.39	2.37
SO4-D	mg/L	62	46	25	60	27
Sr-D	mg/L	0.135	0.063	0.0597	0.127	0.0563
Sr-T	mg/L	0.125	0.0695	0.0583	0.131	0.0546
Temp-F	C	3.701	4.196	4.621		3.979
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00056	0.00079	<0.00050	<0.00050	0.00054
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00045	0.00063	0.00059	0.00105	0.00041
Zn-T	mg/L	0.00011	0.00021	0.00468	0.00228	0.00013

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS		QRDS		QRDS	
Date		2026/01/07	2026/01/08	2026/01/19	2026/01/26	2026/01/29	2026/02/02
Acidity83	mg/L	<1.0	2.7	1.7		1.6	1.8
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0214	0.0195	0.024	0.0215	0.02	0.025
Al-T	mg/L	0.0286	0.0261	0.0385	0.0301	0.0272	0.0415
Alk-T	mg/L	37	39	34	59	50	56
As-D	mg/L	0.000198	0.000182	0.000164	0.000217	0.000235	0.000181
As-T	mg/L	0.00023	0.000208	0.000186	0.000258	0.000257	0.00023
B-D	mg/L	0.045	0.048	0.04	0.059	0.07	0.057
B-T	mg/L	0.044	0.05	0.037	0.057	0.062	0.076
Ba-D	mg/L	0.00222	0.00227	0.00208	0.00246	0.00271	0.00225
Ba-T	mg/L	0.00223	0.00232	0.00211	0.00258	0.00267	0.00287
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	11.7	11.7	12.1	13.6	14.8	14.2
Ca-T	mg/L	11.6	11.8	11.7	13.4	14.4	16.3
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000286	0.0000336	0.0000461	0.0000781	0.000102	0.000112
Co-T	mg/L	0.0000313	0.0000365	0.0000475	0.0000809	0.000108	0.000151
Cond-F	uS/cm	449.4	150.4	162.8	241.1	182.3	237.1
Cr-D	mg/L	<0.00010	<0.00010	0.00011	<0.00010	0.00011	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	0.00011	0.0001	<0.00010	0.00011
Cu-D	mg/L	0.00051	0.000584	0.000658	0.000573	0.000571	0.000568
Cu-T	mg/L	0.000575	0.000581	0.000686	0.000668	0.000662	0.000744
DOC	mg/L	2.7	2.6	2.7	2.4	2.8	2.9
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.027	0.0279	0.0224	0.0436	0.0484	0.0555
Fe-T	mg/L	0.0815	0.0815	0.098	0.148	0.159	0.198
Hard-D	mg/L	35.8	35.2	36.1	41.2	44.3	42.7
Hard-T	mg/L	34.8	35.9	34.9	40.4	42.9	48.4
K-D	mg/L	0.239	0.285	0.255	0.337	0.401	0.355
K-T	mg/L	0.222	0.258	0.237	0.329	0.368	0.439
Li-D	mg/L	<0.00050	0.00054	<0.00050	0.00078	0.00095	0.00062
Li-T	mg/L	<0.00050	0.00056	<0.00050	0.0008	0.00075	0.00076
Mg-D	mg/L	1.57	1.47	1.45	1.74	1.79	1.74
Mg-T	mg/L	1.42	1.53	1.38	1.68	1.69	1.86
Mn-D	mg/L	0.00926	0.011	0.018	0.0271	0.0356	0.0315
Mn-T	mg/L	0.0103	0.012	0.0178	0.028	0.0331	0.0421
Mo-D	mg/L	0.0002	0.000186	0.000363	0.000186	0.000189	0.000193
Mo-T	mg/L	0.000179	0.00018	0.000173	0.00017	0.000165	0.000158
Na-D	mg/L	12.1	12.6	12.2	17.2	20.3	19.6
Na-T	mg/L	11.4	13.5	11.1	16.4	19.4	23.7
Ni-D	mg/L	0.000073	0.000135	0.000089	0.000156	0.000214	0.000182
Ni-T	mg/L	0.000067	0.000103	0.000096	0.000141	0.000202	0.000232
Pb-D	mg/L	<0.0000050	<0.0000050	0.0000057	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005
pH-F	pH Units	6.72	7.17	6.49	6.3	6.8	6.53
S-D	mg/L	8.7	8.3	8.5	12.3	14.2	12.9
S-T	mg/L	8.3	9	7.4	11.4	13.7	16.6
Se-D	mg/L	0.000042	0.000043	0.000057	0.000063	0.000057	0.000052
Se-T	mg/L	0.000049	0.000045	0.000079	0.000059	0.000052	0.000053
Si-D	mg/L	2.42	2.33	2.35	2.29	2.29	2.26
Si-T	mg/L	2.4	2.35	2.32	2.24	2.25	2.54
SO4-D	mg/L	26	28	25	56	42	50
Sr-D	mg/L	0.0578	0.066	0.0594	0.082	0.086	0.0856
Sr-T	mg/L	0.0591	0.0666	0.0553	0.0788	0.0866	0.106
Temp-F	C	4.302	3.919	4.335	4.462	4.748	5.46
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	0.00116	0.00074	0.0006	0.00098
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00064	0.00118	0.00179	0.0003	0.00031	0.00028
Zn-T	mg/L	<0.00010	0.00044	0.00018	0.0001	0.00045	0.00015

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS	QRDS	QRDS	QRDS	QRDS	QRDS
Date		2026/02/05	2026/02/09	2026/02/23	2026/02/25	2026/03/02	2026/03/04
Acidity83	mg/L		1.1		1.8		2.2
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0267	0.0222	0.0298	0.0276	0.0225	0.0217
Al-T	mg/L	0.0347	0.039	0.0464	0.0164	0.0318	0.0314
Alk-T	mg/L	57	44	40	50	45	47
As-D	mg/L	0.000233	0.00019	0.000243	0.000247	0.000238	0.000227
As-T	mg/L	0.00024	0.000253	0.00033	0.000277	0.000246	0.000269
B-D	mg/L	0.103	0.069	0.048	0.054	0.063	0.065
B-T	mg/L	0.089	0.082	0.045	0.099	0.069	0.064
Ba-D	mg/L	0.00319	0.00264	0.00294	0.00286	0.00297	0.00312
Ba-T	mg/L	0.00296	0.00281	0.00324	0.00351	0.00322	0.00321
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	18.7	15.5	13.6	13	14.4	14.6
Ca-T	mg/L	16.4	15.3	13.7	18	15.5	15.1
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
Co-D	mg/L	0.000192	0.000163	0.0000534	0.0000665	0.0000717	0.0000817
Co-T	mg/L	0.000176	0.000164	0.0000678	0.0000747	0.0000756	0.0000877
Cond-F	uS/cm	196.6	161.4	141	176	189.3	188.6
Cr-D	mg/L	<0.00010	0.0001	<0.00010	0.00022	0.00039	<0.00010
Cr-T	mg/L	<0.00010	0.0001	<0.00010	<0.00010	0.00054	<0.00010
Cu-D	mg/L	0.000587	0.00059	0.000502	0.00057	0.000579	0.000532
Cu-T	mg/L	0.000694	0.00071	0.000608	0.000529	0.000683	0.000614
DOC	mg/L	2.5	2.8	2.7	2.4	2.5	4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.067	0.0544	0.0341	0.0439	0.0262	0.0245
Fe-T	mg/L	0.191	0.178	0.0951	0.0863	0.121	0.116
Hard-D	mg/L	56.3	46.1	41.6	39.8	43.8	44.8
Hard-T	mg/L	49.1	46.5	41.4	54.6	47.1	45.6
K-D	mg/L	0.542	0.408	0.28	0.293	0.36	0.356
K-T	mg/L	0.474	0.43	0.293	0.559	0.366	0.359
Li-D	mg/L	0.00132	0.00101	0.00066	0.00065	0.00085	0.001
Li-T	mg/L	0.00118	0.00101	0.00064	0.00134	0.00083	0.00086
Mg-D	mg/L	2.32	1.8	1.87	1.82	1.88	1.99
Mg-T	mg/L	1.99	2	1.75	2.37	2.03	1.95
Mn-D	mg/L	0.0539	0.0392	0.0174	0.0226	0.0255	0.0261
Mn-T	mg/L	0.0473	0.0396	0.0216	0.0347	0.0282	0.0275
Mo-D	mg/L	0.000389	0.000562	0.000158	0.000173	0.000205	0.000186
Mo-T	mg/L	0.000171	0.000168	0.000134	0.000224	0.000187	0.000162
Na-D	mg/L	30.6	21.2	12.2	13.9	17.9	18.9
Na-T	mg/L	26.4	23	12.5	31.7	19.7	18.5
Ni-D	mg/L	0.000355	0.000261	0.000127	0.000175	0.000266	0.000159
Ni-T	mg/L	0.000282	0.000284	0.000148	0.000185	0.000324	0.00018
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	0.0000062	<0.0000050	<0.0000050	<0.0000050
pH-F	pH Units	6.57	7.09	7.12	7.18	6.9	7.2
S-D	mg/L	21.7	15.4	11	10.9	13.6	13.8
S-T	mg/L	18.1	15.9	11.4	22.1	14.9	13.1
Se-D	mg/L	0.000058	0.00005	0.000043	<0.000040	<0.000040	<0.000040
Se-T	mg/L	0.000044	<0.000040	0.000042	<0.000040	0.000045	0.000051
Si-D	mg/L	2.62	2.1	2.58	2.68	2.51	2.46
Si-T	mg/L	2.39	2.5	2.75	2.7	2.69	2.45
SO4-D	mg/L	50	33	38	48	41	42
Sr-D	mg/L	0.134	0.0963	0.0701	0.0812	0.0878	0.0951
Sr-T	mg/L	0.116	0.108	0.0747	0.144	0.0897	0.0935
Temp-F	C	5.4	5.899	3.46	4.253	4.161	5.36
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00077	0.00062	0.00101	<0.00050	0.00053	0.00066
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.0017	0.0025	0.0007	0.0003	0.00028	0.00031
Zn-T	mg/L	0.00072	0.00019	0.00021	<0.00010	<0.00010	0.00028

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream					
Stn.Code		QRDS	QRDS	QRDS	QRDS	QRDS	QRDS
Date		2026/03/09	2026/03/11	2026/03/16	2026/03/18	2026/03/23	2026/03/25
Acidity83	mg/L	1.4	1.3	<1.0	<1.0	<1.0	1
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0215	0.0211	0.0282	0.0245	0.0222	0.0225
Al-T	mg/L	0.0274	0.028	0.0285	0.045	0.0327	0.0365
Alk-T	mg/L	34	46	74	34	41	46
As-D	mg/L	0.000277	0.000248	0.000393	0.000243	0.000182	0.000189
As-T	mg/L	0.000332	0.000292	0.000346	0.000298	0.000214	0.000238
B-D	mg/L	0.046	0.069	0.119	0.043	0.059	0.062
B-T	mg/L	0.043	0.068	0.117	0.049	0.055	0.061
Ba-D	mg/L	0.00282	0.00351	0.00468	0.0031	0.00227	0.00259
Ba-T	mg/L	0.00294	0.00343	0.00442	0.00335	0.00254	0.00281
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.7	16.5	24.4	14.1	13	14.2
Ca-T	mg/L	12.1	15.8	21.6	14.1	14	15.6
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000449	0.0000861	0.00022	0.0000627	0.000127	0.000141
Co-T	mg/L	0.0000542	0.0000913	0.000209	0.0000636	0.000161	0.000171
Cond-F	uS/cm	133.8	188.2	289.9	176	177.8	223.8
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	0.00011	0.00011	0.00011
Cu-D	mg/L	0.000487	0.000508	0.000664	0.000539	0.000564	0.000572
Cu-T	mg/L	0.000567	0.000663	0.0007	0.000557	0.000704	0.000734
DOC	mg/L	2.3	2.3	2.4	2.4	2.4	2.3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0257	0.0254	0.0913	0.0395	0.0343	0.0431
Fe-T	mg/L	0.0784	0.116	0.225	0.105	0.117	0.187
Hard-D	mg/L	38.6	50.3	73.6	42.7	39	43.1
Hard-T	mg/L	36.6	48.5	66.3	43.4	41.9	46.9
K-D	mg/L	0.246	0.381	0.71	0.252	0.286	0.326
K-T	mg/L	0.25	0.38	0.63	0.251	0.339	0.37
Li-D	mg/L	0.00073	0.00086	0.00152	0.00058	0.00097	0.00077
Li-T	mg/L	0.00062	0.00087	0.00165	0.00071	0.0006	0.00073
Mg-D	mg/L	1.66	2.2	3.06	1.83	1.61	1.84
Mg-T	mg/L	1.56	2.18	3.01	1.96	1.68	1.89
Mn-D	mg/L	0.0142	0.027	0.0676	0.0162	0.0305	0.0339
Mn-T	mg/L	0.0161	0.0278	0.0636	0.018	0.035	0.039
Mo-D	mg/L	0.000211	0.000211	0.000461	0.000163	0.000228	0.000193
Mo-T	mg/L	0.00018	0.00018	0.000177	0.000168	0.000166	0.000175
Na-D	mg/L	11.2	20.9	39.8	10.3	15.3	17.5
Na-T	mg/L	11.1	20.3	36.1	10.6	18.2	20.1
Ni-D	mg/L	0.000121	0.000182	0.000423	0.000146	0.000222	0.000216
Ni-T	mg/L	0.000125	0.000181	0.00035	0.000145	0.000254	0.000259
Pb-D	mg/L	<0.0000050	<0.0000050	0.0000165	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	0.000028	0.000005	<0.0000050	<0.0000050
pH-F	pH Units	7.04	7.1	6.94	6.87	6.75	7.36
S-D	mg/L	9.6	15.8	26.8	10.2	10.7	13.2
S-T	mg/L	9.6	15.7	26	10.7	13.6	14.4
Se-D	mg/L	0.000042	0.000054	0.000044	0.000044	0.000067	0.00005
Se-T	mg/L	0.000049	<0.000040	<0.000040	<0.000040	<0.000040	0.000049
Si-D	mg/L	2.69	2.61	2.71	2.54	2.25	2.22
Si-T	mg/L	2.54	2.63	2.58	3	2.42	2.38
SO4-D	mg/L	27	46	76	34	37	42
Sr-D	mg/L	0.0737	0.11	0.181	0.0765	0.0762	0.0879
Sr-T	mg/L	0.072	0.107	0.168	0.0796	0.0818	0.102
Temp-F	C	6.206	5.5	5.573	6.058	6.786	6.178
Ti-D	mg/L	<0.00050	<0.00050	0.00063	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00065	<0.00050	<0.0020	0.00123	0.00061	0.00086
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	1.2	<1.0	1.2	<1.0
Zn-D	mg/L	0.0006	0.00151	0.00291	0.00038	0.0012	0.00123
Zn-T	mg/L	0.0001	<0.00010	<0.0010	0.00055	0.00018	0.00018

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/04/29	2025/04/30	2025/05/01	2025/05/05	2025/05/12	2025/05/20
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	1.4	<1.0
Ag-D	mg/L	<0.000020	<0.000050	0.0000050	<0.000050	<0.000050	<0.000050
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000050	<0.000010
Al-D	mg/L	0.0120	0.0109	0.0104	0.00958	0.00920	0.00913
Al-T	mg/L	0.0189	0.0172	0.0179	0.0218	0.0144	0.0140
Alk-T	mg/L	46	45	46	44	43	41
As-D	mg/L	0.00091	0.000959	0.000848	0.00125	0.00123	0.00112
As-T	mg/L	0.00087	0.00083	0.00096	0.00138	0.00138	0.00124
B-D	mg/L	0.070	0.073	0.062	0.057	0.063	0.055
B-T	mg/L	0.064	0.056	0.065	0.071	0.059	0.055
Ba-D	mg/L	0.0043	0.00396	0.00379	0.00451	0.00435	0.00435
Ba-T	mg/L	0.0037	0.0034	0.0040	0.0043	0.00453	0.00416
Be-D	mg/L	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.000010
Bi-D	mg/L	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.000010
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	14.0	14.1	14.1	13.4	12.8	13.5
Ca-T	mg/L	13.6	12.7	13.7	12.7	13.0	12.5
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	<0.00020	0.0000380	0.0000380	0.0000300	0.0000240	0.0000243
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000290	0.000026
Cond-F	uS/cm	200	181.1	179	159.9	173.7	172.8
Cr-D	mg/L	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	0.00011
Cu-D	mg/L	0.00052	0.000478	0.000505	0.000491	0.000465	0.000564
Cu-T	mg/L	0.00060	0.00053	0.00061	0.00062	0.000559	0.00058
DOC	mg/L	2.0	2.3	2.1	2.0	1.9	2.1
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.117	0.118	0.127	0.0736	0.0611	0.0689
Fe-T	mg/L	0.192	0.181	0.212	0.154	0.125	0.120
Hard-D	mg/L	43.0	42.8	42.7	40.8	39.0	40.2
Hard-T	mg/L	41.2	38.5	41.3	38.1	39.3	37.5
K-D	mg/L	0.351	0.335	0.349	0.330	0.299	0.299
K-T	mg/L	0.312	0.287	0.336	0.308	0.296	0.26
Li-D	mg/L	<0.0020	0.00139	0.00128	0.00156	0.00142	0.00148
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00146	0.00142
Mg-D	mg/L	1.93	1.86	1.84	1.79	1.70	1.57
Mg-T	mg/L	1.76	1.65	1.74	1.56	1.67	1.54
Mn-D	mg/L	0.0253	0.0253	0.0258	0.0169	0.0146	0.0143
Mn-T	mg/L	0.0240	0.0239	0.0285	0.0201	0.0171	0.0158
Mo-D	mg/L	<0.0010	0.000454	0.000354	0.000379	0.000196	0.000273
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000197	0.000187
Na-D	mg/L	19.0	18.3	17.5	16.1	14.7	13.8
Na-T	mg/L	16.8	16.2	17.4	15.8	14.9	13.8
Ni-D	mg/L	<0.0010	0.000098	0.000101	0.000072	0.000048	0.000088
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000083	<0.00010
Pb-D	mg/L	<0.00020	<0.0000050	0.0000070	<0.0000050	<0.0000050	0.0000083
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.0000050	<0.000020
pH-F	pH Units	7.88	7.6	7.68	7.27	8.34	7.83
S-D	mg/L	13.3	13.6	11.1	10.8	11.2	9.2
S-T	mg/L	11.6	10.9	12.4	10.9	10.0	9.5
Se-D	mg/L	<0.00010	0.000055	0.000049	0.000051	0.000051	0.000050
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000043	0.000051
Si-D	mg/L	1.96	2.13	1.85	2.15	2.02	2.00
Si-T	mg/L	2.00	1.75	1.83	1.89	1.99	1.90
SO4-D	mg/L	38	36	36	32	29	29
Sr-D	mg/L	0.0954	0.0923	0.0846	0.0836	0.0779	0.0772
Sr-T	mg/L	0.0858	0.0786	0.0873	0.0776	0.0795	0.0745
Temp-F	C	12.9	12.7	13.3	14.7	14.6	13.9
Ti-D	mg/L	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.00050	<0.0020
Ti-D	mg/L	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Ti-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.0000020
TSS	mg/L	1.2	<1.0	1.6	1.2	<1.0	1.2
Zn-D	mg/L	<0.0050	0.00205	0.00134	0.00092	0.00062	0.00116
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00012	<0.0010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/05/26	2025/06/02	2025/09/08	2025/09/09	2025/11/20	2025/11/21
Acidity83	mg/L	<1.0	<1.0	1.4	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.000020	<0.000020	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000010	<0.0000050	<0.000020	<0.000020	<0.0000050	<0.0000050
Al-D	mg/L	0.00844	0.00862	0.0106	0.0076	0.0198	0.0202
Al-T	mg/L	0.0150	0.0129	0.0350	0.0162	0.0326	0.0241
Alk-T	mg/L	37	37	45	46	35	36
As-D	mg/L	0.00122	0.00123	0.00055	0.00043	0.000413	0.000431
As-T	mg/L	0.00129	0.00142	0.00093	0.00055	0.000449	0.000448
B-D	mg/L	0.047	0.049	0.076	0.074	0.038	0.043
B-T	mg/L	0.048	0.044	0.074	0.072	0.038	0.045
Ba-D	mg/L	0.00390	0.00383	0.0027	0.0026	0.0035	0.00322
Ba-T	mg/L	0.00394	0.00388	0.0030	0.0030	0.0037	0.0032
Be-D	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.00010	<0.00010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0010	<0.0010	<0.0000050	<0.0000050
Bi-T	mg/L	<0.000010	<0.0000050	<0.0010	<0.0010	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	11.6	11.4	14.6	15.3	12.1	12.9
Ca-T	mg/L	11.6	11.4	13.8	15.6	12.4	12.8
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000140	0.0000220	<0.00020	<0.00020	0.0000308	0.0000262
Co-T	mg/L	0.000028	0.0000220	<0.00020	<0.00020	0.000076	0.0000304
Cond-F	uS/cm	130.3	124	220		119.1	129.9
Cr-D	mg/L	<0.00010	<0.00010	<0.0010	<0.0010	0.00015	0.00015
Cr-T	mg/L	0.00016	<0.00010	<0.0010	<0.0010	0.00015	0.00014
Cu-D	mg/L	0.000484	0.000456	0.00049	0.00037	0.000612	0.000534
Cu-T	mg/L	0.00064	0.000492	0.00056	0.00054	0.000591	0.000534
DOC	mg/L	2.2	2.0	2.5	2.1	2.8	2.9
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0459	0.0476	0.0520	0.0200	0.0321	0.0386
Fe-T	mg/L	0.0725	0.0781	0.133	0.053	0.061	0.0661
Hard-D	mg/L	35.1	34.0	44.6	45.7	36.8	38.8
Hard-T	mg/L	34.7	34.4	42.3	47.6	37.4	39
K-D	mg/L	0.223	0.225	0.426	0.339	0.247	0.26
K-T	mg/L	<0.25	0.217	0.386	0.380	0.252	0.254
Li-D	mg/L	0.00135	0.00118	<0.0020	<0.0020	0.00068	0.00072
Li-T	mg/L	0.00126	0.00116	<0.0020	<0.0020	0.00064	0.00077
Mg-D	mg/L	1.46	1.34	1.96	1.79	1.61	1.63
Mg-T	mg/L	1.42	1.46	1.90	2.06	1.59	1.69
Mn-D	mg/L	0.00788	0.00869	0.0044	0.0018	0.0107	0.0136
Mn-T	mg/L	0.0113	0.0118	0.0185	0.0129	0.0129	0.0146
Mo-D	mg/L	0.000197	0.000175	<0.0010	<0.0010	0.000216	0.000194
Mo-T	mg/L	0.000196	0.000169	<0.0010	<0.0010	0.000163	0.000163
Na-D	mg/L	10.1	10.1	21.5	20.6	9.74	11.4
Na-T	mg/L	10.2	10.0	20.8	24.3	9.72	12
Ni-D	mg/L	0.000053	<0.000020	<0.0010	<0.0010	0.000077	0.000069
Ni-T	mg/L	<0.00010	0.000042	<0.0010	<0.0010	0.000087	0.000069
Pb-D	mg/L	<0.0000050	<0.0000050	<0.00020	<0.00020	0.0000051	<0.0000050
Pb-T	mg/L	<0.000020	<0.0000050	<0.00020	<0.00020	0.0000108	<0.0000050
pH-F	pH Units	7.77	7.53	7.69		7.08	7.36
S-D	mg/L	7.3	6.6	15.5	14.4	8	8.9
S-T	mg/L	7.0	6.5	14.6	16.9	8.2	9.5
Se-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	0.000048	0.000048
Se-T	mg/L	0.000040	0.000049	<0.00010	<0.00010	0.000052	0.000049
Si-D	mg/L	1.84	1.76	1.92	1.86	2.43	2.38
Si-T	mg/L	1.78	1.79	1.84	2.01	2.47	2.56
SO4-D	mg/L	19	19	45	47	25	29
Sr-D	mg/L	0.0624	0.0606	0.0934	0.0905	0.0607	0.0698
Sr-T	mg/L	0.0617	0.0599	0.0943	0.0981	0.0616	0.0693
Temp-F	C	13.7	14.8	19.8		8.5	9
Ti-D	mg/L	<0.00050	<0.00050	<0.0050	<0.0050	<0.00050	<0.00050
Ti-T	mg/L	<0.0020	<0.00050	<0.0050	<0.0050	0.001	<0.00050
Tl-D	mg/L	<0.0000020	<0.0000020	<0.000010	<0.000010	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.000010	<0.000010	<0.0000020	<0.0000020
TSS	mg/L	1.2	1.6			<1.0	<1.0
Zn-D	mg/L	0.00091	0.00033	<0.0050	<0.0050	0.00124	0.00086
Zn-T	mg/L	<0.0010	0.00017	<0.0050	<0.0050	0.0003	0.00021

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/11/22	2025/11/23	2025/11/24	2025/11/25	2025/11/26	2025/11/27
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0197	0.0188	0.0184	0.0188	0.0184	0.0154
Al-T	mg/L	0.0255	0.0266	0.0244	0.0261	0.0245	0.0264
Alk-T	mg/L	56	35	34	36	37	34
As-D	mg/L	0.000464	0.00044	0.000402	0.000412	0.000434	0.000412
As-T	mg/L	0.000501	0.000453	0.00042	0.00051	0.000434	0.000531
B-D	mg/L	0.044	0.041	0.038	0.042	0.04	0.032
B-T	mg/L	0.045	0.044	0.04	0.043	0.04	0.038
Ba-D	mg/L	0.00324	0.00298	0.00266	0.00261	0.00285	0.00261
Ba-T	mg/L	0.00322	0.00293	0.00261	0.00278	0.00282	0.00292
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.3	12	11.5	12.5	12.7	11.7
Ca-T	mg/L	13.2	13.1	12.4	12.3	12	11.7
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000254	0.0000225	0.0000187	0.000018	0.0000195	0.0000216
Co-T	mg/L	0.0000246	0.0000247	0.0000207	0.0000216	0.0000236	0.0000274
Cond-F	uS/cm	133.3	128.2	119.9	123.5	128.3	114.9
Cr-D	mg/L	0.00015	0.00016	0.00012	0.00014	<0.00010	0.00015
Cr-T	mg/L	0.00014	0.00015	0.00014	0.00016	0.00014	0.00018
Cu-D	mg/L	0.00056	0.000559	0.000557	0.000609	0.000579	0.000550
Cu-T	mg/L	0.000505	0.000528	0.000516	0.000634	0.000563	0.000638
DOC	mg/L	3.1	2.8	2.8	2.6	2.7	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.041	0.0355	0.0348	0.0311	0.0347	0.0345
Fe-T	mg/L	0.0747	0.0869	0.0795	0.102	0.0878	0.165
Hard-D	mg/L	37.5	36.6	35.2	37.7	38.3	35.0
Hard-T	mg/L	40.3	39.7	37.5	37.1	37	35.9
K-D	mg/L	0.268	0.242	0.229	0.238	0.243	0.195
K-T	mg/L	0.272	0.257	0.234	0.246	0.247	0.226
Li-D	mg/L	0.00075	0.00064	0.00068	0.00076	0.00074	0.00069
Li-T	mg/L	0.00072	0.00068	0.00058	0.00083	0.0007	0.00078
Mg-D	mg/L	1.68	1.6	1.54	1.58	1.57	1.40
Mg-T	mg/L	1.75	1.71	1.57	1.55	1.68	1.62
Mn-D	mg/L	0.0145	0.0129	0.0114	0.0116	0.0128	0.00986
Mn-T	mg/L	0.0159	0.0151	0.0129	0.0136	0.0132	0.0115
Mo-D	mg/L	0.000213	0.000198	0.000201	0.000186	0.000192	0.000168
Mo-T	mg/L	0.000167	0.000162	0.000164	0.000197	0.000163	0.000165
Na-D	mg/L	12.3	11.2	10.3	10.9	11.1	8.81
Na-T	mg/L	12.5	12.3	10.8	10.8	11.2	9.85
Ni-D	mg/L	0.000072	0.000072	0.000077	0.000074	0.000095	0.000065
Ni-T	mg/L	0.000081	0.000071	0.000069	0.000097	0.000109	0.000133
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.000021	<0.0000050	0.0000068
pH-F	pH Units	8.5	7.34	7.51	7.12	6.98	7.15
S-D	mg/L	9.6	8.9	8.1	8.7	9.1	7.2
S-T	mg/L	9.9	9.3	8.1	8.6	9.2	7.7
Se-D	mg/L	0.000051	0.000054	0.000048	0.00005	0.000045	0.000063
Se-T	mg/L	0.00005	0.000048	0.000048	0.000055	0.000051	0.000051
Si-D	mg/L	2.32	2.41	2.37	2.44	2.53	2.20
Si-T	mg/L	2.46	2.55	2.43	2.54	2.38	2.36
SO4-D	mg/L	46	28	25	26	28	23
Sr-D	mg/L	0.0754	0.0697	0.0629	0.0676	0.0704	0.0585
Sr-T	mg/L	0.0738	0.0713	0.0647	0.0669	0.0681	0.0619
Temp-F	C	7.33	7.7	7.7	7.5	7.4	7.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	0.00052	<0.00050	0.00059	0.00057	0.00058
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.001	0.00114	0.00089	0.00193	0.00058	0.00078
Zn-T	mg/L	0.00027	0.00021	0.00019	0.00048	0.00026	0.00043

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/12/02	2025/12/05	2025/12/06	2025/12/07	2025/12/08	2025/12/09
Acidity83	mg/L	<1.0		<1.0	1	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0179	0.0206	0.0256	0.0204	0.0189	0.0214
Al-T	mg/L	0.021	0.0267	0.034	0.0313	0.0283	0.0322
Alk-T	mg/L	33		32	31	34	31
As-D	mg/L	0.000564	0.000541	0.0005	0.000484	0.000459	0.000384
As-T	mg/L	0.00057	0.0006	0.000591	0.000575	0.000548	0.000465
B-D	mg/L	0.045	0.04	0.03	0.03	0.035	0.034
B-T	mg/L	0.041	0.04	0.03	0.031	0.035	0.035
Ba-D	mg/L	0.00301	0.00302	0.00291	0.00281	0.00287	0.00258
Ba-T	mg/L	0.00301	0.0032	0.00296	0.00294	0.003	0.00266
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00001
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010		<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.1	11.5	10.3	10.7	11.5	11.5
Ca-T	mg/L	11.8	12	10.7	10.9	11.8	11.3
Carb	mg/L	<1.0		<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000053
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000023	<0.0000050
Cl-D	mg/L	<1.0		<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000205	0.0000225	0.0000268	0.000024	0.0000259	0.0000312
Co-T	mg/L	0.0000245	0.000027	0.0000349	0.0000304	0.0000524	0.000031
Cond-F	uS/cm	122.8	126.5	116	117.2	122.3	153.8
Cr-D	mg/L	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00013	<0.00010	0.00011	0.00011	0.00011	<0.00010
Cu-D	mg/L	0.000484	0.000624	0.000611	0.00057	0.000607	0.000591
Cu-T	mg/L	0.00054	0.000656	0.000624	0.000613	0.000653	0.000611
DOC	mg/L	2.6		3	2.7	2.6	2.8
F-D	mg/L	<0.050		<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0404	0.0457	0.0502	0.041	0.0425	0.0376
Fe-T	mg/L	0.0664	0.0763	0.0846	0.0906	0.105	0.0842
Hard-D	mg/L	36.8	35.6	32	32.4	34.7	34.8
Hard-T	mg/L	35.9	37	32.9	33.3	35.6	34.6
K-D	mg/L	0.235	0.231	0.206	0.214	0.243	0.202
K-T	mg/L	0.222	0.233	0.213	0.222	0.248	0.204
Li-D	mg/L	0.00089	0.00073	0.00064	0.00058	0.00068	0.00059
Li-T	mg/L	0.00082	0.00074	0.00064	0.00064	0.00065	0.0006
Mg-D	mg/L	1.58	1.64	1.5	1.39	1.46	1.49
Mg-T	mg/L	1.58	1.73	1.52	1.46	1.48	1.51
Mn-D	mg/L	0.00953	0.00962	0.0087	0.00888	0.0126	0.0094
Mn-T	mg/L	0.0105	0.0108	0.0112	0.011	0.0151	0.0117
Mo-D	mg/L	0.000189	0.000167	0.000187	0.000184	0.000187	0.000278
Mo-T	mg/L	0.000168	0.000173	0.000183	0.000156	0.000181	0.000161
Na-D	mg/L	9.81	10.4	7.77	7.8	9.81	8.11
Na-T	mg/L	9.51	10.1	7.86	8.36	9.86	8.2
Ni-D	mg/L	0.000063	0.000067	0.000075	0.000071	0.000078	0.000088
Ni-T	mg/L	0.000076	0.00009	0.000089	0.000081	0.000119	0.000087
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000054	0.0000257	<0.0000050
pH-F	pH Units	6.72	7.7	7.72	7.85	7.09	7.81
S-D	mg/L	8	7.9	6.7	6.5	8.2	6.6
S-T	mg/L	7.7	7.7	6.4	7	7.9	6.8
Se-D	mg/L	0.000047	0.000048	0.000042	0.000045	0.000048	0.000051
Se-T	mg/L	0.00005	0.000054	0.000046	0.000048	0.000052	0.000051
Si-D	mg/L	2.5	2.48	2.52	2.39	2.32	2.54
Si-T	mg/L	2.44	2.59	2.62	2.41	2.37	2.55
SO4-D	mg/L	24		21	20	25	21
Sr-D	mg/L	0.0636	0.0587	0.0537	0.056	0.0627	0.0517
Sr-T	mg/L	0.0638	0.0604	0.0528	0.0556	0.0634	0.0559
Temp-F	C	6.7	6.2	5.7	5.9	7.5	7.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	0.00067	0.00066	0.0006	0.00059
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000026	<0.0000020
TSS	mg/L	<1.0		<1.0	<1.0	<1.0	1.2
Zn-D	mg/L	0.00084	0.00043	0.00048	0.00138	0.00082	0.00121
Zn-T	mg/L	0.00024	0.00012	0.00046	0.00021	0.00016	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/12/10	2025/12/11	2025/12/12	2025/12/14	2025/12/15	2025/12/16
Acidity83	mg/L	<1.0	1	1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Al-D	mg/L	0.0207	0.0243	0.0271	0.0262	0.0275	0.0273
Al-T	mg/L	0.0343	0.0376	0.0400	0.0433	0.0574	0.074
Alk-T	mg/L	31	27	29	28	30	28
As-D	mg/L	0.000319	0.000262	0.000271	0.00027	0.000237	0.000174
As-T	mg/L	0.000403	0.000293	0.000316	0.000356	0.000524	0.000336
B-D	mg/L	0.028	0.025	0.028	0.026	0.027	0.025
B-T	mg/L	0.034	0.022	0.031	0.029	0.028	0.022
Ba-D	mg/L	0.00235	0.00212	0.00204	0.00205	0.00224	0.00192
Ba-T	mg/L	0.00247	0.00226	0.00215	0.00256	0.00268	0.00226
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000024	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.7	10.3	10.0	9.52	10.5	9.01
Ca-T	mg/L	11	10.2	10.1	11.6	10.9	8.19
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000219	0.0000214	0.0000230	0.0000222	0.0000246	0.0000232
Co-T	mg/L	0.0000298	0.0000344	0.0000312	0.000038	0.0000432	0.000062
Cond-F	uS/cm	108.9	106.9	101.2	107.1	104	180.6
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.00011	0.00011	0.0001
Cr-T	mg/L	<0.00010	0.0001	0.00010	0.00017	0.00014	0.00015
Cu-D	mg/L	0.000439	0.000545	0.000589	0.000843	0.000668	0.000626
Cu-T	mg/L	0.00059	0.000616	0.000635	0.00173	0.000839	0.00144
DOC	mg/L	2.7	2.9	3.0	2.9	3	3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0376	0.0377	0.0364	0.0321	0.0357	0.0283
Fe-T	mg/L	0.0825	0.0839	0.0719	0.095	0.115	0.13
Hard-D	mg/L	32.1	31.3	30.2	29	31.8	27.4
Hard-T	mg/L	33.6	30.6	30.5	35	33.2	24.8
K-D	mg/L	0.187	0.163	0.169	0.169	0.181	0.156
K-T	mg/L	0.194	0.159	0.169	<0.25	0.182	<0.25
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	0.00055	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.33	1.32	1.27	1.27	1.37	1.2
Mg-T	mg/L	1.5	1.24	1.29	1.46	1.46	1.07
Mn-D	mg/L	0.00764	0.00583	0.00537	0.00639	0.00547	0.00405
Mn-T	mg/L	0.01	0.00958	0.00758	0.0104	0.0108	0.0117
Mo-D	mg/L	0.000182	0.000214	0.000227	0.000202	0.000389	0.000249
Mo-T	mg/L	0.000179	0.000165	0.000180	0.000248	0.000177	0.000169
Na-D	mg/L	7.4	6.67	6.73	6.64	6.8	5.17
Na-T	mg/L	8.04	6.39	6.90	7.99	7.03	4.82
Ni-D	mg/L	0.000071	0.000076	0.000067	0.000098	0.000079	0.000069
Ni-T	mg/L	0.000084	0.000087	0.000073	0.00023	0.000123	0.00014
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000006	0.0000059
Pb-T	mg/L	<0.0000050	0.0000073	0.0000083	0.000031	0.0000481	0.00004
pH-F	pH Units	6.87	7.9	6.53	6.83	6.59	6.98
S-D	mg/L	6.1	5	5.1	4.7	5.6	4.4
S-T	mg/L	6.8	4.9	5.0	6.3	5.9	3.9
Se-D	mg/L	0.000042	0.000045	0.000048	0.00005	0.000073	0.000052
Se-T	mg/L	0.000046	0.000053	0.000054	0.000056	0.000054	0.000046
Si-D	mg/L	2.45	2.56	2.57	2.49	2.54	2.44
Si-T	mg/L	2.59	2.52	2.67	2.86	2.77	2.33
SO4-D	mg/L	20	18	17	16	18	15
Sr-D	mg/L	0.0525	0.0447	0.0422	0.0396	0.044	0.0379
Sr-T	mg/L	0.0562	0.0419	0.0447	0.0496	0.0452	0.0342
Temp-F	C	8.2	7.3	7.4	9	8.8	7.9
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00078	0.00084	0.00082	<0.0020	0.00165	0.0029
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	2	<1.0	3.2	1.6	2.8
Zn-D	mg/L	0.00059	0.00141	0.00115	0.00201	0.0021	0.0011
Zn-T	mg/L	0.00011	<0.00010	<0.00010	0.0013	0.00047	0.0012

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/12/17	2025/12/18	2025/12/19	2025/12/22	2025/12/23	2025/12/24
Acidity83	mg/L	1.1	1.5	<1.0	<1.0	<1.0	1.8
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0283	0.0261	0.0275	0.0257	0.0249	0.0208
Al-T	mg/L	0.0374	0.0623	0.0508	0.0426	0.0373	0.0445
Alk-T	mg/L	24	26	23	29	30	31
As-D	mg/L	0.000213	0.000171	0.000212	0.000289	0.000337	0.000336
As-T	mg/L	0.000252	0.000226	0.000229	0.00034	0.000347	0.000405
B-D	mg/L	0.021	0.017	0.02	0.026	0.027	0.03
B-T	mg/L	0.02	0.019	0.018	0.027	0.028	0.034
Ba-D	mg/L	0.00165	0.00164	0.00158	0.00185	0.00186	0.0021
Ba-T	mg/L	0.00136	0.0019	0.00176	0.002	0.00209	0.00228
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000011	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	8.64	8.2	8.47	9.47	10.1	10.4
Ca-T	mg/L	7.88	8.81	8.21	10.3	10.2	10.4
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.00001	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000021	0.000019	0.000023	0.000024	0.0000258	0.0000271
Co-T	mg/L	0.000021	0.000047	0.000032	0.000033	0.0000456	0.0000425
Cond-F	uS/cm	91.5	75.2	86	111.6	106.8	100.4
Cr-D	mg/L	0.0001	<0.00010	<0.00010	0.0001	0.0001	0.0001
Cr-T	mg/L	0.00011	0.00012	0.00013	0.0001	0.00011	0.00012
Cu-D	mg/L	0.000612	0.000636	0.000617	0.00059	0.000648	0.000586
Cu-T	mg/L	0.00074	0.000783	0.00088	0.000678	0.000765	0.000761
DOC	mg/L	3	2.9	2.8	3.1	2.7	2.8
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0251	0.0231	0.0242	0.0258	0.0271	0.0352
Fe-T	mg/L	0.0341	0.0849	0.0656	0.073	0.0696	0.0992
Hard-D	mg/L	25.9	24.8	25.7	28.6	30.3	30.8
Hard-T	mg/L	23.5	26.7	24.8	31	30.7	31.5
K-D	mg/L	0.135	0.135	0.135	0.162	0.185	0.187
K-T	mg/L	<0.25	0.141	<0.25	0.163	0.18	0.201
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00057
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.06	1.05	1.11	1.21	1.26	1.18
Mg-T	mg/L	0.94	1.14	1.05	1.27	1.29	1.37
Mn-D	mg/L	0.00373	0.00367	0.00387	0.00604	0.00703	0.00756
Mn-T	mg/L	0.00244	0.0075	0.00571	0.00817	0.00878	0.0107
Mo-D	mg/L	0.000196	0.000306	0.000179	0.000338	0.000174	0.000329
Mo-T	mg/L	0.000269	0.000167	0.000171	0.000157	0.000179	0.00018
Na-D	mg/L	4.11	4	4.25	6.29	7.49	6.96
Na-T	mg/L	3.98	4.44	4.01	6.5	6.92	8.51
Ni-D	mg/L	0.000086	0.000066	0.00008	0.000074	0.000073	0.000067
Ni-T	mg/L	<0.00010	0.000099	<0.00010	0.000083	0.0001	0.000099
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.000006	<0.0000050	<0.0000050
Pb-T	mg/L	<0.000020	0.00001	<0.000020	0.000014	0.0000177	0.0000058
pH-F	pH Units	7.46	7.96	6.38	6.9	6.75	7.95
S-D	mg/L	3.6	3.6	3.2	4.8	7	5.4
S-T	mg/L	3.4	3.4	3.3	4.8	5.2	6.1
Se-D	mg/L	0.000054	0.000047	0.000055	0.000055	0.000044	0.000054
Se-T	mg/L	0.000071	0.000061	0.00005	0.00005	0.000062	0.000061
Si-D	mg/L	2.54	2.18	2.43	2.42	2.39	2.25
Si-T	mg/L	2.55	2.63	2.39	2.54	2.43	2.33
SO4-D	mg/L	11	11	11	15	16	18
Sr-D	mg/L	0.0324	0.0303	0.029	0.0378	0.0435	0.0448
Sr-T	mg/L	0.0293	0.0326	0.0296	0.0397	0.0413	0.0465
Temp-F	C	7.8	5.7	6.8	5.9	5.5	4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00051	<0.00050
Ti-T	mg/L	<0.0020	0.0013	<0.0020	0.00093	0.00082	0.00129
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000026	<0.0000020
TSS	mg/L	<1.0	<1.0	2.4	<1.0	<1.0	<1.0
Zn-D	mg/L	0.0007	0.00068	0.0004	0.00165	0.00099	0.00097
Zn-T	mg/L	<0.0010	0.00019	<0.0010	0.00031	0.00036	0.00016

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River Downstream 1					
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2025/12/28	2025/12/30	2025/12/31	2026/01/03	2026/01/06	2026/01/07
Acidity#3	mg/L	1.9	1.7	2	<1.0	1	<1.0
Ag-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ag-T	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Al-D	mg/L	0.0208	0.0189	0.0202	0.0195	0.0234	0.0234
Al-T	mg/L	0.0382	0.0349	0.0258	0.0258	0.0292	0.0288
Alk-T	mg/L	37	40	42	39	36	38
As-D	mg/L	0.000490	0.000561	0.000606	0.000449	0.000417	0.000468
As-T	mg/L	0.000582	0.000644	0.000649	0.000548	0.000519	0.000499
B-D	mg/L	0.042	0.045	0.055	0.046	0.048	0.047
B-T	mg/L	0.047	0.051	0.054	0.046	0.044	0.047
Ba-D	mg/L	0.00259	0.00278	0.00311	0.0026	0.00259	0.00255
Ba-T	mg/L	0.00287	0.0032	0.00315	0.00276	0.00269	0.00262
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Bi-T	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.1	12.2	13.7	12.1	11.9	12
Ca-T	mg/L	12.0	13.1	12.9	11.9	11.9	11.6
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Cd-T	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000340	0.0000377	0.000041	0.0000328	0.0000292	0.0000284
Co-T	mg/L	0.0000479	0.0000513	0.0000435	0.0000366	0.0000304	0.0000343
Cond-F	uS/cm	133.3	172.8	147.5		129	138.5
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	<0.00010
Cr-T	mg/L	0.00012	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Cu-D	mg/L	0.000664	0.000548	0.000573	0.000558	0.000516	0.000516
Cu-T	mg/L	0.000705	0.000704	0.000628	0.000577	0.000581	0.00057
DOC	mg/L	2.5	2.4	2.4	2.3	2.6	2.7
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0333	0.0348	0.0378	0.0323	0.0345	0.0392
Fe-T	mg/L	0.108	0.139	0.0939	0.0887	0.0804	0.0742
Hard-D	mg/L	36.0	36.6	41	36.7	36.7	36.7
Hard-T	mg/L	36.7	39.4	39	36	36.1	35.4
K-D	mg/L	0.254	0.273	0.297	0.243	0.25	0.248
K-T	mg/L	0.271	0.294	0.294	0.244	0.234	0.249
Li-D	mg/L	0.00086	0.00096	0.00097	0.00072	0.00079	0.00066
Li-T	mg/L	0.00081	0.00091	0.00094	0.00085	0.00071	0.00069
Mg-D	mg/L	1.39	1.53	1.66	1.55	1.69	1.63
Mg-T	mg/L	1.62	1.64	1.64	1.53	1.53	1.58
Mn-D	mg/L	0.0115	0.0132	0.0141	0.0101	0.00875	0.00894
Mn-T	mg/L	0.0141	0.0164	0.0151	0.0116	0.00951	0.0103
Mo-D	mg/L	0.000204	0.000174	0.000183	0.00016	0.000168	0.000183
Mo-T	mg/L	0.000177	0.000178	0.000157	0.000173	0.000168	0.000174
Na-D	mg/L	9.99	11.8	14.2	12.9	12.9	12.8
Na-T	mg/L	12.0	13.8	14.2	12.3	11.4	12.7
Ni-D	mg/L	0.000090	0.000089	0.000096	0.000094	0.000057	0.000085
Ni-T	mg/L	0.000107	0.000105	0.000109	0.00008	0.000071	0.000067
Pb-D	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Pb-T	mg/L	0.0000087	<0.000050	<0.000050	0.0000051	<0.000050	<0.000050
pH-F	pH Units	6.62	7.73	6.31		6.24	7.12
S-D	mg/L	8.3	9	10.5	8.5	9.1	9
S-T	mg/L	8.4	9	9.9	8.4	8.4	9
Se-D	mg/L	0.000055	0.000049	0.000049	0.000049	0.000068	0.000042
Se-T	mg/L	0.000054	0.000054	0.00005	0.000056	<0.000040	0.000049
Si-D	mg/L	2.32	2.2	2.63	2.31	2.51	2.57
Si-T	mg/L	2.25	2.31	2.45	2.39	2.45	2.42
SO4-D	mg/L	26	30	31	27	27	27
Sr-D	mg/L	0.0653	0.0701	0.078	0.0632	0.0647	0.0616
Sr-T	mg/L	0.0668	0.0764	0.0733	0.0614	0.0636	0.0645
Temp-F	C	4.4	4.4	3.9		4.8	4.1
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00128	0.0009	<0.00050	<0.00050	<0.00050	0.0005
TI-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00144	0.00075	0.00032	0.00039	0.00061	0.00052
Zn-T	mg/L	0.00031	0.00011	0.00016	<0.00010	0.00011	0.00014

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam						
Station Name		Quinsam River Downstream 1				
Stn.Code		QRDS1	QRDS1	QRDS1	QRDS1	QRDS1
Date		2026/01/08	2026/01/19	2026/02/02	2026/03/02	2026/03/30
Acidity83	mg/L	2.8	<1.0	1.4	<1.0	1.7
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Al-D	mg/L	0.0195	0.0239	0.0281	0.0241	0.0198
Al-T	mg/L	0.0282	0.0431	0.0454	0.0333	0.0326
Alk-T	mg/L	39	29	27	36	40
As-D	mg/L	0.000411	0.000337	0.000224	0.000667	0.00055
As-T	mg/L	0.000457	0.000373	0.000234	0.0007	0.000598
B-D	mg/L	0.05	0.025	0.02	0.044	0.045
B-T	mg/L	0.05	0.024	0.018	0.045	0.055
Ba-D	mg/L	0.00249	0.00185	0.00155	0.003	0.00272
Ba-T	mg/L	0.00265	0.00198	0.00164	0.00318	0.00288
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	11.4	9.55	8.83	11.1	12.6
Ca-T	mg/L	11.9	9.58	7.7	11.5	13.3
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000286	0.0000259	0.000029	0.0000378	0.0000777
Co-T	mg/L	0.0000342	0.0000343	0.000036	0.0000468	0.000088
Cond-F	uS/cm	149.1	90.4	79.2	146.2	147.9
Cr-D	mg/L	<0.00010	0.00012	0.0001	0.00025	<0.00010
Cr-T	mg/L	<0.00010	0.00012	0.00011	0.00141	0.00011
Cu-D	mg/L	0.000542	0.000633	0.000593	0.000585	0.000693
Cu-T	mg/L	0.000588	0.000762	0.00064	0.000906	0.00065
DOC	mg/L	2.7	2.7	3.2	2.6	2.3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0357	0.0234	0.0265	0.0377	0.0366
Fe-T	mg/L	0.0893	0.0718	0.0575	0.0844	0.0945
Hard-D	mg/L	34.6	28.6	26.9	34.1	37.4
Hard-T	mg/L	36	28.6	23.6	35.1	40.4
K-D	mg/L	0.233	0.163	0.132	0.245	0.262
K-T	mg/L	0.246	0.163	<0.25	0.253	0.27
Li-D	mg/L	0.0007	<0.00050	<0.00050	0.00085	0.00074
Li-T	mg/L	0.00078	<0.00050	<0.00050	0.00088	0.00095
Mg-D	mg/L	1.47	1.15	1.17	1.54	1.46
Mg-T	mg/L	1.54	1.14	1.05	1.55	1.78
Mn-D	mg/L	0.00903	0.00685	0.00537	0.0122	0.0203
Mn-T	mg/L	0.0106	0.00893	0.00641	0.0135	0.0219
Mo-D	mg/L	0.00028	0.000189	0.000221	0.000198	0.000168
Mo-T	mg/L	0.000192	0.000167	0.000145	0.000199	0.000183
Na-D	mg/L	12.5	5.93	5.1	10.5	12.1
Na-T	mg/L	12.6	5.94	4.57	10.8	14
Ni-D	mg/L	0.000087	0.00006	0.000074	0.000158	0.000149
Ni-T	mg/L	0.00008	0.00009	<0.00010	0.000566	0.00018
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	0.0000063	<0.000020	<0.0000050	<0.000020
pH-F	pH Units	7.57	7.82	7.47	7.85	7.65
S-D	mg/L	7.8	4	3.7	7.6	9.2
S-T	mg/L	8.4	4	3.5	7.8	9.7
Se-D	mg/L	0.000047	0.000056	0.000052	0.00006	<0.000040
Se-T	mg/L	0.000051	0.000066	0.00005	<0.000040	0.000044
Si-D	mg/L	2.31	2.31	2.37	2.74	2.36
Si-T	mg/L	2.43	2.3	2.32	2.68	2.56
SO4-D	mg/L	28	13	11	25	30
Sr-D	mg/L	0.0657	0.0374	0.031	0.0639	0.0727
Sr-T	mg/L	0.0658	0.037	0.0294	0.0658	0.0765
Temp-F	C	4.6	4.1	6.7	4.7	4.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	0.00109	<0.0020	0.00092	<0.0020
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00108	0.00061	0.00087	0.00036	0.00055
Zn-T	mg/L	0.00013	0.00018	<0.0010	0.00024	<0.0010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River D/S of RBP (S)					
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2025/04/28	2025/04/29	2025/04/30	2025/05/01	2025/12/10	2025/12/11
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	2.1	<1.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050	<0.000050
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000050	<0.000050
Al-D	mg/L	0.0111	0.0131	0.0124	0.00994	0.0226	0.0221
Al-T	mg/L	0.0183	0.0178	0.0167	0.0173	0.0345	0.0322
Alk-T	mg/L	43	39	41	42	37	36
As-D	mg/L	0.00064	0.00052	0.000575	0.000517	0.000195	0.000172
As-T	mg/L	0.00052	0.00052	0.00049	0.00058	0.000228	0.00019
B-D	mg/L	0.063	0.060	0.063	0.052	0.036	0.037
B-T	mg/L	0.057	0.053	<0.050	0.056	0.046	0.03
Ba-D	mg/L	0.0034	0.0029	0.00279	0.00273	0.00249	0.0024
Ba-T	mg/L	0.0029	0.0026	0.0024	0.0028	0.00276	0.00247
Be-D	mg/L	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.000010
Bi-D	mg/L	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	<0.000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	13.0	12.8	13.2	13.1	12.9	12.5
Ca-T	mg/L	13.1	12.1	11.7	13.1	12.5	12.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000050	<0.000050	<0.000050	<0.000050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000050	<0.000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	<0.00020	<0.00020	0.0000360	0.0000440	0.0000298	0.0000265
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.000037	0.0000371
Cond-F	uS/cm	185	175.6	160.7	162	150.4	127.2
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	0.00012	<0.00010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00011	<0.00010
Cu-D	mg/L	0.00054	0.00056	0.000505	0.000478	0.000493	0.000535
Cu-T	mg/L	0.00066	0.00058	0.00054	0.00059	0.000626	0.000604
DOC	mg/L	2.1	2.1	2.0	2.0	2.6	2.8
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.124	0.123	0.128	0.138	0.04	0.0395
Fe-T	mg/L	0.217	0.196	0.188	0.226	0.132	0.124
Hard-D	mg/L	39.5	39.1	39.7	39.2	38.4	37.7
Hard-T	mg/L	39.3	36.5	35.1	39.3	38.2	36.8
K-D	mg/L	0.299	0.302	0.285	0.274	0.248	0.224
K-T	mg/L	0.287	0.265	0.244	0.280	0.256	0.228
Li-D	mg/L	<0.0020	<0.0020	0.00100	0.00085	<0.00050	<0.00050
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00059	<0.00050
Mg-D	mg/L	1.69	1.72	1.65	1.58	1.52	1.57
Mg-T	mg/L	1.61	1.55	1.46	1.58	1.67	1.53
Mn-D	mg/L	0.0248	0.0246	0.0239	0.0252	0.0161	0.0144
Mn-T	mg/L	0.0271	0.0245	0.0237	0.0274	0.02	0.0175
Mo-D	mg/L	<0.0010	<0.0010	0.000252	0.000569	0.000172	0.000228
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000174	0.000173
Na-D	mg/L	16.5	16.5	15.7	15.2	11	10.8
Na-T	mg/L	15.6	14.1	13.9	14.7	12.2	10.7
Ni-D	mg/L	<0.0010	<0.0010	0.000091	0.000076	0.000479	0.00008
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000117	0.000084
Pb-D	mg/L	<0.00020	<0.00020	<0.000050	0.0000050	0.0000081	<0.000050
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000825	0.000005
pH-F	pH Units	7.78	7.84	7.57	7.74	6.47	6.56
S-D	mg/L	11.6	12.1	11.0	9.9	9	8.4
S-T	mg/L	11.7	9.6	8.8	10.1	9.9	8.4
Se-D	mg/L	<0.00010	<0.00010	0.000057	0.000058	0.000044	0.000051
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000052	0.00005
Si-D	mg/L	1.91	1.91	2.11	1.80	2.57	2.59
Si-T	mg/L	2.00	1.87	1.73	1.86	2.48	2.35
SO4-D	mg/L	34	33	32	32	29	27
Sr-D	mg/L	0.0809	0.0829	0.0784	0.0722	0.0684	0.069
Sr-T	mg/L	0.0775	0.0719	0.0664	0.0734	0.0739	0.0625
Temp-F	C	12.8	13.6	13.5	13.9	6.47	6.81
Ti-D	mg/L	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00077	0.00065
Tl-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
TSS	mg/L	<1.0	<1.0	1.2	1.6	<1.0	1.2
Zn-D	mg/L	0.0268	<0.0050	0.00197	0.00328	0.00149	0.00126
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0004	0.00025

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River D/S of RBP (S)					
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2025/12/12	2025/12/14	2025/12/15	2025/12/16	2025/12/17	2025/12/18
Acidity83	mg/L	1.3	<1.0	<1.0	<1.0	<1.0	1.7
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.000010	<0.0000050
Al-D	mg/L	0.0248	0.0244	0.0227	0.0276	0.0267	0.0255
Al-T	mg/L	0.0415	0.0423	0.0492	0.0726	0.0338	0.0566
Alk-T	mg/L	35	34	35	29	28	30
As-D	mg/L	0.000180	0.000172	0.000167	0.000121	0.000141	0.000122
As-T	mg/L	0.000219	0.000207	0.000208	0.000162	0.000184	0.000146
B-D	mg/L	0.037	0.038	0.039	0.029	0.026	0.022
B-T	mg/L	0.041	0.039	0.04	0.027	0.025	0.026
Ba-D	mg/L	0.00225	0.00222	0.0024	0.00195	0.00175	0.00183
Ba-T	mg/L	0.00245	0.0027	0.00258	0.00218	0.00205	0.00206
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.2	12	12.2	9.55	9.42	9.57
Ca-T	mg/L	12.0	13.4	13.1	9.09	11.1	10.1
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000011
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000303	0.0000296	0.0000253	0.000028	0.000024	0.000026
Co-T	mg/L	0.0000428	0.000049	0.0000467	0.000062	0.000028	0.000046
Cond-F	uS/cm	163.6	143.1	119.5	100.2	94.7	97.8
Cr-D	mg/L	<0.00010	0.0001	<0.00010	0.00011	0.0001	<0.00010
Cr-T	mg/L	0.00010	0.00014	0.00012	0.00018	0.0001	0.00012
Cu-D	mg/L	0.000583	0.000671	0.00056	0.00061	0.000632	0.000708
Cu-T	mg/L	0.000647	0.00136	0.000699	0.00134	0.00068	0.000772
DOC	mg/L	2.9	2.7	2.8	2.9	2.9	2.9
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0407	0.0377	0.0366	0.0316	0.0269	0.0271
Fe-T	mg/L	0.134	0.151	0.142	0.13	0.0304	0.0995
Hard-D	mg/L	36.5	35.9	36.8	29	28.2	28.9
Hard-T	mg/L	36.2	40.2	39.4	27.5	32.6	30.7
K-D	mg/L	0.221	0.242	0.237	0.186	0.166	0.244
K-T	mg/L	0.230	0.27	0.242	<0.25	<0.25	0.185
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.47	1.47	1.54	1.26	1.12	1.21
Mg-T	mg/L	1.50	1.66	1.61	1.17	1.17	1.31
Mn-D	mg/L	0.0134	0.0168	0.0144	0.00947	0.00853	0.00986
Mn-T	mg/L	0.0183	0.0196	0.019	0.015	0.00719	0.0123
Mo-D	mg/L	0.000199	0.000199	0.000199	0.000306	0.000196	0.00148
Mo-T	mg/L	0.000164	0.000253	0.00017	0.000179	0.000135	0.000177
Na-D	mg/L	10.5	11.7	11	7.34	6.17	6.39
Na-T	mg/L	11.1	11.9	11.2	6.99	6.5	7.26
Ni-D	mg/L	0.000082	0.000095	0.000086	0.000084	0.000089	0.000078
Ni-T	mg/L	0.000099	0.00049	0.000135	0.00015	0.00012	0.000103
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000034
Pb-T	mg/L	0.0000071	0.000055	0.0000095	0.000043	<0.000020	0.00001
pH-F	pH Units	7.61	7.56	7.53	7.63	7.74	7.68
S-D	mg/L	8.0	8.4	8.6	5.9	5	5.4
S-T	mg/L	8.4	9.2	8.9	5.4	5.2	5.8
Se-D	mg/L	0.000046	0.000053	0.00005	0.000057	0.000055	0.000051
Se-T	mg/L	0.000050	0.000061	0.000054	0.000046	0.000059	0.000056
Si-D	mg/L	2.58	2.45	2.36	2.43	2.4	2.25
Si-T	mg/L	2.61	2.73	2.62	2.35	2.53	2.6
SO4-D	mg/L	26	24	28	19	17	18
Sr-D	mg/L	0.0624	0.0632	0.0663	0.0448	0.0414	0.0397
Sr-T	mg/L	0.0639	0.0709	0.0652	0.043	0.0469	0.0438
Temp-F	C	6.691	7.632	7.657	6.901	6.07	6.3
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00083	<0.0020	0.00161	0.0027	<0.0020	0.0012
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	3.2	2.4	2	1.2	<1.0
Zn-D	mg/L	0.00094	0.00069	0.00057	0.00103	0.0006	0.00609
Zn-T	mg/L	0.00011	0.0036	0.00088	<0.0010	<0.0010	0.00029

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River D/S of RBP (S)					
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2025/12/19	2025/12/22	2025/12/23	2025/12/24	2025/12/28	2025/12/30
Acidity#3	mg/L	<1.0	<1.0	<1.0	1.5	1.6	1.4
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0247	0.0263	0.0231	0.0214	0.0202	0.0199
Al-T	mg/L	0.0444	0.0387	0.0342	0.0366	0.0387	0.0317
Alk-T	mg/L	27	35	36	37	50	46
As-D	mg/L	0.000141	0.000174	0.000188	0.00018	0.000231	0.000235
As-T	mg/L	0.000152	0.000205	0.000198	0.000217	0.000300	0.000289
B-D	mg/L	0.028	0.041	0.038	0.04	0.060	0.058
B-T	mg/L	0.026	0.039	0.038	0.046	0.070	0.067
Ba-D	mg/L	0.00173	0.00215	0.00226	0.00215	0.00279	0.00285
Ba-T	mg/L	0.00176	0.00213	0.00215	0.00236	0.00334	0.00304
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	0.000012	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	9.75	12.5	12	12.3	15.1	15
Ca-T	mg/L	9.17	12	11.2	12	15.5	15.5
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	0.0000078	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000029	0.000043	0.0000372	0.0000441	0.0000697	0.0000647
Co-T	mg/L	0.000036	0.000044	0.0000503	0.0000511	0.0000815	0.0000775
Cond-F	uS/cm	92.3	118.2	139.8	134.3	172.5	201.1
Cr-D	mg/L	0.00011	<0.00010	0.0001	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00011	0.00011	0.00011	0.00011	0.00014	0.0001
Cu-D	mg/L	0.00058	0.000599	0.000596	0.000612	0.000572	0.000588
Cu-T	mg/L	0.00085	0.000647	0.000724	0.000738	0.000760	0.000691
DOC	mg/L	2.9	2.6	2.7	2.8	3.0	2.3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0251	0.0267	0.0232	0.0264	0.0284	0.0291
Fe-T	mg/L	0.0966	0.127	0.108	0.13	0.219	0.17
Hard-D	mg/L	29.4	37.2	35.9	36.2	45.0	44.7
Hard-T	mg/L	27.6	35.7	34	36.3	46.6	46.4
K-D	mg/L	0.178	0.242	0.249	0.255	0.371	0.354
K-T	mg/L	<0.25	0.226	0.239	0.267	0.402	0.387
Li-D	mg/L	<0.00050	<0.00050	<0.00050	0.00061	0.00085	0.00084
Li-T	mg/L	<0.00050	<0.00050	<0.00050	0.00051	0.00084	0.0008
Mg-D	mg/L	1.23	1.45	1.43	1.35	1.75	1.76
Mg-T	mg/L	1.15	1.42	1.46	1.53	1.92	1.9
Mn-D	mg/L	0.00985	0.0165	0.0161	0.0168	0.0275	0.026
Mn-T	mg/L	0.0114	0.016	0.0161	0.019	0.0300	0.0288
Mo-D	mg/L	0.000215	0.000227	0.000468	0.00029	0.000206	0.000198
Mo-T	mg/L	0.000167	0.000179	0.000173	0.000171	0.000185	0.000178
Na-D	mg/L	7.28	11.9	12	10.8	17.5	17.4
Na-T	mg/L	7.04	11.2	10.8	13.2	20.1	20.1
Ni-D	mg/L	0.000088	0.0001	0.000093	0.000093	0.000136	0.000138
Ni-T	mg/L	0.00011	0.000088	0.000106	0.000116	0.000163	0.000148
Pb-D	mg/L	<0.0000050	0.000011	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	0.00003	0.000005	0.0000131	0.000005	0.0000115	<0.0000050
pH-F	pH Units	7.58	7.6	7.84	7.68	7.64	7.81
S-D	mg/L	5.6	8.8	10.5	9.1	13.6	12.7
S-T	mg/L	5.1	8	8.3	9.8	14.2	13.6
Se-D	mg/L	0.000061	0.000057	0.000048	0.00006	0.000052	0.000046
Se-T	mg/L	0.000047	0.000054	0.000056	0.000063	0.000053	0.000055
Si-D	mg/L	2.36	2.46	2.37	2.26	2.25	2.27
Si-T	mg/L	2.22	2.68	2.31	2.24	2.28	2.22
SO4-D	mg/L	18	25	26	28	45	41
Sr-D	mg/L	0.0398	0.0632	0.0611	0.0644	0.0954	0.0944
Sr-T	mg/L	0.04	0.0601	0.0616	0.0667	0.0959	0.0962
Temp-F	C	5.343	5.01	4.92	4.425	3.585	4.453
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0020	0.00074	0.00062	0.00077	0.00108	0.00073
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	1.2
Zn-D	mg/L	0.00091	0.00155	0.00247	0.00512	0.00136	0.00106
Zn-T	mg/L	<0.0010	0.00015	0.00038	0.00014	0.00062	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River D/S of RBP (S)					
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2025/12/31	2026/01/03	2026/01/06	2026/01/07	2026/01/08	2026/01/19
Acidity#3	mg/L	1.5	<1.0	1.1	<1.0	2.8	1.8
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.02	0.019	0.023	0.0213	0.0195	0.0236
Al-T	mg/L	0.0243	0.026	0.0289	0.0262	0.0254	0.0412
Alk-T	mg/L	49	43	43	46	44	33
As-D	mg/L	0.000257	0.000197	0.000201	0.000211	0.000188	0.000165
As-T	mg/L	0.000281	0.000231	0.000239	0.000239	0.000211	0.000198
B-D	mg/L	0.073	0.057	0.059	0.063	0.062	0.034
B-T	mg/L	0.073	0.055	0.053	0.059	0.063	0.034
Ba-D	mg/L	0.00313	0.00255	0.00268	0.00258	0.00256	0.0019
Ba-T	mg/L	0.00312	0.00268	0.00273	0.00263	0.0027	0.00204
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	16.7	14.2	13.9	14.1	13.1	11
Ca-T	mg/L	15.6	13.8	13.8	13.2	13.2	11
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	0.0000062	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000718	0.0000487	0.0000475	0.0000444	0.0000467	0.0000348
Co-T	mg/L	0.0000712	0.0000544	0.0000492	0.0000462	0.0000501	0.0000434
Cond-F	uS/cm	233.3		182.5	199.5	203.3	152.6
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011
Cu-D	mg/L	0.000566	0.000534	0.000506	0.000486	0.000525	0.000603
Cu-T	mg/L	0.000635	0.000582	0.000597	0.000571	0.000583	0.00069
DOC	mg/L	2.3	2.3	2.6	2.6	2.5	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.029	0.0245	0.0309	0.0283	0.0288	0.0207
Fe-T	mg/L	0.14	0.118	0.109	0.107	0.111	0.101
Hard-D	mg/L	49.9	42.7	42.5	42.7	39.6	33
Hard-T	mg/L	47	41.7	41.4	39.8	40.2	32.9
K-D	mg/L	0.42	0.305	0.312	0.32	0.312	0.216
K-T	mg/L	0.393	0.314	0.295	0.304	0.321	0.215
Li-D	mg/L	0.0009	0.00068	0.00071	0.00066	0.00066	<0.00050
Li-T	mg/L	0.00089	0.00069	0.00068	0.00068	0.00072	<0.00050
Mg-D	mg/L	2.03	1.74	1.88	1.82	1.67	1.32
Mg-T	mg/L	1.93	1.73	1.68	1.66	1.73	1.3
Mn-D	mg/L	0.0298	0.0192	0.0171	0.0181	0.0186	0.0139
Mn-T	mg/L	0.0291	0.0204	0.0171	0.0183	0.0196	0.017
Mo-D	mg/L	0.00019	0.00018	0.00017	0.000338	0.000349	0.000291
Mo-T	mg/L	0.000169	0.000172	0.000183	0.000164	0.000191	0.00017
Na-D	mg/L	22.4	17.1	17.4	17.7	17.6	9.59
Na-T	mg/L	21.3	17.3	15.8	16.3	17.9	9.83
Ni-D	mg/L	0.000164	0.000105	0.000091	0.000103	0.000118	0.000084
Ni-T	mg/L	0.000144	0.000104	0.000106	0.000114	0.000121	0.000096
Pb-D	mg/L	<0.0000050	<0.0000050	0.000006	<0.0000050	0.0000061	0.0000068
Pb-T	mg/L	<0.0000050	0.0000051	0.0000077	<0.0000050	<0.0000050	0.000005
pH-F	pH Units	6.68		6.63	6.67	7.12	6.38
S-D	mg/L	16	11.7	12.2	12.8	11	6.8
S-T	mg/L	14.9	12.4	11.9	12.1	12.1	6.4
Se-D	mg/L	0.000047	0.000053	0.000073	<0.000040	0.000045	0.000056
Se-T	mg/L	0.000051	0.000061	0.000092	0.000052	0.000044	0.000075
Si-D	mg/L	2.55	2.29	2.54	2.49	2.24	2.32
Si-T	mg/L	2.4	2.36	2.49	2.41	2.41	2.37
SO4-D	mg/L	46	37	37	39	37	23
Sr-D	mg/L	0.106	0.082	0.0833	0.0866	0.0835	0.0504
Sr-T	mg/L	0.104	0.0838	0.0812	0.0834	0.0859	0.0509
Temp-F	C	5.385		4.156	4.077	4.809	5.803
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00118
Ti-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Ti-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Zn-D	mg/L	0.00119	0.00077	0.00039	0.00132	0.00153	0.00112
Zn-T	mg/L	<0.00010	<0.00010	0.00013	0.00075	0.00016	0.00015

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Quinsam River D/S of RBP (S)					
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2026/01/26	2026/01/29	2026/02/02	2026/02/05	2026/02/09	2026/02/23
Acidity#3	mg/L		1.5	1.4		<1.0	
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0209	0.0308	0.0254	0.0284	0.0233	0.0293
Al-T	mg/L	0.0308	0.0197	0.043	0.0362	0.0386	0.0459
Alk-T	mg/L	55	53	33	38	37	41
As-D	mg/L	0.000269	0.000294	0.000164	0.000175	0.000162	0.000262
As-T	mg/L	0.000297	0.000223	0.000184	0.00017	0.000196	0.000297
B-D	mg/L	0.087	0.083	0.036	0.05	0.041	0.064
B-T	mg/L	0.077	0.072	0.042	0.047	0.045	0.057
Ba-D	mg/L	0.00309	0.00314	0.00175	0.00207	0.00193	0.00332
Ba-T	mg/L	0.00305	0.00285	0.00203	0.002	0.00202	0.00337
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	16.9	17.6	11.1	12.4	11.5	15.5
Ca-T	mg/L	16.1	15.3	11.7	11	11.4	14.9
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000117	0.000139	0.0000682	0.0000877	0.0000881	0.0000724
Co-T	mg/L	0.00012	0.000115	0.0000784	0.0000871	0.0000868	0.0000866
Cond-F	uS/cm	1780.5	243.3	118.3	136	129.5	208.6
Cr-D	mg/L	<0.00010	0.00012	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	<0.00010	0.00011	<0.00010	0.00011	0.0001
Cu-D	mg/L	0.000555	0.000726	0.000569	0.000609	0.000603	0.000495
Cu-T	mg/L	0.000728	0.000539	0.000709	0.000668	0.000662	0.000592
DOC	mg/L	2.4	2.8	3	2.7	3	1.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0569	0.208	0.0387	0.037	0.0358	0.0365
Fe-T	mg/L	0.197	0.0537	0.106	0.104	0.107	0.112
Hard-D	mg/L	51.1	52.3	33.2	37.3	34.1	47.3
Hard-T	mg/L	48.2	45.5	34.6	33.1	34.3	44.8
K-D	mg/L	0.476	0.487	0.223	0.272	0.251	0.364
K-T	mg/L	0.445	0.413	0.245	0.255	0.24	0.355
Li-D	mg/L	0.00116	0.00109	<0.00050	0.00055	0.00061	0.00079
Li-T	mg/L	0.00113	0.00086	<0.00050	0.00054	0.00055	0.00081
Mg-D	mg/L	2.15	2.03	1.34	1.53	1.29	2.08
Mg-T	mg/L	1.96	1.79	1.33	1.36	1.42	1.88
Mn-D	mg/L	0.0429	0.0464	0.0167	0.0224	0.0203	0.025
Mn-T	mg/L	0.0418	0.0377	0.0199	0.022	0.0188	0.0265
Mo-D	mg/L	0.000226	0.000191	0.000215	0.00057	0.000339	0.000237
Mo-T	mg/L	0.000176	0.000248	0.000163	0.00017	0.000168	0.000115
Na-D	mg/L	26.2	25.3	11.3	13.6	11.3	16.8
Na-T	mg/L	23.2	22.9	11.6	12.6	11	15.8
Ni-D	mg/L	0.000194	0.00024	0.000133	0.000173	0.000163	0.000147
Ni-T	mg/L	0.000186	0.000223	0.000147	0.000165	0.000155	0.000167
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050
Pb-T	mg/L	0.0000056	<0.0000050	<0.0000050	<0.0000050	0.0000051	<0.0000050
pH-F	pH Units	6.67	6.61	6.38	6.64	7.11	6.86
S-D	mg/L	17.5	17.2	7.5	10.2	8.8	14.3
S-T	mg/L	15.9	16.3	8.4	8.7	7.5	13.4
Se-D	mg/L	0.000059	0.000054	0.000048	0.000057	0.000057	<0.000040
Se-T	mg/L	0.000059	0.000044	0.00005	0.000043	<0.000040	0.000042
Si-D	mg/L	2.28	2.5	2.26	2.59	2.14	2.63
Si-T	mg/L	2.25	2.21	2.45	2.3	2.5	2.77
SO4-D	mg/L	53	45	20	24	26	39
Sr-D	mg/L	0.121	0.112	0.0509	0.0618	0.0559	0.0924
Sr-T	mg/L	0.11	0.107	0.0549	0.0569	0.0553	0.0877
Temp-F	C	9.267	5	5.5	6.1	7.28	4.28
Ti-D	mg/L	<0.00050	0.0006	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00054	<0.00050	0.00101	0.00071	0.00095	0.0012
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00112	<0.00010	0.00074	0.00199	0.00227	0.00123
Zn-T	mg/L	0.00014	0.00114	0.00011	0.00012	0.00019	0.00019

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S of RBP (S)								
Stn.Code		QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA	QRDSA
Date		2026/02/25	2026/03/02	2026/03/04	2026/03/09	2026/03/11	2026/03/16	2026/03/18	2026/03/23	2026/03/25
Acidity83	mg/L	1.6		2.1	1.4	1	<1.0	<1.0	<1.0	1.4
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0264	0.0248	0.0232	0.0205	0.0215	0.0209	0.0246	0.0226	0.0245
Al-T	mg/L	0.0198	0.0323	0.0296	0.0277	0.0275	0.0299	0.0464	0.0335	0.0304
Alk-T	mg/L	50	42	45	43	46	69	46	38	44
As-D	mg/L	0.000319	0.000287	0.000268	0.000287	0.000289	0.000361	0.000286	0.000197	0.000206
As-T	mg/L	0.000296	0.000287	0.000309	0.000329	0.000336	0.00045	0.000333	0.000211	0.000207
B-D	mg/L	0.087	0.054	0.064	0.06	0.065	0.119	0.066	0.056	0.062
B-T	mg/L	0.078	0.059	0.062	0.051	0.07	0.121	0.075	0.05	0.054
Ba-D	mg/L	0.00364	0.00305	0.00316	0.00318	0.00339	0.00443	0.00357	0.00227	0.00262
Ba-T	mg/L	0.00295	0.00291	0.00324	0.00305	0.00356	0.00467	0.00385	0.00238	0.00252
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	16.9	13	14.5	14.6	15.4	23.6	16.4	12.7	13.8
Ca-T	mg/L	15.3	13.5	14.5	12.9	16.4	23.6	17.4	13.1	14.1
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000116	0.0000591	0.0000745	0.0000688	0.0000713	0.000193	0.000102	0.000116	0.000132
Co-T	mg/L	0.000061	0.00006	0.0000834	0.0000669	0.0000854	0.000206	0.00012	0.000128	0.000132
Cond-F	uS/cm	250.6	163.5	184.4	163.9	208.5	268.3	176.2	141	183.3
Cr-D	mg/L	0.00132	0.00136	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	0.0003	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	0.00011	<0.00010
Cu-D	mg/L	0.000723	0.000628	0.000546	0.000482	0.000532	0.000477	0.000513	0.000566	0.000583
Cu-T	mg/L	0.000536	0.000608	0.000591	0.000586	0.000613	0.000646	0.000573	0.000697	0.000669
DOC	mg/L	2.6	2.7	2.6	2.2	2.4	2.3	2.5	2.5	2.3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0601	0.0295	0.0257	0.0257	0.0263	0.0718	0.0523	0.0331	0.0415
Fe-T	mg/L	0.0513	0.102	0.106	0.0908	0.115	0.233	0.156	0.0989	0.112
Hard-D	mg/L	51.5	39.5	44.1	44.1	47	71.3	50	38.2	42
Hard-T	mg/L	46.9	41.2	43.9	39.4	49.8	70.7	53.4	39.1	42.4
K-D	mg/L	0.457	0.309	0.355	0.324	0.354	0.71	0.372	0.271	0.33
K-T	mg/L	0.447	0.306	0.341	0.29	0.376	0.663	0.382	0.286	0.306
Li-D	mg/L	0.00108	0.00071	0.00094	0.00086	0.00083	0.00157	0.00092	0.00096	0.00078
Li-T	mg/L	0.00108	0.00072	0.00092	0.00069	0.00092	0.00157	0.00102	0.00057	0.00059
Mg-D	mg/L	2.25	1.69	1.92	1.86	2.1	3.03	2.18	1.57	1.86
Mg-T	mg/L	2.13	1.8	1.88	1.73	2.13	2.87	2.42	1.58	1.71
Mn-D	mg/L	0.0419	0.0204	0.0252	0.0212	0.0235	0.0619	0.0297	0.0277	0.033
Mn-T	mg/L	0.0242	0.0224	0.0252	0.0219	0.0267	0.0645	0.0342	0.0283	0.0298
Mo-D	mg/L	0.000216	0.000246	0.000203	0.000251	0.000227	0.000186	0.000189	0.000274	0.000179
Mo-T	mg/L	0.000203	0.00018	0.000159	0.000173	0.000168	0.000175	0.00017	0.000171	0.000171
Na-D	mg/L	24	15.1	18.4	15.6	19.2	37.9	17.4	14	17.5
Na-T	mg/L	23.3	15.5	17.4	14.5	20.6	36.3	19.7	15	16.9
Ni-D	mg/L	0.000687	0.000288	0.000169	0.000134	0.000201	0.000306	0.000207	0.000194	0.000219
Ni-T	mg/L	0.000169	0.000222	0.000158	0.000142	0.000184	0.000326	0.000211	0.0002	0.000223
Pb-D	mg/L	<0.0000050	0.0000071	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000057	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000077	<0.0000050	<0.0000050	<0.0000050
pH-F	pH Units	7.1	6.89	7.25	6.7	6.94	6.77	6.87	6.71	7.44
S-D	mg/L	17.5	11.4	13.4	12.1	14.5	25.5	14.9	10	13.2
S-T	mg/L	17	12.1	12.2	10.6	15.6	26.1	16.3	10.9	12.4
Se-D	mg/L	<0.000040	0.000042	0.000044	<0.000040	<0.000040	0.000045	<0.000040	0.000054	0.000048
Se-T	mg/L	0.000051	0.000054	0.000046	<0.000040	0.000052	<0.000040	<0.000040	0.000054	0.000052
Si-D	mg/L	2.75	2.44	2.5	2.71	2.66	2.69	2.56	2.27	2.24
Si-T	mg/L	2.71	2.59	2.42	2.5	2.58	2.66	2.99	2.41	2.4
SO4-D	mg/L	50	36	39	38	43	69	51	30	39
Sr-D	mg/L	0.121	0.0778	0.0901	0.0905	0.101	0.175	0.112	0.0716	0.087
Sr-T	mg/L	0.111	0.0743	0.0893	0.0831	0.108	0.172	0.121	0.0701	0.0768
Temp-F	C	5.321	5.483	5.89	7.105	5.7	6.389	6.06	7.94	6.228
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.00050	0.00061	0.00054	0.00054	<0.00050	0.0009	0.0012	0.00068	0.00051
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	1.2	<1.0	1.2	1.2	<1.0	<1.0
Zn-D	mg/L	0.0007	0.00174	0.00034	0.00095	0.00068	0.0004	0.00119	0.00093	0.00072
Zn-T	mg/L	<0.00010	0.00011	0.00017	0.0001	<0.00010	0.00029	0.00018	0.00019	0.00016

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S Site B								
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2025/04/28	2025/04/29	2025/04/30	2025/05/01	2025/11/20	2025/11/21	2025/11/22	2025/11/23	2025/11/24
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.000020	<0.000020	0.0000060	0.0000060	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0128	0.0116	0.0114	0.0115	0.0188	0.0187	0.0174	0.0167	0.0162
Al-T	mg/L	0.0194	0.0194	0.0181	0.0184	0.0328	0.0251	0.0244	0.0249	0.0263
Alk-T	mg/L	43	43	43	43	34	34	38	34	34
As-D	mg/L	0.00058	0.00060	0.000611	0.000579	0.000274	0.000279	0.000297	0.000258	0.000280
As-T	mg/L	0.00067	0.00058	0.00052	0.00067	0.000341	0.000304	0.000325	0.000302	0.000277
B-D	mg/L	0.064	0.062	0.066	0.054	0.036	0.04	0.043	0.042	0.039
B-T	mg/L	0.056	0.057	0.052	0.059	0.04	0.042	0.044	0.041	0.038
Ba-D	mg/L	0.0033	0.0031	0.00307	0.00295	0.00345	0.0029	0.00290	0.00262	0.00223
Ba-T	mg/L	0.0030	0.0029	0.0027	0.0031	0.00381	0.00297	0.00297	0.00270	0.00241
Be-D	mg/L	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0010	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.8	13.1	13.4	13.0	12.2	13	13.3	13.0	11.9
Ca-T	mg/L	12.2	12.6	12.2	13.2	12.4	12.6	13.5	12.8	12.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	<0.00020	<0.00020	0.0000340	0.0000390	0.000029	0.0000257	0.0000234	0.0000230	0.0000206
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000397	0.0000283	0.0000244	0.0000221	0.0000204
Cond-F	uS/cm	181.7	183.3	165.5	164.8	120.3	129.2	134.2	133	124.4
Cr-D	mg/L	<0.0010	<0.0010	<0.00010	<0.00010	0.00016	0.00014	0.00016	0.00029	0.00019
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00014	0.00014	0.00013	0.00014	0.00016
Cu-D	mg/L	0.00080	0.00050	0.000472	0.000541	0.000538	0.000523	0.000577	0.000614	0.000671
Cu-T	mg/L	0.00061	0.00057	0.00055	0.00063	0.000668	0.000551	0.000524	0.000514	0.000511
DOC	mg/L	2.1	2.0	2.1	2.0	2.5	2.6	2.8	2.9	2.8
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.110	0.119	0.126	0.130	0.0255	0.031	0.0319	0.0307	0.0278
Fe-T	mg/L	0.181	0.190	0.196	0.222	0.0614	0.0606	0.0727	0.0837	0.0849
Hard-D	mg/L	39.0	39.4	40.5	39.2	36.7	38.9	40.1	39.3	35.9
Hard-T	mg/L	37.0	38.5	36.9	39.6	37.6	38.2	40.9	38.6	36.9
K-D	mg/L	0.292	0.286	0.292	0.293	0.241	0.245	0.256	0.248	0.238
K-T	mg/L	0.280	0.288	0.270	0.288	0.249	0.245	0.259	0.240	0.219
Li-D	mg/L	<0.0020	<0.0020	0.00108	0.00095	<0.00050	0.00057	0.00057	0.00054	0.00055
Li-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.00057	0.00063	0.00056	0.00051	<0.00050
Mg-D	mg/L	1.67	1.63	1.71	1.64	1.53	1.58	1.70	1.67	1.54
Mg-T	mg/L	1.56	1.68	1.58	1.62	1.63	1.63	1.74	1.62	1.55
Mn-D	mg/L	0.0228	0.0237	0.0254	0.0253	0.0118	0.0139	0.0158	0.0143	0.0126
Mn-T	mg/L	0.0239	0.0255	0.0253	0.0280	0.014	0.0152	0.0167	0.0153	0.0136
Mo-D	mg/L	<0.0010	<0.0010	0.000204	0.000238	0.000179	0.000177	0.000179	0.000187	0.000255
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000159	0.000166	0.000169	0.000159	0.000161
Na-D	mg/L	16.2	15.8	16.5	15.6	9.5	11.1	12.5	11.8	10.6
Na-T	mg/L	15.1	15.7	14.9	15.6	10.2	11.4	12.4	11.5	10.7
Ni-D	mg/L	<0.0010	<0.0010	0.000098	0.000109	0.000072	0.000064	0.000070	0.000054	0.000071
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.000101	0.00007	0.000100	0.000059	0.000068
Pb-D	mg/L	<0.00020	<0.00020	<0.0000050	0.0000060	<0.0000050	<0.0000050	<0.0000050	0.0000113	<0.0000050
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0000194	<0.0000050	<0.0000050	<0.0000050	<0.0000050
pH-F	pH Units	7.71	7.84	7.58	7.74	7.3	7.8	8.6	7.4	7.41
S-D	mg/L	11.5	11.2	11.4	10.7	7.8	8.8	7.9	11.1	11.4
S-T	mg/L	11.5	12.5	9.3	10.2	8	9	9.5	8.7	8.0
Se-D	mg/L	<0.00010	<0.00010	0.000052	0.000048	0.000051	0.00005	0.000061	0.000054	0.000052
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.000051	0.00005	0.000049	0.000052	0.000050
Si-D	mg/L	1.90	1.93	2.11	1.81	2.41	2.47	2.50	2.60	2.55
Si-T	mg/L	1.93	1.93	1.79	1.85	2.47	2.49	2.54	2.53	2.46
SO4-D	mg/L	33	34	33	34	25	28	31	27	25
Sr-D	mg/L	0.0776	0.0792	0.0813	0.0724	0.06	0.0667	0.0682	0.0644	0.0605
Sr-T	mg/L	0.0732	0.0765	0.0711	0.0750	0.0629	0.0668	0.0714	0.0691	0.0617
Temp-F	C	12.8	13.4	13.2	13.7	8.4	9.3	7.27	7.1	7.3
Ti-D	mg/L	<0.0050	<0.0050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00060	<0.00050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00115	0.0006	<0.00050	0.00057	<0.00050
TI-D	mg/L	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.6	<1.0	<1.0	1.2	1.6	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	<0.0050	<0.0050	0.00026	0.00080	0.00052	0.00049	0.00065	0.00043	0.00216
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.00091	0.00022	0.00030	0.00019	0.00059

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S Site B								
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2025/11/25	2025/11/26	2025/11/27	2025/12/02	2025/12/05	2025/12/06	2025/12/07	2025/12/08	2025/12/09
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0185	0.0205	0.0165	0.0176	0.0188	0.0178	0.0185	0.0178	0.0216
Al-T	mg/L	0.0236	0.0238	0.0212	0.0224	0.0246	0.0239	0.0375	0.0281	0.0307
Alk-T	mg/L	36		36	32		31	31	34	32
As-D	mg/L	0.000274	0.000276	0.000274	0.000344	0.00034	0.000347	0.000331	0.000318	0.000306
As-T	mg/L	0.000316	0.000303	0.000323	0.000365	0.000386	0.00037	0.000435	0.000419	0.000314
B-D	mg/L	0.042	0.038	0.034	0.04	0.035	0.029	0.028	0.034	0.033
B-T	mg/L	0.038	0.037	0.033	0.036	0.036	0.031	0.028	0.035	0.033
Ba-D	mg/L	0.00237	0.00253	0.00257	0.0026	0.00265	0.00255	0.00247	0.00261	0.00241
Ba-T	mg/L	0.00237	0.00251	0.00256	0.00261	0.00272	0.00262	0.00262	0.0027	0.00249
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00004
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010		<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	12.3	12.5	12.2	11.6	11.2	10.8	10.9	11	11.5
Ca-T	mg/L	12	12.0	11.5	11.2	11.1	10.8	10.4	11.8	12.1
Carb	mg/L	<1.0		<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000128
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0		<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.000019	0.0000162	0.0000167	0.0000201	0.0000207	0.0000199	0.000021	0.0000273	0.0000396
Co-T	mg/L	0.0000209	0.0000204	0.0000226	0.0000217	0.0000261	0.0000255	0.0000331	0.0000316	0.0000303
Cond-F	uS/cm	120	114.7	121.6	110	118	113	113	122	102.6
Cr-D	mg/L	0.00013	0.00014	0.00015	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	0.00015
Cr-T	mg/L	0.00015	0.00014	0.00015	0.00015	<0.00010	<0.00010	0.0001	<0.00010	<0.00010
Cu-D	mg/L	0.000552	0.000548	0.000546	0.000489	0.000595	0.000577	0.000588	0.000597	0.000662
Cu-T	mg/L	0.000607	0.000687	0.000597	0.000568	0.000619	0.000591	0.000648	0.000607	0.000613
DOC	mg/L	2.7	2.9	3.7	2.6		2.5	2.6	2.5	2.7
F-D	mg/L	<0.050		<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0257	0.0280	0.0288	0.0276	0.0284	0.03	0.0303	0.0344	0.0359
Fe-T	mg/L	0.0976	0.0888	0.108	0.0582	0.0644	0.0577	0.112	0.134	0.091
Hard-D	mg/L	37	37.6	36.4	35.1	34.1	32.6	32.7	33.5	34.8
Hard-T	mg/L	36.2	36.4	34.6	34.2	33.9	33	31.4	35.6	36.4
K-D	mg/L	0.223	0.224	0.214	0.206	0.203	0.198	0.204	0.229	0.193
K-T	mg/L	0.229	0.234	0.209	0.202	0.207	0.201	0.202	0.23	0.193
Li-D	mg/L	0.00063	0.00062	0.0006	0.00065	0.00053	<0.00050	<0.00050	0.00053	0.00052
Li-T	mg/L	0.00072	0.00055	0.00064	0.00059	0.00055	0.00055	<0.00050	0.00055	<0.00050
Mg-D	mg/L	1.57	1.53	1.47	1.5	1.49	1.33	1.36	1.46	1.49
Mg-T	mg/L	1.49	1.58	1.44	1.49	1.52	1.46	1.33	1.5	1.53
Mn-D	mg/L	0.0116	0.0126	0.0118	0.00797	0.0082	0.00744	0.00873	0.0131	0.0102
Mn-T	mg/L	0.0139	0.0136	0.0128	0.00928	0.0101	0.00907	0.0123	0.016	0.0133
Mo-D	mg/L	0.000202	0.000180	0.000179	0.000209	0.000178	0.000183	0.000187	0.000245	0.000225
Mo-T	mg/L	0.000169	0.000167	0.000167	0.000174	0.000176	0.000165	0.000159	0.000179	0.000165
Na-D	mg/L	10.3	10.7	9.7	8.67	9.06	7.41	7.76	9.38	8.2
Na-T	mg/L	10.3	10.7	9.49	8.52	8.97	7.64	7.52	9.49	8.14
Ni-D	mg/L	0.000067	0.000076	0.000065	0.000067	0.000092	0.000076	0.000078	0.000081	0.000114
Ni-T	mg/L	0.000084	0.000127	0.000082	0.000078	0.000076	0.000082	0.000094	0.000087	0.00009
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000075	<0.0000050	<0.0000050
pH-F	pH Units	7.28	7.16	7.22	6.95	7.83	7.75	7.88	7.15	7.21
S-D	mg/L	8.3	9.4	8.1	7	7.2	6.4	6.6	7.7	6.7
S-T	mg/L	8.6	8.7	7.8	6.9	6.9	6.7	6.3	7.8	6.6
Se-D	mg/L	0.00005	0.000051	0.000059	0.000056	0.000049	0.000055	0.000048	0.000053	0.000068
Se-T	mg/L	0.000059	0.000054	0.000059	0.000046	0.000051	0.000055	0.000049	0.000055	0.000046
Si-D	mg/L	2.41	2.46	2.27	2.4	2.39	2.3	2.3	2.3	2.47
Si-T	mg/L	2.38	2.35	2.12	2.45	2.41	2.33	2.24	2.38	2.59
SO4-D	mg/L	25		24	21		19	20	24	21
Sr-D	mg/L	0.0625	0.0670	0.0644	0.0556	0.0519	0.0503	0.0493	0.0591	0.0507
Sr-T	mg/L	0.0592	0.0626	0.0613	0.0565	0.0529	0.0496	0.0489	0.0615	0.0531
Temp-F	C	6.8	7.7	8.2	6.8	6.1	5.7	5.9	7.2	5.7
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00066	<0.00050	<0.00050	<0.00050	0.00057	<0.00050	0.00115	0.0008	0.00062
TI-D	mg/L	<0.0000020	<0.0000020	0.0000027	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	0.0000028
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	1.2
Zn-D	mg/L	0.00282	0.00072	0.00124	0.00163	0.00054	0.00115	0.00116	0.002	0.0012
Zn-T	mg/L	0.00033	0.00022	0.00029	0.00029	0.00011	<0.00010	0.00053	0.0001	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S Site B								
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2025/12/10	2025/12/11	2025/12/12	2025/12/14	2025/12/15	2025/12/17	2025/12/18	2025/12/19	2025/12/22
Acidity83	mg/L	1.1	1.2	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050
Al-D	mg/L	0.0183	0.0228	0.0252	0.0241	0.0234	0.0265	0.0253	0.0262	0.0244
Al-T	mg/L	0.0334	0.0348	0.0421	0.0439	0.0496	0.0278	0.0615	0.0509	0.0397
Alk-T	mg/L	31	29	29	29	31	24	26	26	29
As-D	mg/L	0.000236	0.000199	0.000219	0.000203	0.00019	0.000164	0.000123	0.000162	0.000208
As-T	mg/L	0.000305	0.000222	0.000249	0.000261	0.000269	0.000196	0.000167	0.000199	0.000244
B-D	mg/L	0.029	0.028	0.029	0.027	0.029	0.02	0.016	0.021	0.027
B-T	mg/L	0.033	0.022	0.031	0.029	0.028	0.02	0.019	0.02	0.028
Ba-D	mg/L	0.00218	0.002	0.00192	0.00187	0.00212	0.00162	0.00153	0.0015	0.00179
Ba-T	mg/L	0.00238	0.0021	0.00205	0.00225	0.00236	0.0013	0.00189	0.00172	0.00186
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00006	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	0.00002	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.9	10.4	10.3	9.59	10.4	8.75	8.18	8.63	9.58
Ca-T	mg/L	11	9.84	10.1	11	11	7.7	9.03	8.31	10.1
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	0.000005	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000225	0.0000196	0.0000237	0.0000203	0.0000202	0.000024	0.000021	0.000023	0.000024
Co-T	mg/L	0.0000304	0.0000367	0.0000355	0.000037	0.0000354	0.000022	0.000045	0.000041	0.000033
Cond-F	uS/cm	115.2	1081	92.6	93.8	103	75.9	75.4	78.7	89.6
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001
Cr-T	mg/L	<0.00010	0.0001	0.00011	0.00012	0.00011	0.0001	0.00013	0.00013	0.0001
Cu-D	mg/L	0.000417	0.00056	0.000598	0.000564	0.000565	0.0032	0.000614	0.000607	0.000594
Cu-T	mg/L	0.00061	0.000616	0.000631	0.00091	0.000676	0.00077	0.000751	0.00085	0.000645
DOC	mg/L	2.7	2.7	2.8	2.7	2.7	2.9	2.9	2.8	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0329	0.0359	0.0343	0.0277	0.0311	0.0243	0.0217	0.0222	0.0204
Fe-T	mg/L	0.081	0.0815	0.0705	0.0943	0.108	0.0378	0.0874	0.0706	0.0676
Hard-D	mg/L	32.8	31.3	30.9	28.9	31.4	26.1	24.8	25.7	28.9
Hard-T	mg/L	33.8	29.6	30.6	33.1	33.3	23.1	27.2	25.3	30.2
K-D	mg/L	0.18	0.16	0.167	0.163	0.175	0.132	0.134	0.136	0.158
K-T	mg/L	0.193	0.16	0.170	<0.25	0.181	<0.25	0.141	<0.25	0.16
Li-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Li-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Mg-D	mg/L	1.37	1.3	1.25	1.2	1.33	1.03	1.05	1	1.2
Mg-T	mg/L	1.52	1.23	1.31	1.38	1.41	0.94	1.13	1.11	1.25
Mn-D	mg/L	0.00806	0.00647	0.00581	0.00663	0.00583	0.00433	0.00414	0.00422	0.00634
Mn-T	mg/L	0.0107	0.00949	0.00809	0.00985	0.0111	0.00268	0.00788	0.00648	0.00825
Mo-D	mg/L	0.000188	0.000262	0.000214	0.000237	0.000228	0.000271	0.000376	0.000183	0.000256
Mo-T	mg/L	0.000165	0.00017	0.000177	0.000217	0.000169	0.000248	0.000178	0.000176	0.000164
Na-D	mg/L	7.31	6.91	6.94	6.69	7	4.27	4.08	4.17	6.32
Na-T	mg/L	7.96	6.43	6.97	7.67	7.5	4.18	4.41	4.48	6.46
Ni-D	mg/L	0.00007	0.000072	0.000075	0.000069	0.000093	0.000065	0.000066	0.000062	0.000068
Ni-T	mg/L	0.000092	0.000084	0.000087	0.00011	0.000105	<0.00010	0.000115	0.00012	0.000074
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005
Pb-T	mg/L	0.0000067	0.0000088	0.0000128	<0.000020	0.0000063	<0.000020	0.00001	<0.000020	0.000007
pH-F	pH Units	7.5	7.83	7.05	7.26	7.04	7.38	7.79	6.97	7.33
S-D	mg/L	6.3	5.2	5.5	4.8	5.7	3.4	3.5	3.4	5
S-T	mg/L	7.1	5.2	5.4	6	6	3.5	3.4	3.4	4.7
Se-D	mg/L	0.000049	0.000049	0.000048	0.00005	0.000048	0.000062	0.000051	0.000055	0.000056
Se-T	mg/L	0.000051	0.000057	0.000049	0.000066	0.000048	0.000071	0.000056	0.000052	0.000054
Si-D	mg/L	2.37	2.49	2.56	2.41	2.33	2.41	2.13	2.4	2.38
Si-T	mg/L	2.51	2.28	2.61	2.67	2.52	2.58	2.59	2.32	2.52
SO4-D	mg/L	21	18	17	16	19	11	11	11	15
Sr-D	mg/L	0.0534	0.0443	0.0421	0.0407	0.0457	0.0325	0.0298	0.0293	0.0375
Sr-T	mg/L	0.0535	0.0411	0.0432	0.0466	0.0461	0.0292	0.0332	0.0306	0.0388
Temp-F	C	8.7	7.1	6.6	8.4	7.8	6.7	6.2	6.8	5.3
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00072	0.00089	0.00181	<0.0020	0.00127	<0.0020	0.00147	<0.0020	0.00119
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	1.2	<1.0	2	2	1.6	<1.0	1.6	<1.0
Zn-D	mg/L	0.00074	0.00079	0.00096	0.00118	0.00088	0.00116	0.00108	0.00034	0.00074
Zn-T	mg/L	0.00014	0.00012	<0.00010	<0.0010	0.00013	<0.0010	0.00014	0.0023	0.00014

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S Site B								
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2025/12/23	2025/12/24	2025/12/28	2025/12/30	2025/12/31	2026/01/03	2026/01/06	2026/01/07	2026/01/08
Acidity83	mg/L	<1.0	1.8	1.8	1.7	1.9	<1.0	1	<1.0	2.6
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0221	0.0204	0.0194	0.0196	0.0199	0.0196	0.0223	0.0216	0.0195
Al-T	mg/L	0.0366	0.0394	0.0405	0.0312	0.025	0.0291	0.0283	0.0282	0.0287
Alk-T	mg/L	31	31	35	38	39	38	38	38	37
As-D	mg/L	0.000236	0.000233	0.000322	0.000358	0.000388	0.000295	0.000291	0.000298	0.000274
As-T	mg/L	0.000247	0.000281	0.000404	0.000399	0.000414	0.00037	0.000334	0.000331	0.000303
B-D	mg/L	0.027	0.03	0.039	0.042	0.051	0.045	0.046	0.047	0.048
B-T	mg/L	0.028	0.032	0.044	0.048	0.052	0.043	0.042	0.046	0.049
Ba-D	mg/L	0.00189	0.00189	0.00234	0.0025	0.00264	0.00227	0.00233	0.00228	0.00228
Ba-T	mg/L	0.00191	0.0021	0.00253	0.00273	0.00267	0.00249	0.00245	0.00237	0.00235
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.3	10.2	11.8	12.3	13	12.1	11.8	12.5	11.2
Ca-T	mg/L	10.1	10	12.1	12	12.6	11.8	11.6	11.3	11.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	0.000008	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000256	0.0000254	0.0000356	0.0000376	0.0000401	0.0000301	0.0000284	0.0000277	0.000031
Co-T	mg/L	0.0000417	0.000039	0.0000530	0.0000461	0.0000437	0.0000372	0.0000327	0.0000315	0.0000376
Cond-F	uS/cm	96.2	104.5	128.1	137.5	150.3	132.9	132.9	144	144
Cr-D	mg/L	<0.00010	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	0.00013	0.00011	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cu-D	mg/L	0.000618	0.00059	0.000580	0.000574	0.000571	0.000557	0.00051	0.000512	0.000524
Cu-T	mg/L	0.000711	0.000706	0.000723	0.000665	0.000619	0.00064	0.0006	0.000568	0.000589
DOC	mg/L	2.7	2.7	2.3	2.3	2.4	2.2	2.5	2.6	2.5
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0209	0.0215	0.0241	0.0253	0.0269	0.025	0.0279	0.0291	0.0277
Fe-T	mg/L	0.0702	0.0806	0.129	0.0842	0.081	0.0805	0.0772	0.072	0.0777
Hard-D	mg/L	30.8	30.4	35.2	36.5	38.9	36.6	36.1	37.7	34
Hard-T	mg/L	30.4	30.7	36.8	36.5	37.8	36	35.2	34.1	34.4
K-D	mg/L	0.167	0.182	0.233	0.259	0.27	0.227	0.238	0.24	0.229
K-T	mg/L	0.17	0.192	0.252	0.251	0.259	0.242	0.229	0.233	0.243
Li-D	mg/L	<0.00050	<0.00050	0.00065	0.00081	0.00073	0.0006	0.00065	0.00054	0.00063
Li-T	mg/L	<0.00050	<0.00050	0.00061	0.00067	0.00075	0.00062	0.00063	0.00059	0.00067
Mg-D	mg/L	1.22	1.17	1.40	1.39	1.55	1.55	1.62	1.57	1.46
Mg-T	mg/L	1.22	1.38	1.58	1.56	1.56	1.56	1.49	1.46	1.55
Mn-D	mg/L	0.00745	0.0078	0.0113	0.0131	0.0137	0.00968	0.00863	0.00886	0.00951
Mn-T	mg/L	0.0088	0.0102	0.0149	0.0141	0.014	0.0118	0.00984	0.01	0.0111
Mo-D	mg/L	0.000198	0.000205	0.000185	0.000202	0.000185	0.000214	0.000181	0.000281	0.00047
Mo-T	mg/L	0.000178	0.000177	0.000175	0.000174	0.000178	0.000173	0.000179	0.000186	0.000177
Na-D	mg/L	7.45	6.91	9.70	11.6	13.3	12	12.5	12.4	12.3
Na-T	mg/L	6.56	8.3	12.1	12.8	13.2	12.2	11.7	11.8	12.9
Ni-D	mg/L	0.000091	0.000067	0.000096	0.000096	0.0001	0.000095	0.000058	0.000068	0.000094
Ni-T	mg/L	0.000091	0.000091	0.000164	0.000108	0.000108	0.000097	0.000067	0.000069	0.0001
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000085	<0.0000050
Pb-T	mg/L	0.000013	0.0000055	<0.0000050	0.0000071	<0.0000050	0.0000061	0.0000052	<0.0000050	<0.0000050
pH-F	pH Units	7.21	8.15	7.31	7.84	7.06		7.08	7.33	8.07
S-D	mg/L	6.4	5.6	7.3	8.7	9.8	8.1	8.6	9.4	7.9
S-T	mg/L	5	5.9	7.8	8.9	8.7	8.5	8.6	8.4	8.3
Se-D	mg/L	0.000057	0.000054	0.000053	0.000052	0.000053	0.000048	0.000073	0.000051	0.000053
Se-T	mg/L	0.000057	0.000066	0.000054	0.000053	0.00005	0.000055	0.00005	0.000042	0.000046
Si-D	mg/L	2.41	2.2	2.26	2.2	2.57	2.3	2.46	2.57	2.26
Si-T	mg/L	2.42	2.21	2.30	2.2	2.37	2.37	2.4	2.37	2.27
SO4-D	mg/L	16	19	25	28	29	26	26	27	27
Sr-D	mg/L	0.0452	0.0438	0.0616	0.0668	0.0708	0.0594	0.0601	0.0605	0.062
Sr-T	mg/L	0.0405	0.0454	0.0643	0.0669	0.0686	0.0585	0.0591	0.0614	0.0646
Temp-F	C	5	4.6	4.1	4	3.9		5.1	5.2	4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00074	0.00099	0.00097	0.00086	<0.00050	<0.00050	<0.00050	<0.00050	0.00058
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00099	0.00109	0.00068	0.00075	0.00073	0.00082	0.00063	0.00105	0.00107
Zn-T	mg/L	0.00027	0.00014	<0.00010	0.00019	0.00011	0.00119	0.00018	0.00011	0.00011

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam										
Station Name		Quinsam River D/S Site B								
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2026/01/26	2026/01/29	2026/02/02	2026/02/05	2026/02/09	2026/03/02	2026/03/04	2026/03/09	2026/03/11
Acidity83	mg/L		1.3	1.5		<1.0		2	1.4	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Al-D	mg/L	0.0215	0.0283	0.0272	0.0281	0.023	0.0241	0.0227	0.0221	0.023
Al-T	mg/L	0.0341	0.0204	0.0453	0.0381	0.0377	0.0354	0.0339	0.0259	0.0275
Alk-T	mg/L	41	40	25	27	30	32	33	35	35
As-D	mg/L	0.000365	0.000387	0.0002	0.000192	0.000196	0.000397	0.000405	0.00042	0.000422
As-T	mg/L	0.000422	0.000319	0.000209	0.00019	0.000247	0.000605	0.000478	0.000431	0.000547
B-D	mg/L	0.059	0.052	0.023	0.028	0.026	0.04	0.043	0.045	0.047
B-T	mg/L	0.055	0.048	0.025	0.027	0.033	0.043	0.044	0.042	0.048
Ba-D	mg/L	0.0026	0.0025	0.00159	0.00166	0.00165	0.00261	0.00273	0.00288	0.00302
Ba-T	mg/L	0.00272	0.00239	0.00175	0.00158	0.00174	0.0027	0.00293	0.0028	0.00307
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	13.3	12.8	9.48	9.65	9.42	11	11.8	12.2	12.9
Ca-T	mg/L	13	12.1	9.52	8.62	9.63	11.3	12.3	11.7	13.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000679	0.0000738	0.0000332	0.0000418	0.0000461	0.0000406	0.0000418	0.0000409	0.0000419
Co-T	mg/L	0.0000772	0.0000662	0.0000433	0.0000483	0.0000558	0.0000424	0.0000501	0.000049	0.0000483
Cond-F	uS/cm	156.5	135.7	84.6	93.6	94.5	140	78.5	137.6	133.9
Cr-D	mg/L	<0.00010	0.00012	0.00013	0.00011	<0.00010	0.00077	<0.00010	0.00057	<0.00010
Cr-T	mg/L	<0.00010	0.0001	0.00013	0.0001	<0.00010	0.00082	<0.00010	0.00057	<0.00010
Cu-D	mg/L	0.000566	0.000652	0.000639	0.000608	0.000601	0.000704	0.00053	0.000583	0.000547
Cu-T	mg/L	0.000678	0.000554	0.000693	0.000622	0.000648	0.000742	0.000618	0.00068	0.000603
DOC	mg/L	2.2	2.8	3.1	2.7	3.1	2.6	<0.50	2.5	2.4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.041	0.111	0.0281	0.0256	0.025	0.0309	0.0266	0.0294	0.0256
Fe-T	mg/L	0.142	0.0354	0.0657	0.0581	0.0716	0.0983	0.0927	0.0743	0.0754
Hard-D	mg/L	40.3	38.3	28.4	29	27.9	33.4	35.7	37.3	39.6
Hard-T	mg/L	39.2	36.3	28.3	25.8	29.1	34.2	37	35.2	40.2
K-D	mg/L	0.315	0.307	0.147	0.161	0.166	0.231	0.223	0.24	0.257
K-T	mg/L	0.323	0.276	0.154	0.148	0.174	0.225	0.248	<0.25	0.252
Li-D	mg/L	0.00092	0.00079	<0.00050	<0.00050	<0.00050	0.00073	0.00093	0.00086	0.00078
Li-T	mg/L	0.00093	0.00065	<0.00050	<0.00050	<0.00050	0.00069	0.00081	0.00078	0.00075
Mg-D	mg/L	1.69	1.52	1.15	1.2	1.07	1.43	1.5	1.65	1.81
Mg-T	mg/L	1.65	1.44	1.11	1.05	1.23	1.47	1.56	1.43	1.76
Mn-D	mg/L	0.0232	0.0239	0.007	0.00903	0.0102	0.0112	0.012	0.0117	0.0121
Mn-T	mg/L	0.0254	0.0206	0.00883	0.0095	0.0112	0.0121	0.0147	0.012	0.0133
Mo-D	mg/L	0.000253	0.000164	0.000429	0.000357	0.000518	0.000279	0.000328	0.000264	0.00026
Mo-T	mg/L	0.000164	0.000205	0.000159	0.000182	0.00017	0.000181	0.000166	0.000183	0.000184
Na-D	mg/L	15.9	14	5.89	6.35	6.52	9.53	10.5	10.2	12.1
Na-T	mg/L	15.5	13.9	5.83	5.78	7.13	9.96	10.8	9.25	11.8
Ni-D	mg/L	0.000114	0.000137	0.00011	0.000105	0.000113	0.000362	0.000096	0.000275	0.000104
Ni-T	mg/L	0.000142	0.000132	0.000116	0.000096	0.00012	0.000394	0.00011	0.00033	0.000122
Pb-D	mg/L	<0.0000050	<0.0000050	0.0000063	0.0000069	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	0.0000064	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000020	<0.0000050
pH-F	pH Units	7.95	6.29	7.51	7.81	6.6	7.44	7.11	7.16	7.07
S-D	mg/L	10.6	9.9	4.5	4.7	5.1	7.9	7.9	9.5	9.8
S-T	mg/L	10.3	9.5	4.8	4.3	5.1	8.1	7.6	8.4	9.7
Se-D	mg/L	0.000056	0.000048	0.000047	0.000074	0.000049	0.000053	0.000042	0.000048	<0.000040
Se-T	mg/L	0.000065	0.000046	0.00006	0.00005	<0.000040	0.000044	0.000047	0.000117	0.000048
Si-D	mg/L	2.34	2.34	2.27	2.53	2.09	2.5	2.54	2.7	2.66
Si-T	mg/L	2.22	2.21	2.4	2.35	2.46	2.64	2.42	2.42	2.65
SO4-D	mg/L	34	29	12	12	15	25	24	28	29
Sr-D	mg/L	0.0759	0.063	0.0332	0.0358	0.0373	0.0574	0.0627	0.0691	0.0698
Sr-T	mg/L	0.0716	0.0658	0.0355	0.0331	0.0401	0.0554	0.0657	0.0626	0.0679
Temp-F	C	4.5	9.1	6	6.2	5.6	4.7	6	5.1	5.9
Ti-D	mg/L	<0.00050	0.0006	0.00051	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00055
Ti-T	mg/L	0.00086	<0.00050	0.00106	0.00073	0.00092	0.00053	0.00067	<0.0020	0.00051
TI-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TI-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.0009	<0.00010	0.00307	0.0021	0.00369	0.00107	0.00061	0.00089	0.0017
Zn-T	mg/L	0.00014	0.00064	0.00021	0.00019	<0.00010	<0.00010	0.00019	<0.0010	<0.00010

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam						
Station Name		Quinsam River D/S Site B				
Stn.Code		QRDSB	QRDSB	QRDSB	QRDSB	QRDSB
Date		2026/03/16	2026/03/18	2026/03/23	2026/03/25	2026/03/30
Acidity83	mg/L	<1.0	<1.0	<1.0	1.5	1.8
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050
Al-D	mg/L	0.0215	0.0234	0.0249	0.0237	0.02
Al-T	mg/L	0.0335	0.0344	0.0378	0.0336	0.0254
Alk-T	mg/L	48	29	35	32	37
As-D	mg/L	0.000461	0.000184	0.000361	0.000233	0.000343
As-T	mg/L	0.000597	0.000203	0.000431	0.000279	0.000435
B-D	mg/L	0.068	0.027	0.053	0.037	0.04
B-T	mg/L	0.068	0.024	0.048	0.035	0.044
Ba-D	mg/L	0.00344	0.00169	0.00329	0.00202	0.00249
Ba-T	mg/L	0.00352	0.00174	0.00349	0.00206	0.00255
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0000050	<0.000010	<0.000010	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	17.5	9.19	14.2	10.5	12.2
Ca-T	mg/L	15.8	9.14	14.2	10.5	12.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000894	0.00005	0.000062	0.000064	0.0000891
Co-T	mg/L	0.000103	0.0000588	0.000071	0.000068	0.0000847
Cond-F	uS/cm	191.2	152.8	95.4	116.9	153.7
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cr-T	mg/L	<0.00010	0.00011	0.00011	0.0001	0.00011
Cu-D	mg/L	0.000502	0.000571	0.000491	0.00059	0.000583
Cu-T	mg/L	0.000597	0.000653	0.00057	0.00065	0.000662
DOC	mg/L	2.4	2.6	2.6	2.3	2.3
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0457	0.0219	0.0419	0.0264	0.0298
Fe-T	mg/L	0.139	0.057	0.101	0.0682	0.0815
Hard-D	mg/L	52.5	27.5	43.4	32	36.4
Hard-T	mg/L	47.5	27.1	43.3	31.7	36.2
K-D	mg/L	0.384	0.144	0.268	0.191	0.25
K-T	mg/L	0.341	0.153	0.27	<0.25	0.245
Li-D	mg/L	0.00102	0.00059	0.00115	0.00052	0.00053
Li-T	mg/L	0.00105	<0.00050	0.00076	<0.00050	0.00067
Mg-D	mg/L	2.16	1.12	1.92	1.39	1.41
Mg-T	mg/L	1.96	1.04	1.91	1.33	1.41
Mn-D	mg/L	0.0293	0.0102	0.0177	0.0141	0.0214
Mn-T	mg/L	0.0301	0.0109	0.0193	0.015	0.0219
Mo-D	mg/L	0.000196	0.000291	0.000255	0.000318	0.000206
Mo-T	mg/L	0.000167	0.000196	0.000152	0.000165	0.000177
Na-D	mg/L	20.1	6.08	11.5	8.51	11.7
Na-T	mg/L	17.6	6.26	11.9	8.48	11.7
Ni-D	mg/L	0.00016	0.000104	0.000148	0.000125	0.000155
Ni-T	mg/L	0.000198	0.000104	0.00017	0.00015	0.00016
Pb-D	mg/L	<0.0000050	<0.0000050	0.000005	0.000008	<0.0000050
Pb-T	mg/L	<0.0000050	0.0000071	<0.000020	<0.000020	0.000005
pH-F	pH Units	7.71	7.12	7.5	7.2	7.54
S-D	mg/L	14	4.5	10.6	7.2	9.2
S-T	mg/L	13.5	4.9	11.2	6.2	9.4
Se-D	mg/L	0.000047	0.000057	0.000046	0.00005	0.000048
Se-T	mg/L	0.000041	0.000162	<0.000040	0.000048	0.000048
Si-D	mg/L	2.83	2.26	2.66	2.31	2.26
Si-T	mg/L	2.53	2.26	2.8	2.34	2.36
SO4-D	mg/L	41	15	35	21	30
Sr-D	mg/L	0.102	0.0384	0.0822	0.0525	0.0689
Sr-T	mg/L	0.0991	0.0375	0.0812	0.0527	0.0689
Temp-F	C	5.6	6.2	6.7	6.3	4.4
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	0.00102	0.00056	<0.0020	<0.0020	<0.00050
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00029	0.00116	0.001	0.00143	0.00063
Zn-T	mg/L	0.00014	0.00023	<0.0010	<0.0010	0.00017

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam						
Station Name		7 South Quinsam River				
Stn.Code		75QR	75QR	75QR	75QR	75QR
Date		2025/05/05	2025/05/12	2025/05/20	2025/05/26	2025/06/02
Acidity#3	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000020	<0.0000050	<0.000010	<0.0000050	<0.0000050
Al-D	mg/L	0.00910	0.00859	0.00971	0.00905	0.00840
Al-T	mg/L	0.0222	0.0177	0.0190	0.0165	0.0166
Alk-T	mg/L	42	44	41	38	37
As-D	mg/L	0.00105	0.00108	0.00101	0.00103	0.00107
As-T	mg/L	0.00119	0.00115	0.00106	0.00106	0.00113
B-D	mg/L	0.058	0.063	0.057	0.048	0.052
B-T	mg/L	0.079	0.06	0.056	0.044	0.046
Ba-D	mg/L	0.00413	0.00416	0.00429	0.00387	0.00379
Ba-T	mg/L	0.0042	0.00421	0.00415	0.00380	0.00389
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0000050	<0.000010	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	13.2	12.4	13.1	11.7	11.5
Ca-T	mg/L	13.1	12.6	12.5	11.2	10.9
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000260	0.0000210	0.0000242	0.0000200	0.0000184
Co-T	mg/L	<0.00020	0.0000270	0.000030	0.0000286	0.0000250
Cond-F	uS/cm	187.9	512.2	162.5	129.4	117.5
Cr-D	mg/L	<0.00010	<0.00010	<0.00010	0.00012	0.00011
Cr-T	mg/L	<0.0010	0.00012	<0.00010	<0.00010	<0.00010
Cu-D	mg/L	0.000465	0.000454	0.000469	0.000475	0.000443
Cu-T	mg/L	0.00064	0.000542	0.00060	0.000485	0.000495
DOC	mg/L	2.1	1.8	2.3	2.3	2.0
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0960	0.0793	0.0974	0.0724	0.0738
Fe-T	mg/L	0.191	0.136	0.142	0.114	0.104
Hard-D	mg/L	40.2	37.9	39.4	35.3	34.4
Hard-T	mg/L	39.5	38.4	37.8	33.5	33.2
K-D	mg/L	0.318	0.297	0.271	0.220	0.227
K-T	mg/L	0.300	0.297	0.25	0.219	0.212
Li-D	mg/L	0.00139	0.00133	0.00129	0.00121	0.00106
Li-T	mg/L	<0.0020	0.00135	0.00132	0.00124	0.00112
Mg-D	mg/L	1.75	1.69	1.62	1.48	1.35
Mg-T	mg/L	1.62	1.67	1.60	1.33	1.45
Mn-D	mg/L	0.0110	0.00946	0.0101	0.00745	0.00709
Mn-T	mg/L	0.0131	0.0111	0.0105	0.00858	0.00795
Mo-D	mg/L	0.000181	0.000190	0.000193	0.000229	0.000185
Mo-T	mg/L	<0.0010	0.000155	0.000165	0.000162	0.000163
Na-D	mg/L	15.4	14.5	13.3	10.0	9.93
Na-T	mg/L	15.5	14.9	13.1	9.62	9.99
Ni-D	mg/L	0.000077	0.000071	0.000091	0.000039	0.000066
Ni-T	mg/L	<0.0010	0.000079	<0.00010	0.000057	0.000061
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.00020	<0.0000050	<0.000020	0.0000061	0.0000060
pH-F	pH Units	7.8	7.84	7.84	7.48	7.87
S-D	mg/L	10.1	9.1	9.3	7.0	6.1
S-T	mg/L	10.0	9.6	9.1	6.1	6.5
Se-D	mg/L	0.000049	0.000041	0.000043	0.000041	<0.000040
Se-T	mg/L	<0.00010	<0.000040	0.000050	0.000045	0.000045
Si-D	mg/L	2.29	2.07	2.10	1.94	1.85
Si-T	mg/L	2.16	2.01	2.11	1.87	1.84
SO4-D	mg/L	30	28	28	19	18
Sr-D	mg/L	0.0783	0.0750	0.0755	0.0613	0.0607
Sr-T	mg/L	0.0759	0.0753	0.0735	0.0589	0.0593
Temp-F	C	14.4	12.8	13.2	13.8	14.8
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	0.00067	<0.0020	<0.00050	<0.00050
Ti-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Ti-T	mg/L	<0.0000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.2	<1.0	<1.0	2.0	<1.0
Zn-D	mg/L	0.00159	0.00043	0.00026	0.00100	0.00085
Zn-T	mg/L	<0.0050	0.00017	<0.0010	0.00023	0.00017

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		7 South Quinsam River					
Stn.Code		75QR	75QR	75QR	75QR	75QR	75QR
Date		2025/08/18	2025/09/08	2026/01/06	2026/02/02	2026/03/02	2026/03/30
Acidity83	mg/L	<1.0	1.9	1.1	1.6	<1.0	1.9
Ag-D	mg/L	<0.0000050	<0.000020	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.0000050	<0.000020	<0.0000050	<0.000010	<0.0000050	<0.0000050
Al-D	mg/L	0.0206	0.0095	0.025	0.0274	0.0265	0.0319
Al-T	mg/L	0.0296	0.0285	0.0422	0.0496	0.0425	0.02
Alk-T	mg/L	33	46	36	26	33	37
As-D	mg/L	0.000529	0.00058	0.0004	0.00022	0.000597	0.000573
As-T	mg/L	0.000568	0.00069	0.000472	0.000254	0.000625	0.000515
B-D	mg/L	0.042	0.080	0.046	0.02	0.042	0.043
B-T	mg/L	0.04	0.077	0.041	0.019	0.044	0.048
Ba-D	mg/L	0.00297	0.0033	0.00259	0.00166	0.00288	0.00292
Ba-T	mg/L	0.00298	0.0035	0.00278	0.0018	0.00294	0.00281
Be-D	mg/L	<0.000010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.000010	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0000050	<0.0010	<0.0000050	<0.000010	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	11.8	14.6	12.1	8.24	10.3	12.3
Ca-T	mg/L	11.3	14.3	11.5	7.75	11.2	12
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Co-D	mg/L	0.0000321	<0.00020	0.0000281	0.0000223	0.0000352	0.0000722
Co-T	mg/L	0.0000366	<0.00020	0.000041	0.000032	0.0000462	0.0000609
Cond-F	uS/cm	114	119.8	132.5	71.3	135.6	142.6
Cr-D	mg/L	0.00015	<0.0010	<0.00010	0.0001	0.00023	0.00012
Cr-T	mg/L	0.00015	<0.0010	0.00012	0.00011	0.00077	<0.00010
Cu-D	mg/L	0.000497	0.00041	0.000482	0.000589	0.000553	0.000665
Cu-T	mg/L	0.000615	0.00054	0.000625	0.00062	0.000731	0.000591
DOC	mg/L	2.8	2.1	2.6	3.2	2.7	2.4
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0679	0.0538	0.0478	0.0337	0.055	0.114
Fe-T	mg/L	0.103	0.109	0.111	0.0696	0.113	0.0502
Hard-D	mg/L	36	44.6	37.1	25	31.9	36.8
Hard-T	mg/L	34.8	43.8	35.3	23.4	34.3	35.8
K-D	mg/L	0.223	0.384	0.234	0.129	0.23	0.256
K-T	mg/L	0.214	0.370	0.229	<0.25	0.228	0.254
Li-D	mg/L	0.00076	<0.0020	0.00069	<0.00050	0.00083	0.0006
Li-T	mg/L	0.00079	<0.0020	0.00064	<0.00050	0.00081	0.00083
Mg-D	mg/L	1.58	1.99	1.7	1.08	1.49	1.46
Mg-T	mg/L	1.6	1.97	1.57	0.97	1.55	1.44
Mn-D	mg/L	0.0103	0.0076	0.00713	0.00263	0.01	0.0169
Mn-T	mg/L	0.0114	0.0096	0.0103	0.00352	0.0125	0.0155
Mo-D	mg/L	0.000168	<0.0010	0.000178	0.000214	0.000257	0.00017
Mo-T	mg/L	0.000166	<0.0010	0.000157	0.000147	0.000176	0.00018
Na-D	mg/L	9.23	22.0	12	4.73	9.64	11.9
Na-T	mg/L	8.72	22.4	11.1	4.33	9.88	11.9
Ni-D	mg/L	0.000073	<0.0010	0.000047	0.000077	0.00016	0.000146
Ni-T	mg/L	0.000088	<0.0010	0.000084	<0.00010	0.000369	0.000139
Pb-D	mg/L	<0.0000050	<0.00020	<0.0000050	<0.0000050	0.0000056	0.000006
Pb-T	mg/L	0.0000158	<0.00020	0.0000159	<0.000020	0.0000053	<0.0000050
pH-F	pH Units	7.01	7.04	7.44	7.24	7.25	7.95
S-D	mg/L	7.2	15.0	8.3	3.4	6.5	9
S-T	mg/L	7	15.8	8.1	3.3	7.6	9
Se-D	mg/L	0.000044	<0.00010	0.000068	0.000042	0.000047	0.00006
Se-T	mg/L	0.000049	<0.00010	0.00005	<0.000040	0.000046	0.000048
Si-D	mg/L	2.68	2.03	2.62	2.37	2.75	2.46
Si-T	mg/L	2.59	1.97	2.53	2.4	2.82	2.43
SO4-D	mg/L	22	45	26	10	23	30
Sr-D	mg/L	0.0588	0.0943	0.0587	0.0289	0.0555	0.0697
Sr-T	mg/L	0.0612	0.0950	0.0581	0.0289	0.0556	0.0673
Temp-F	C	18.1	19.7	4.8	5.7	3.3	6.3
Ti-D	mg/L	<0.00050	<0.0050	<0.00050	<0.00050	<0.00050	0.00067
Ti-T	mg/L	0.00073	<0.0050	0.00126	<0.0020	0.00103	<0.00050
Tl-D	mg/L	<0.0000020	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.0000020	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.6		<1.0	<1.0	<1.0	<1.0
Zn-D	mg/L	0.00064	<0.0050	0.00091	0.00031	0.00031	0.00021
Zn-T	mg/L	0.00037	<0.0050	0.00093	<0.0010	0.00033	0.00043

Appendix 1 - Tables

Table 57 Additional Monitoring Quinsam River 2025-2026 1 Page(s)

Additional Monitoring Quinsam							
Station Name		Iron River & Quinsam River					
Stn.Code		IRQR	IRQR	IRQR	IRQR	IRQR	IRQR
Date		2025/05/05	2025/05/12	2025/05/20	2025/05/26	2025/06/02	2026/03/30
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	2
Ag-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ag-T	mg/L	<0.000020	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Al-D	mg/L	0.0205	0.0271	0.0282	0.0198	0.0140	0.0237
Al-T	mg/L	0.0285	0.0378	0.0382	0.0278	0.0195	0.0319
Alk-T	mg/L	36	34	34	33	36	37
As-D	mg/L	0.000945	0.000908	0.000915	0.00107	0.00109	0.00063
As-T	mg/L	0.00101	0.00101	0.000944	0.00104	0.00116	0.000656
B-D	mg/L	0.035	0.040	0.035	0.034	0.043	0.037
B-T	mg/L	0.056	0.038	0.037	0.030	0.036	0.04
Ba-D	mg/L	0.00370	0.00367	0.00381	0.00400	0.00379	0.00315
Ba-T	mg/L	0.0038	0.00373	0.00374	0.00397	0.00391	0.00318
Be-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Be-T	mg/L	<0.00010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Bi-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Bi-T	mg/L	<0.0010	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ca-D	mg/L	10.7	10.2	10.9	10.8	11.2	11.9
Ca-T	mg/L	10.4	10.4	10.4	10.8	11.0	11.6
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cd-D	mg/L	<0.0000050	0.0000050	0.0000068	<0.0000050	<0.0000050	<0.0000050
Cd-T	mg/L	<0.000010	0.0000060	0.0000059	<0.0000050	<0.0000050	<0.0000050
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.3
Co-D	mg/L	0.0000290	0.0000240	0.0000257	0.0000170	0.0000182	0.0000548
Co-T	mg/L	<0.00020	0.0000330	0.000034	0.0000270	0.0000270	0.0000527
Cond-F	uS/cm	121.8	132.2	116.2	104.1	104.6	133
Cr-D	mg/L	<0.00010	0.00014	0.00013	0.00011	<0.00010	0.00011
Cr-T	mg/L	<0.0010	0.00018	0.00017	0.00011	0.00010	0.00011
Cu-D	mg/L	0.000577	0.000603	0.000599	0.000601	0.000505	0.000577
Cu-T	mg/L	0.00066	0.000651	0.00067	0.000589	0.000546	0.00065
DOC	mg/L	2.5	2.6	3.1	2.7	2.3	2.6
F-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fe-D	mg/L	0.0621	0.0499	0.0643	0.0559	0.0581	0.0458
Fe-T	mg/L	0.106	0.0909	0.0970	0.0822	0.0861	0.0911
Hard-D	mg/L	32.0	30.3	32.0	32.1	32.8	35.4
Hard-T	mg/L	30.7	30.7	30.9	31.7	32.7	34.3
K-D	mg/L	0.230	0.207	0.192	0.189	0.206	0.24
K-T	mg/L	0.215	0.201	<0.25	0.179	0.194	0.222
Li-D	mg/L	0.00079	0.00073	0.00071	0.00083	0.00079	0.00056
Li-T	mg/L	<0.0020	0.00074	0.00077	0.00072	0.00081	0.00056
Mg-D	mg/L	1.29	1.17	1.16	1.25	1.20	1.35
Mg-T	mg/L	1.14	1.17	1.17	1.16	1.26	1.31
Mn-D	mg/L	0.00646	0.00529	0.00542	0.00503	0.00525	0.0129
Mn-T	mg/L	0.0075	0.00657	0.00617	0.00574	0.00604	0.0133
Mo-D	mg/L	0.000147	0.000151	0.000182	0.000194	0.000195	0.000167
Mo-T	mg/L	<0.0010	0.000139	0.000150	0.000157	0.000176	0.000174
Na-D	mg/L	9.16	7.97	7.45	6.71	7.64	9.97
Na-T	mg/L	9.00	8.09	7.49	6.57	7.65	9.74
Ni-D	mg/L	0.000089	0.000108	0.000111	0.000099	0.000070	0.000135
Ni-T	mg/L	<0.0010	0.000132	0.00012	0.000112	0.000068	0.000141
Pb-D	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Pb-T	mg/L	<0.00020	<0.0000050	<0.000020	<0.0000050	0.0000060	<0.0000050
pH-F	pH Units	7.68	8.27	7.84	7.39	8.13	7.82
S-D	mg/L	6.7	4.6	5.1	4.0	4.5	7.5
S-T	mg/L	5.9	4.9	5.1	4.4	4.4	7
Se-D	mg/L	0.000088	0.000063	0.000088	0.000074	0.000072	0.000069
Se-T	mg/L	<0.00010	0.000085	0.000095	0.000084	0.000064	0.000053
Si-D	mg/L	2.24	2.17	2.18	2.13	2.02	2.53
Si-T	mg/L	2.10	2.1	2.19	2.11	2.05	2.59
SO4-D	mg/L	18	16	16	12	14	25
Sr-D	mg/L	0.0565	0.0516	0.0526	0.0504	0.0535	0.0647
Sr-T	mg/L	0.0526	0.0523	0.0523	0.0488	0.0533	0.0614
Temp-F	C	11.9	13.1	11.9	11.2	14.6	6.9
Ti-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ti-T	mg/L	<0.0050	0.00053	<0.0020	0.00066	<0.00050	0.00064
Tl-D	mg/L	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
Tl-T	mg/L	<0.000010	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020
TSS	mg/L	1.6	1.2	1.2	3.2	<1.0	<1.0
Zn-D	mg/L	0.00097	0.00072	0.00057	0.00091	0.00114	0.00078
Zn-T	mg/L	<0.0050	0.00019	<0.0010	0.00041	0.00017	0.00019

Appendix II Graphs

- Graph 1 Settling Pond #4 - Hardness as CaCO_3
- Graph 2 Settling Pond #4- Monthly Average Dissolved Sulphate
- Graph 3 Settling Pond #4 - pH Field
- Graph 4 Settling Pond #4- Dissolved Arsenic
- Graph 5 Settling Pond #4- Dissolved Iron
- Graph 6 Settling Pond #4- Total Iron
- Graph 7 Settling Pond #4- Total Manganese
- Graph 8 Settling Pond #4- Dissolved Copper
- Graph 9 Settling Pond #4- TSS & Settling Pond #4- Dissolved Lead
- Graph 10 Settling Pond #4- Oil & Grease & Settling Pond #4- Dissolved Zinc
- Graph 11 Settling Pond #1- Hardness as CaCO_3
- Graph 12 Settling Pond #1- Monthly Average Dissolved Sulphate
- Graph 13 Settling Pond #1- Field pH
- Graph 14 Settling Pond #1- Dissolved Iron
- Graph 15 Settling Pond #1- Oil and Grease and Total Manganese
- Graph 16 Settling Pond #1- Dissolved Aluminium & Settling Pond #1- TSS
- Graph 17 Settling Pond #1- Dissolved Lead & Settling Pond #1- Dissolved Zinc
- Graph 18 Dissolved Sulphate vs. Flow Long Lake Entry (LLE)
- Graph 19 Dissolved Iron vs. Flow Long Lake Entry (LLE)
- Graph 20 Total Iron vs. Flow Long Lake Entry (LLE)
- Graph 21 Dissolved Manganese vs. Flow Long Lake Entry (LLE)
- Graph 22 Dissolved Sulphate Seeps Into Long Lake
- Graph 23 Total Arsenic Seeps Into Long Lake
- Graph 24 Total Manganese Seeps Into Long Lake
- Graph 25 Dissolved Iron Seeps Into Long Lake & Total Iron Seeps into Long Lake
- Graph 26 No Name Lake 5 in 30- Field pH & No Name Lake 5 in 30 Average - pH
- Graph 27 No Name Lake 5 in 30- Lake Depth Profiling Conductivity vs. pH & Temperature vs. Conductivity - Spring
- Graph 28 No Name Lake 5 in 30 Average- Dissolved Sulphate and Dissolved Copper
- Graph 29 Long Lake 5 in 30 Average - Hardness as CaCO_3 & Long Lake 5 in 30 Average - Dissolved Sulphate
- Graph 30 Long Lake 5 in 30 Average- pH
- Graph 31 5 in 30 Average Dissolved Manganese & 5 in 30 Dissolved Manganese vs. Dissolved Oxygen Long Lake 1 metre from Bottom
- Graph 32 Long Lake 5 in 30 Average - Dissolved Manganese & Long Lake 5 in 30- Dissolved Manganese
- Graph 33 Long Lake 5 in 30- Lake Depth Profiling pH and Conductivity - Spring, Summer & Fall
- Graph 34 Long Lake 5 in 30- Conductivity Field
- Graph 35 Middle Quinsam Lake 5 in 30 Average- Hardness as CaCO_3 & Middle Quinsam Lake 5 in 30 Average - Dissolved Sulphate
- Graph 36 Middle Quinsam Lake 5 in 30 Average- pH
- Graph 37 Middle Quinsam Lake 5 in 30- Conductivity - Spring, Summer & Fall
- Graph 38 Middle Quinsam Lake 5 in 30- Temperature- Spring, Summer & Fall
- Graph 39 Middle Quinsam Lake 5 in 30- Dissolved Manganese & Middle Quinsam Lake 5 in 30 Average- Dissolved Manganese
- Graph 40 Middle Quinsam Lake 5 in 30 Average- Total Arsenic
- Graph 41 Middle Quinsam Lake 5 in 30- Total Iron & Middle Quinsam Lake 5 in 30- Dissolved Iron
- Graph 42 Lower Quinsam lake 5 in 30 Average- Hardness as CaCO_3
- Graph 43 Lower Quinsam lake 5 in 30- pH
- Graph 44 Lower Quinsam Lake 5 in 30 Average - Dissolved Sulphate

Graph 45 Lower Quinsam Lake 5 in 30 - Dissolved Iron & Lower Quinsam Lake 5 in 30- Total Iron

Graph 46 Lower Quinsam Lake 5 in 30 Average - Dissolved Copper

Graph 47 5 in 30 Average Total Iron & 5 in 30 Total Iron vs Dissolved Oxygen Lower Quinsam Lake 1 metre from Bottom

Graph 48 5 in 30 Average Dissolved Iron & 5 in 30 Dissolved Iron vs. Dissolved Oxygen Lower Quinsam Lake 1 metre from Bottom

Graph 49 Lakes 5 in 30 Average Quinsam Lakes Total Iron versus Chronic WQG's

Graph 50 Lakes - Copper Results above Chronic WQG's

Graph 51 Dissolved Copper vs. Chronic WQG's

Graph 52 Copper Results above Acute WQG's

Graph 53 Rivers - Copper Results Above Chronic WQG

Graph 54 5 in 30 Average Dissolved Sulphate- No Name and Long Lake Outlet

Graph 55 5 in 30 Average Dissolved Sulphate- Quinsam River

Graph 56 5 in 30 Average Total Arsenic- Quinsam River

Graph 57 Quinsam River November 2025 to June 2026 Total Iron

Graph 58 5 in 30 Total Iron- Quinsam River and 5 in 30 Average Total Iron - Quinsam River

Graph 59 5 in 30 Averages Quinsam River, NNO and LLO Total Iron versus Chronic WQG's

Graph 60 5 in 30 Average Dissolved Iron - Quinsam River

Graph 61 5 in 30 Average Dissolved Manganese - Quinsam River & Dissolved Manganese- Quinsam River

Graph 62 Dissolved Aluminum vs. Flow- Iron River

Graph 63 5 in 30 Average Dissolved Aluminum vs. Flow- Iron River

Graph 64 5 in 30 Average Total Arsenic vs. Flow- Iron River

Graph 65 Flow & Precipitation Quinsam River at Argonaut Bridge (WA)

Graph 66 Daily Average Level vs. Staff Gauge- Middle Quinsam Lake Outlet (WB)

Graph 67 Discharge vs. Precipitation Long Lake Entry (LLE)

Graph 68 Discharge vs. Precipitation Long Lake Seep Middle (LLSM)

Graph 69 Flow vs. Precipitation Long Lake Outlet (LLO)

Graph 70 Flow vs. Staff Gauge Stream 1 (7S)

Graph 71 Flow vs. Precipitation Iron River (IR8)

Graph 72 Cumulative & Daily Discharge Rates Settling Pond #1 (SPD)

Graph 73 Cumulative & Daily Discharge Rates Settling Pond #4 (WD)

Graph 74 Daily Precipitation Accumulation 2-South Area

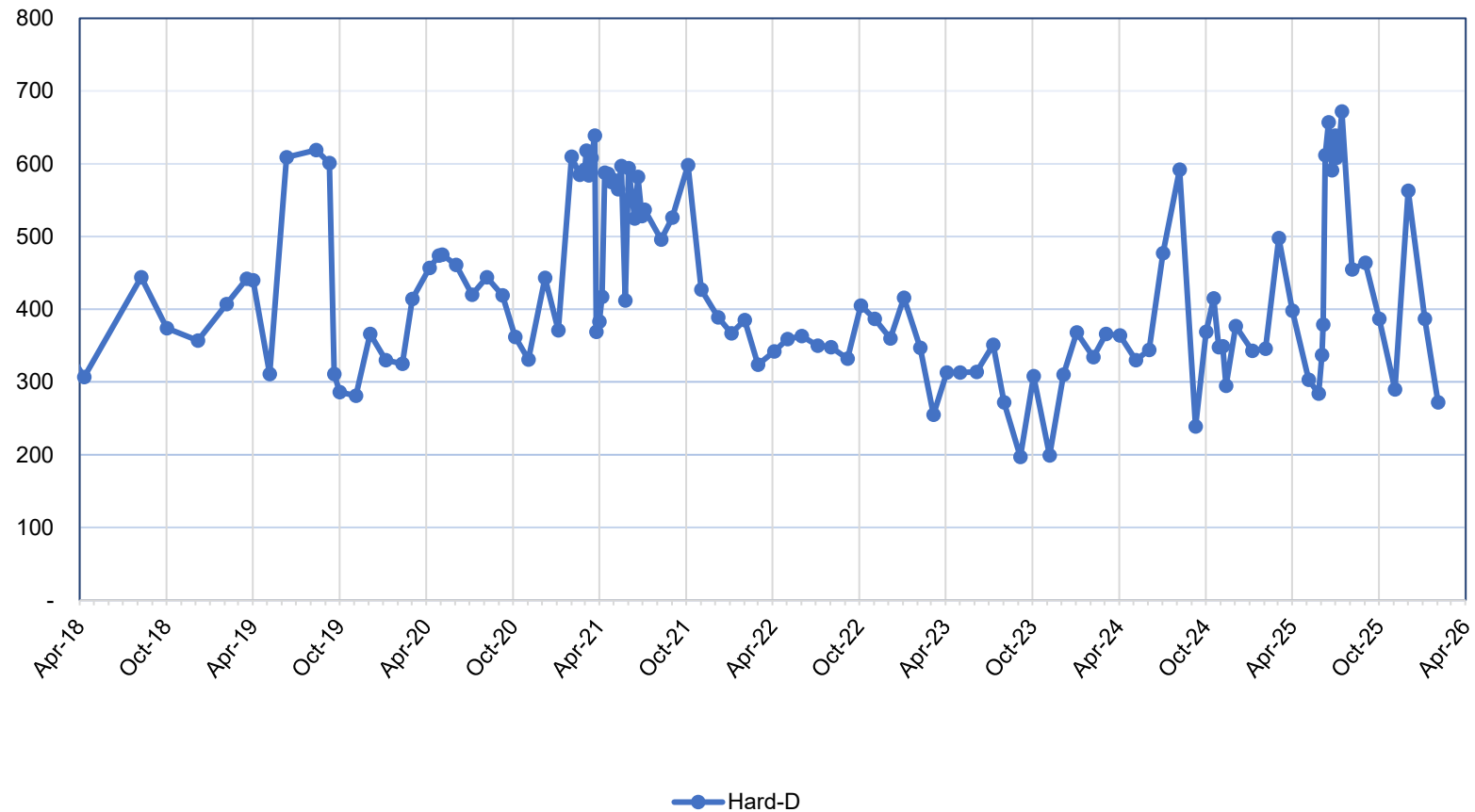
Graph 75 2-South Inflow Logger versus Staff Gauge (m)

Graph 76 Flow Rate vs. Precipitation Culvert Entering 3-South (2SC)

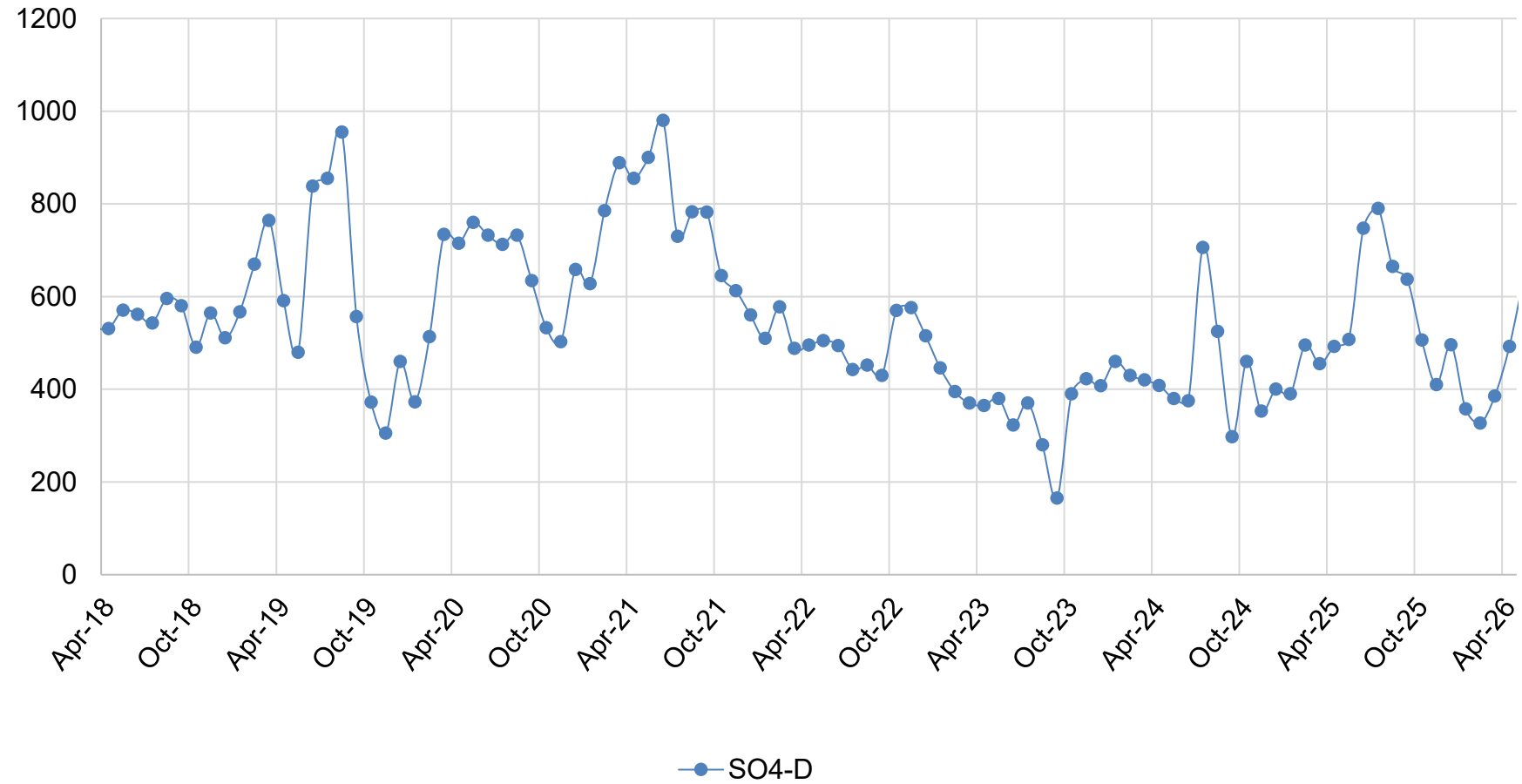
Graph 77 Level vs. Staff Gauge - No Name Lake Outlet

Graph 78 Flow versus Precipitation - No Name Outlet (NNO)

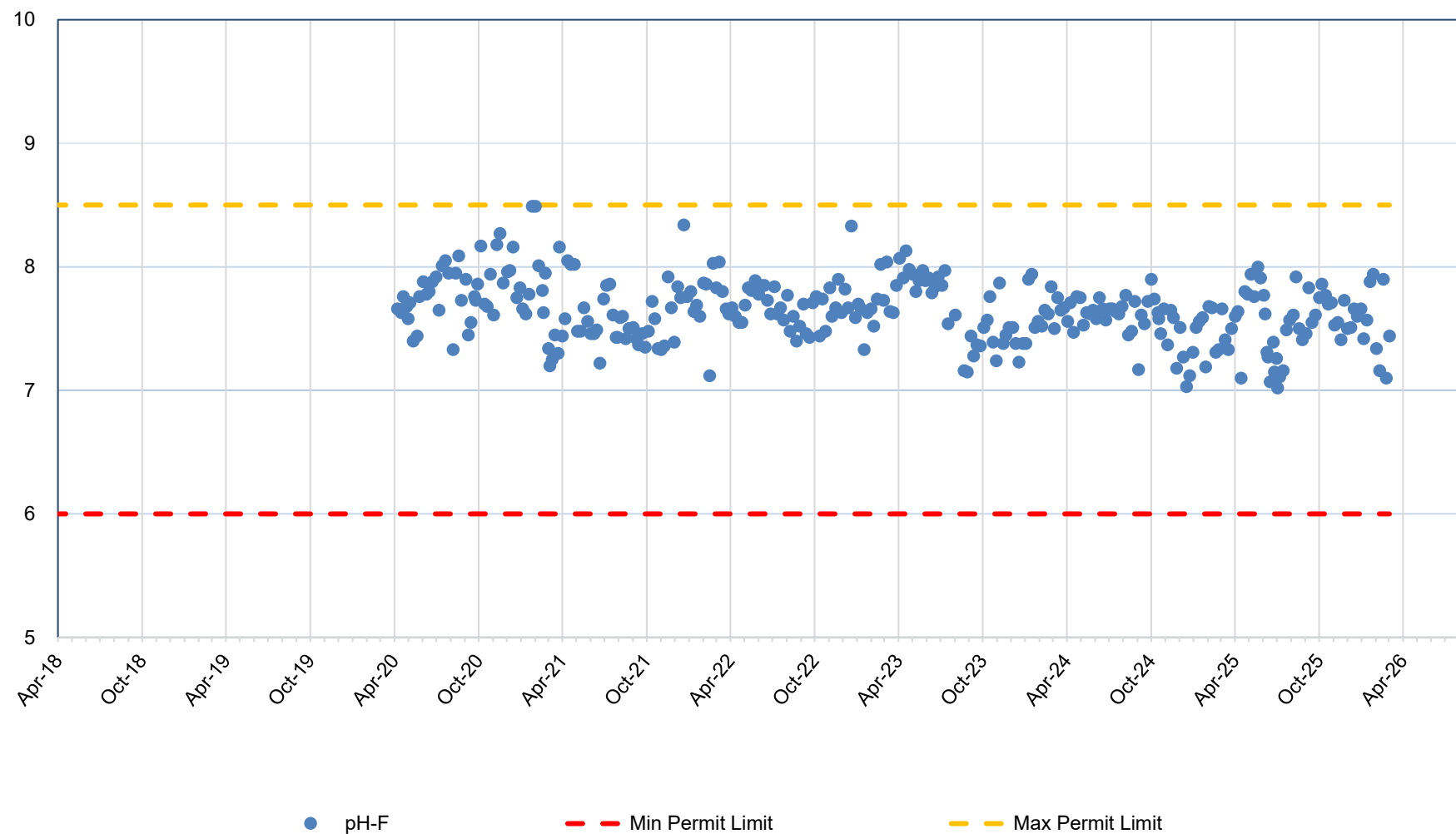
Settling Pond #4 - Hardness, Dissolved (CaCO_3) (mg/L)



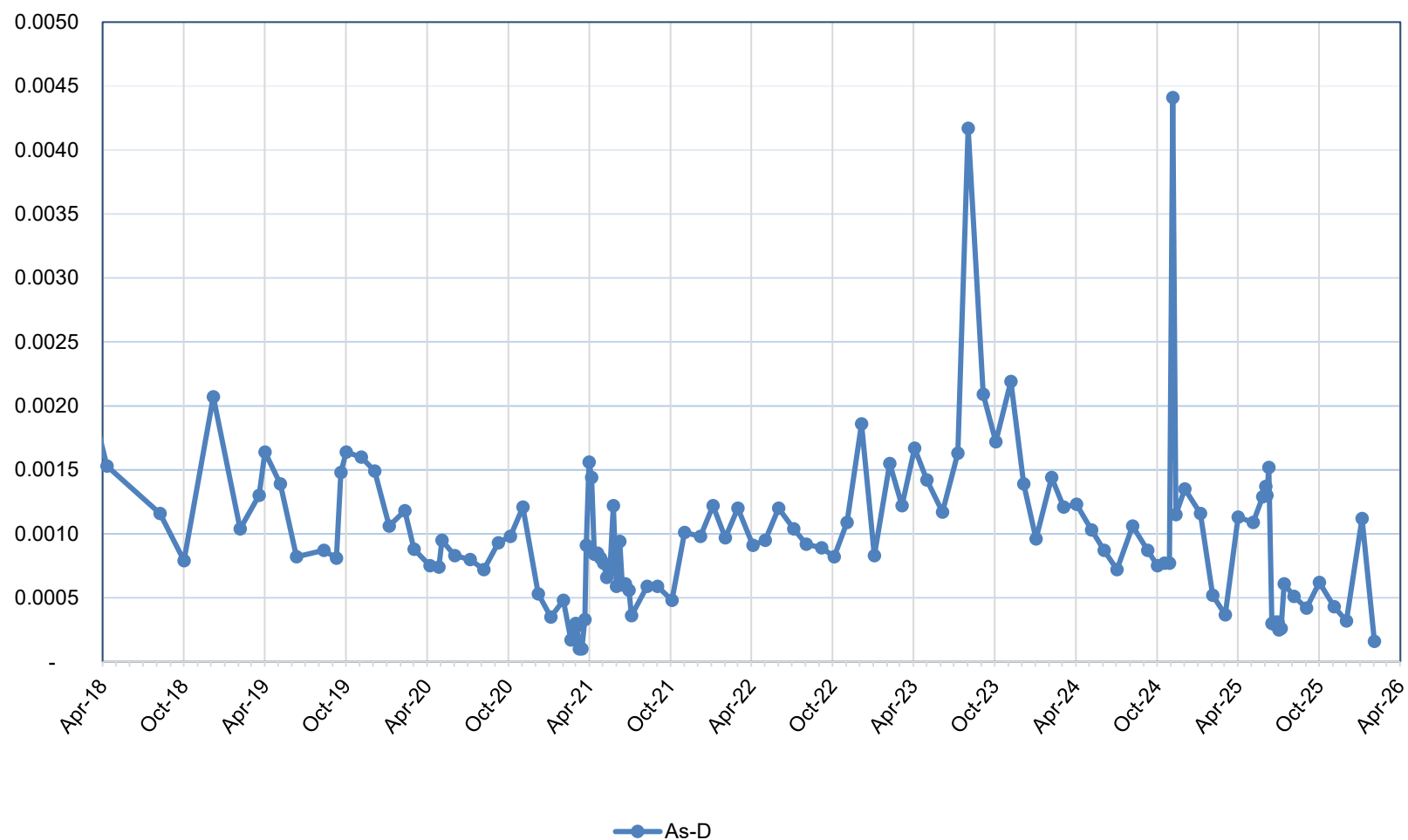
Monthly Average Dissolved Sulphate (mg/L)
Settling Pond #4 (WD)



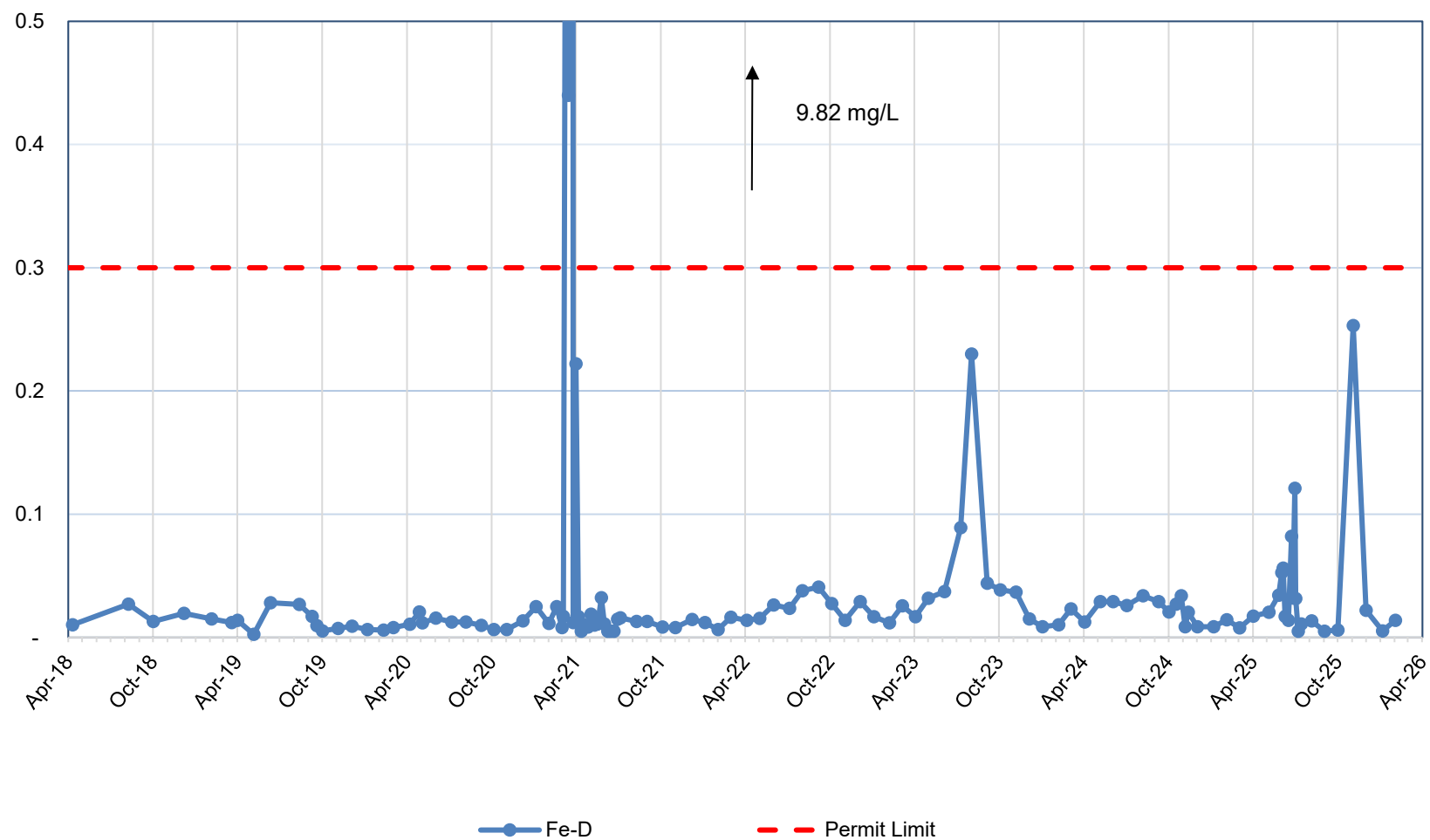
Settling Pond #4 - pH Field (pH Units)



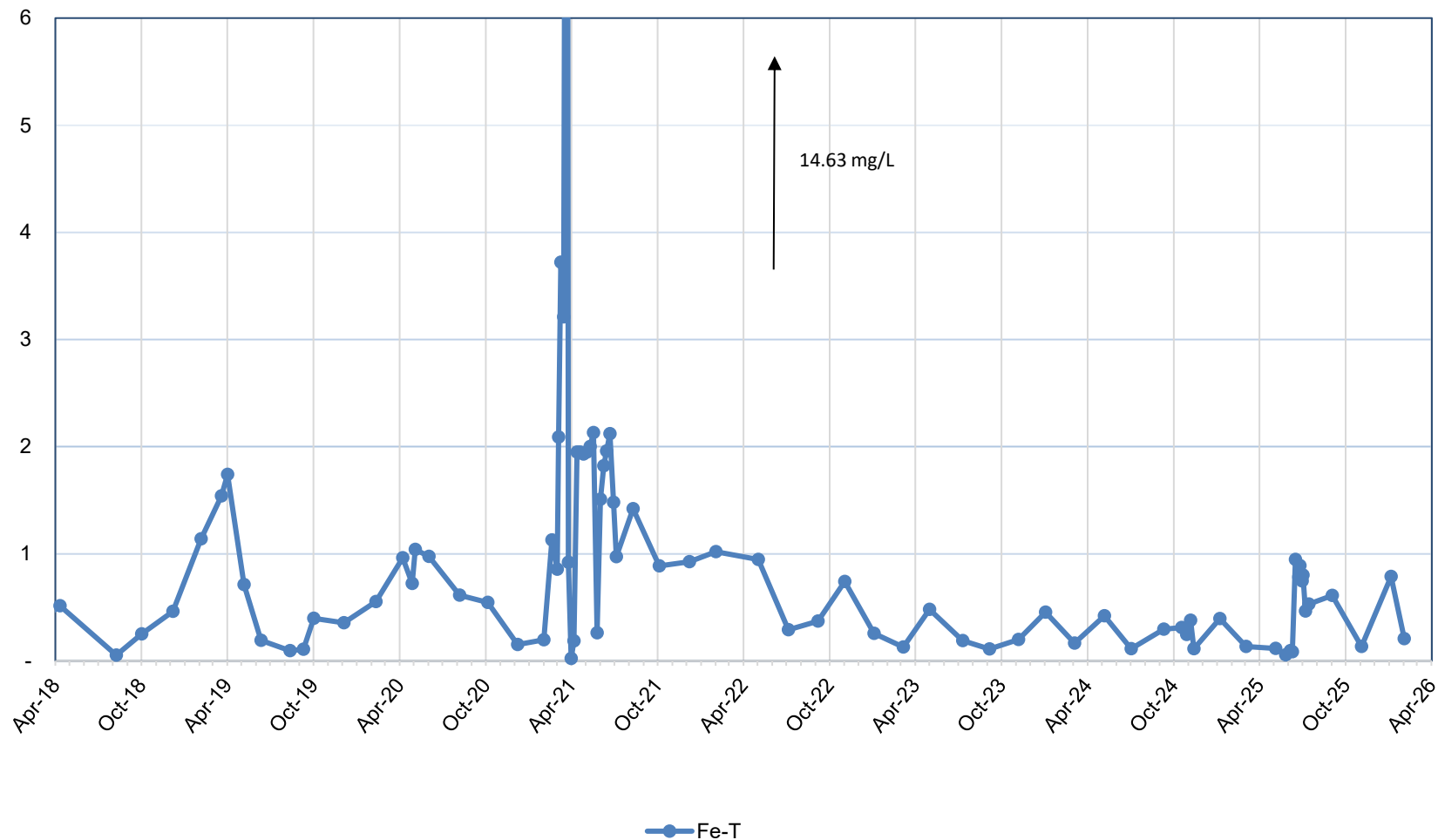
Settling Pond #4 - Arsenic, Dissolved (mg/L)



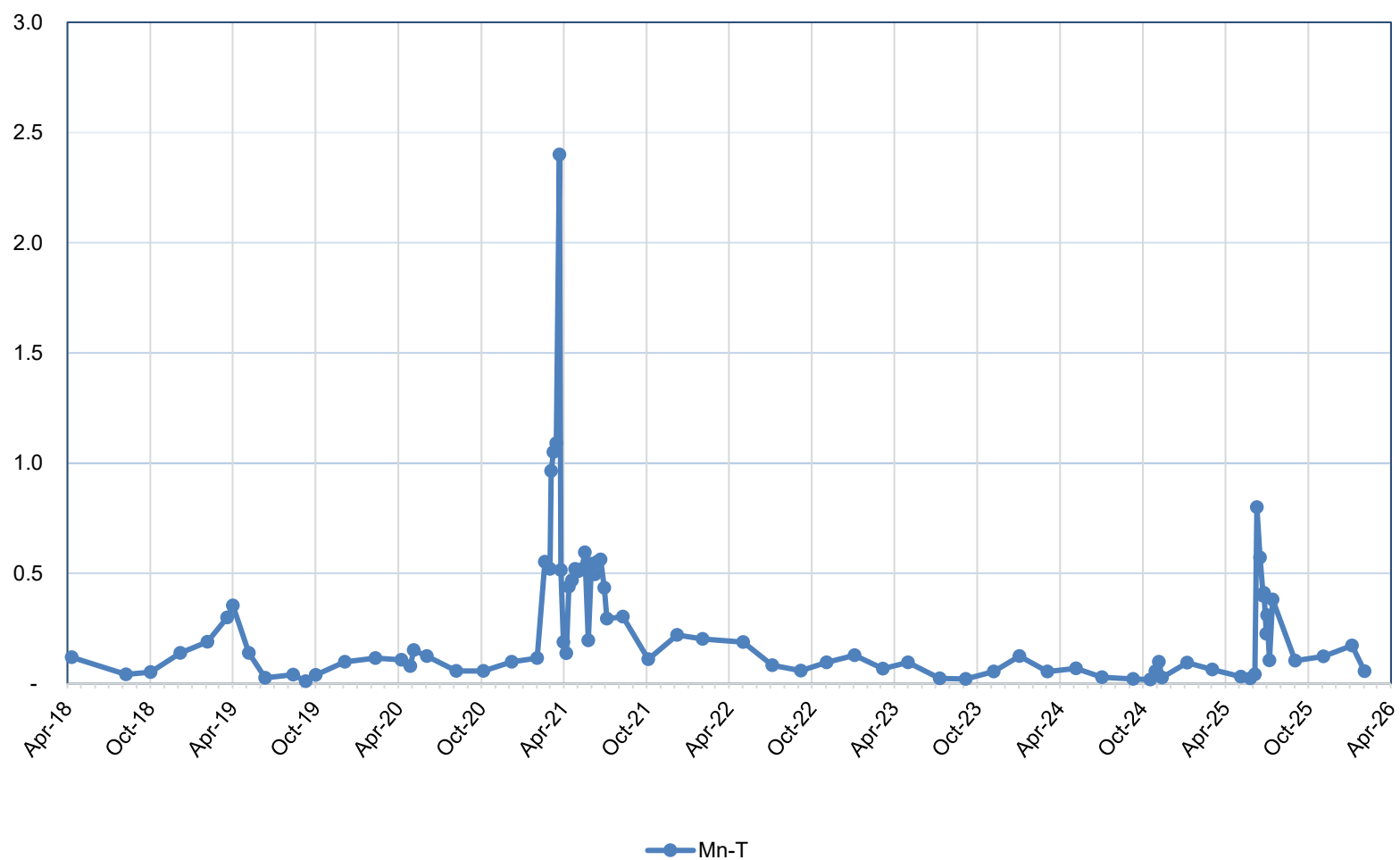
Settling Pond #4 - Iron, Dissolved (mg/L)

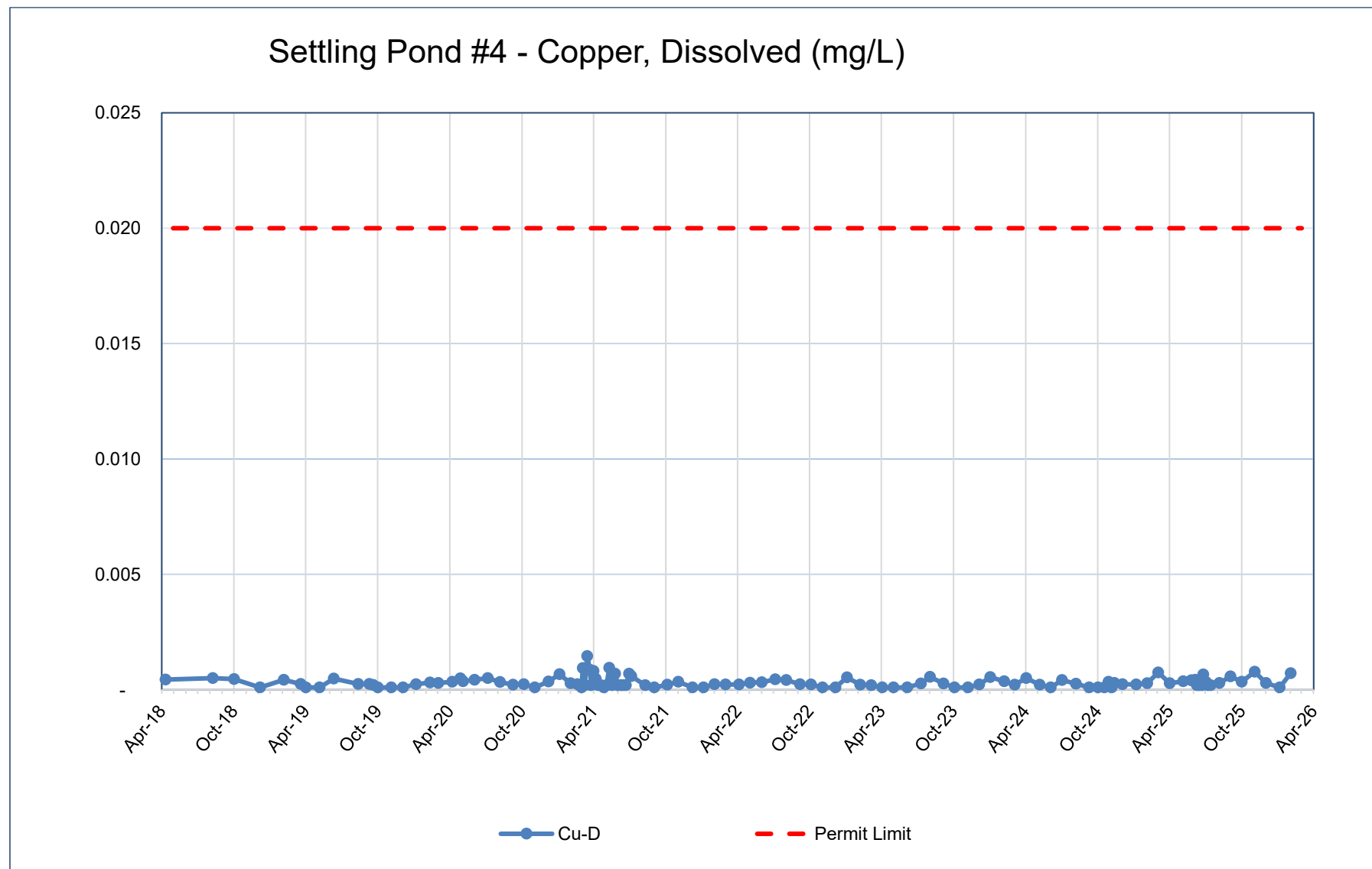


Settling Pond #4 - Iron, Total (mg/L)

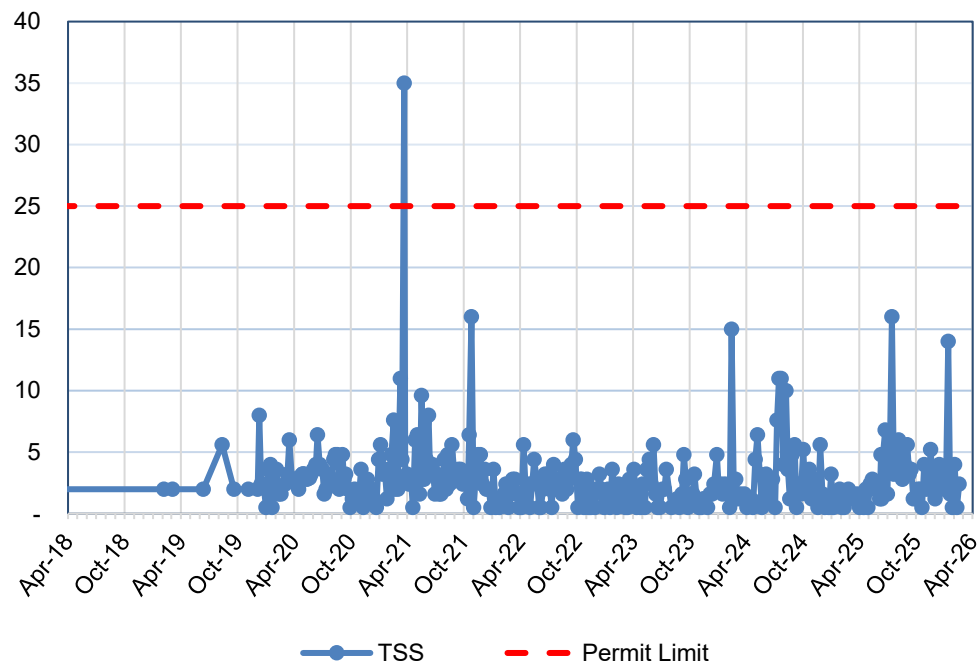


Settling Pond #4 - Manganese, Total (mg/L)

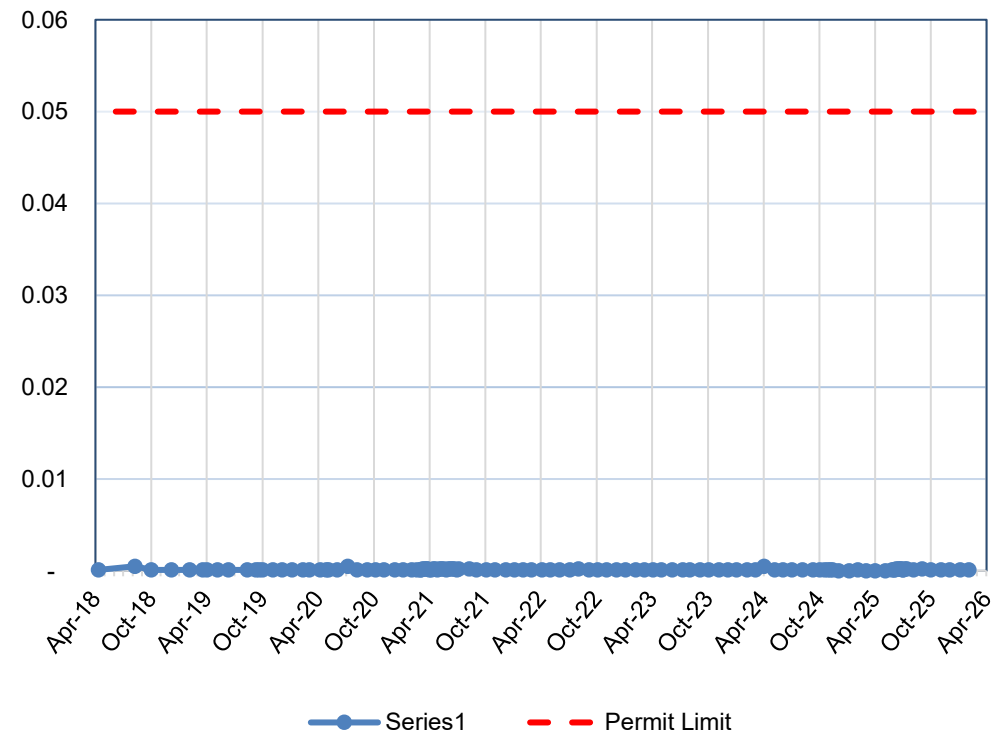




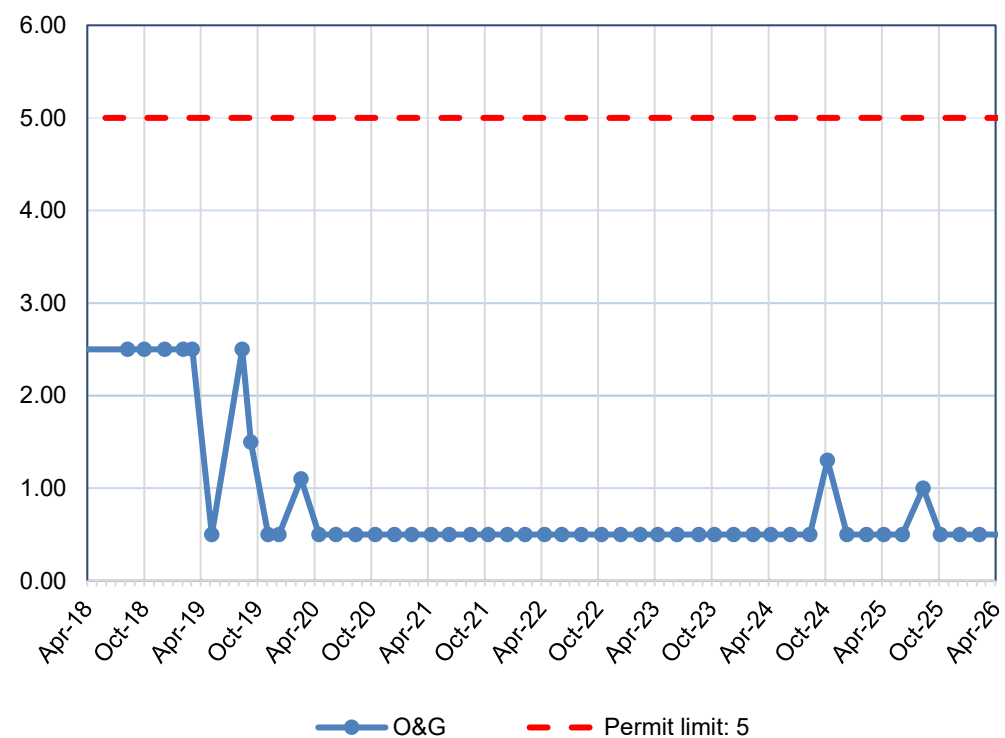
Settling Pond #4 - Total Suspended Solids (mg/L)



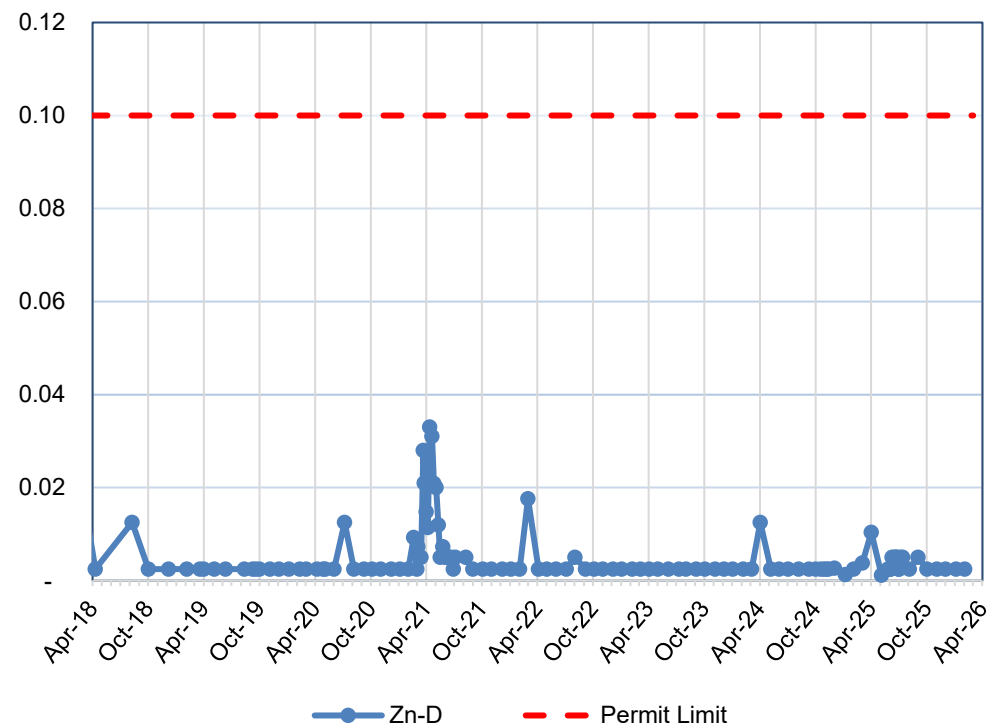
Settling Pond #4 - Lead, Dissolved (mg/L)



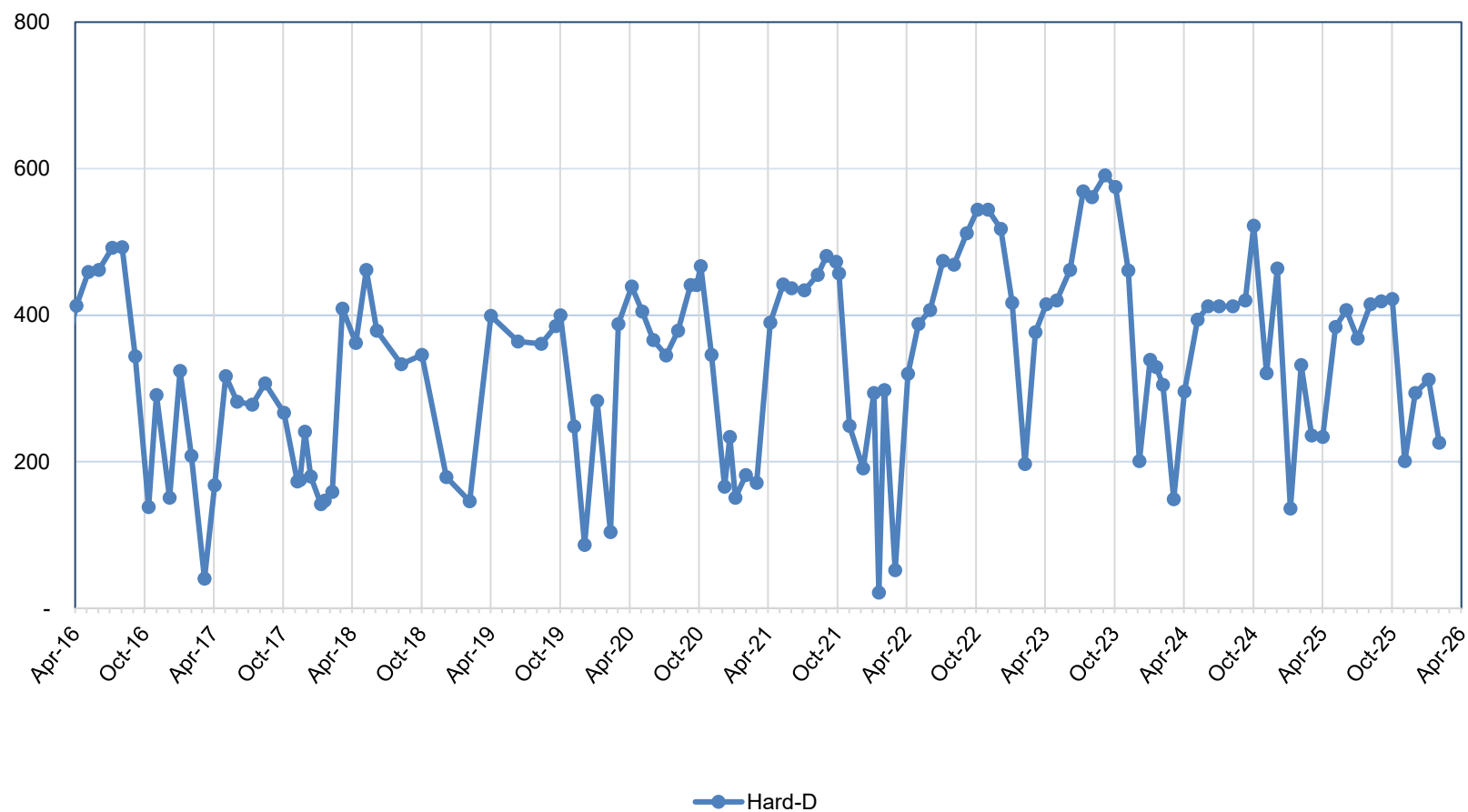
Settling Pond #4 - Oil & Grease (mg/L)

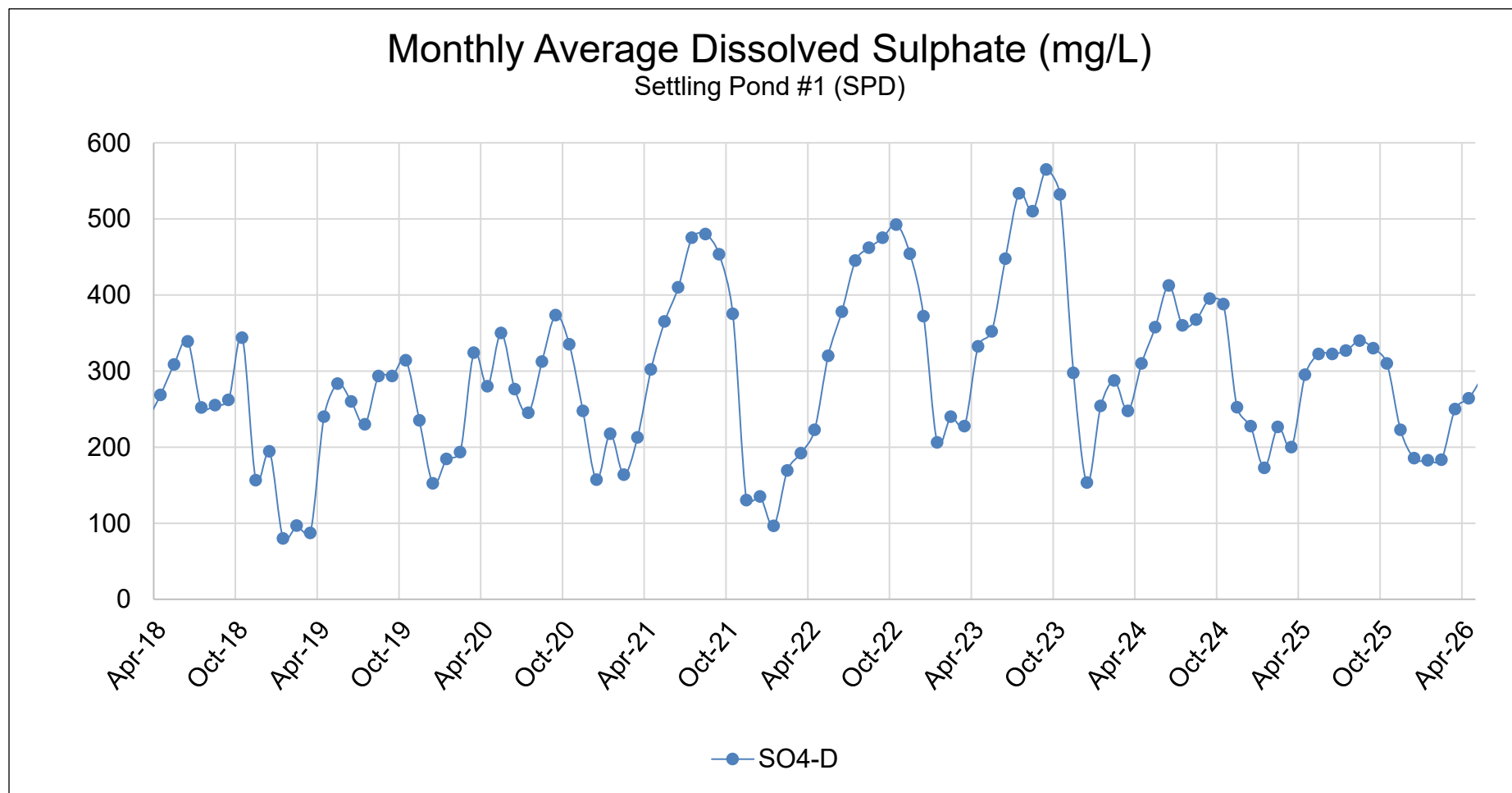


Settling Pond #4 - Zinc, Dissolved (mg/L)

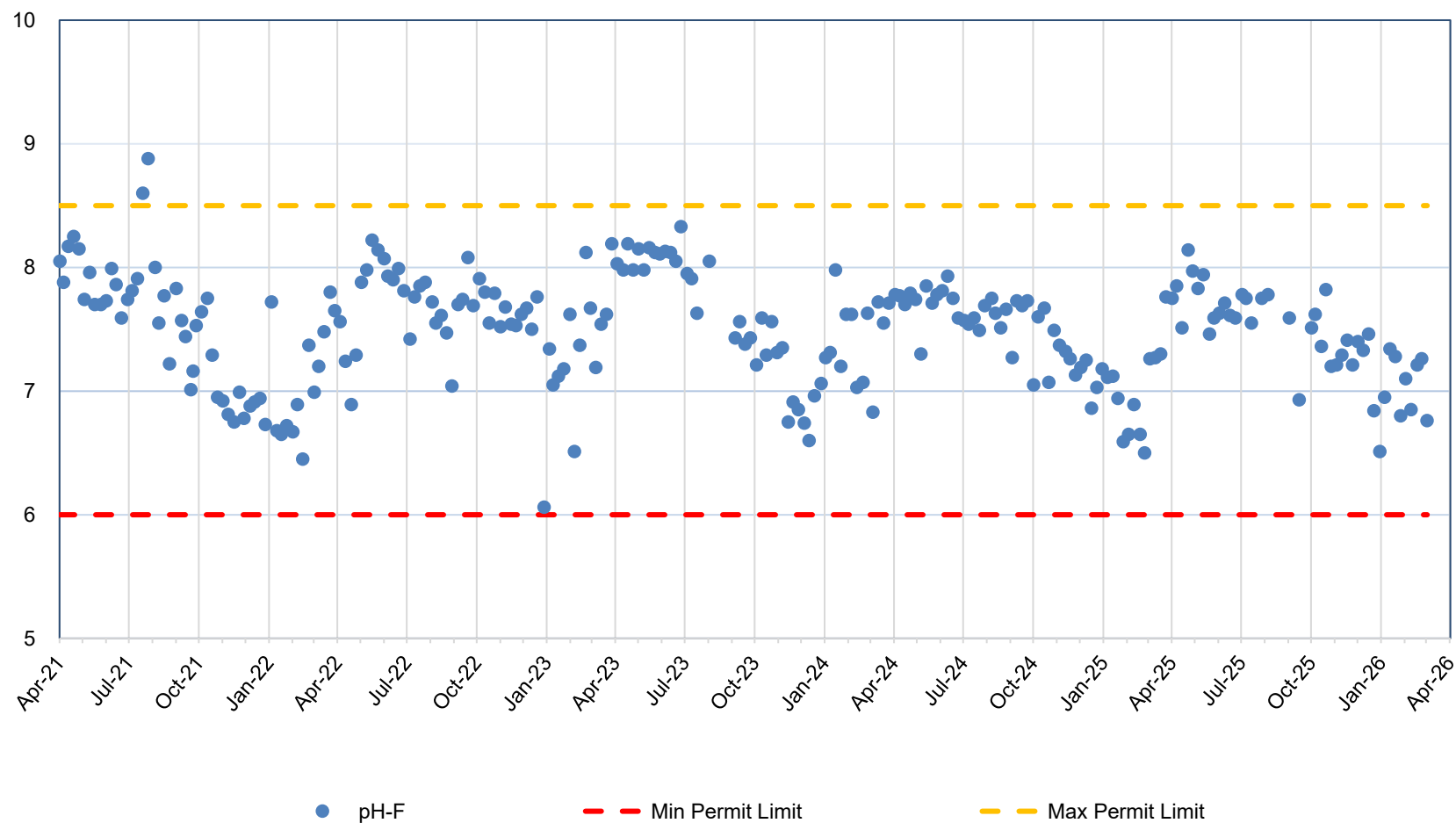


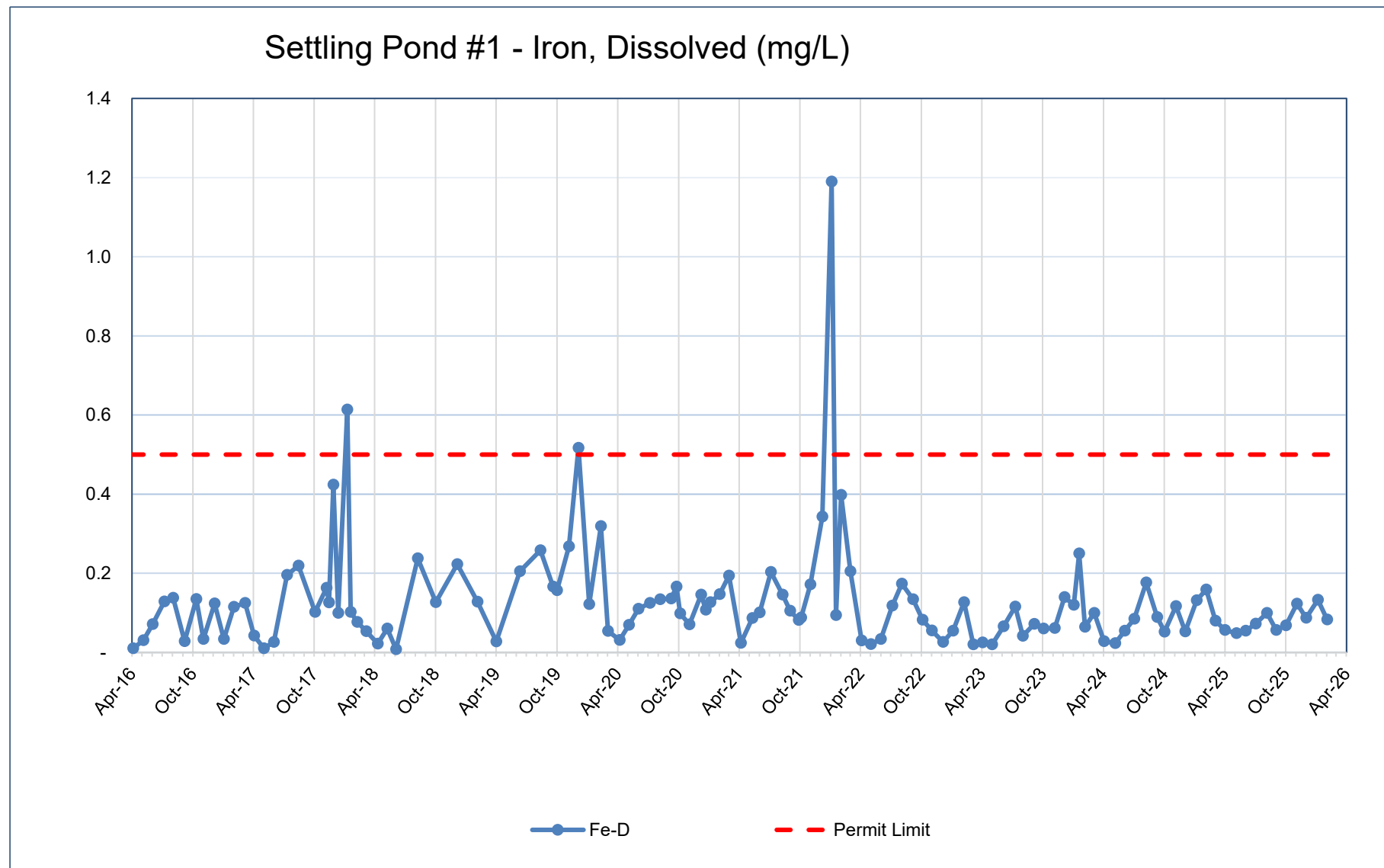
Settling Pond #1 - Hardness, Dissolved (CaCO_3) (mg/L)



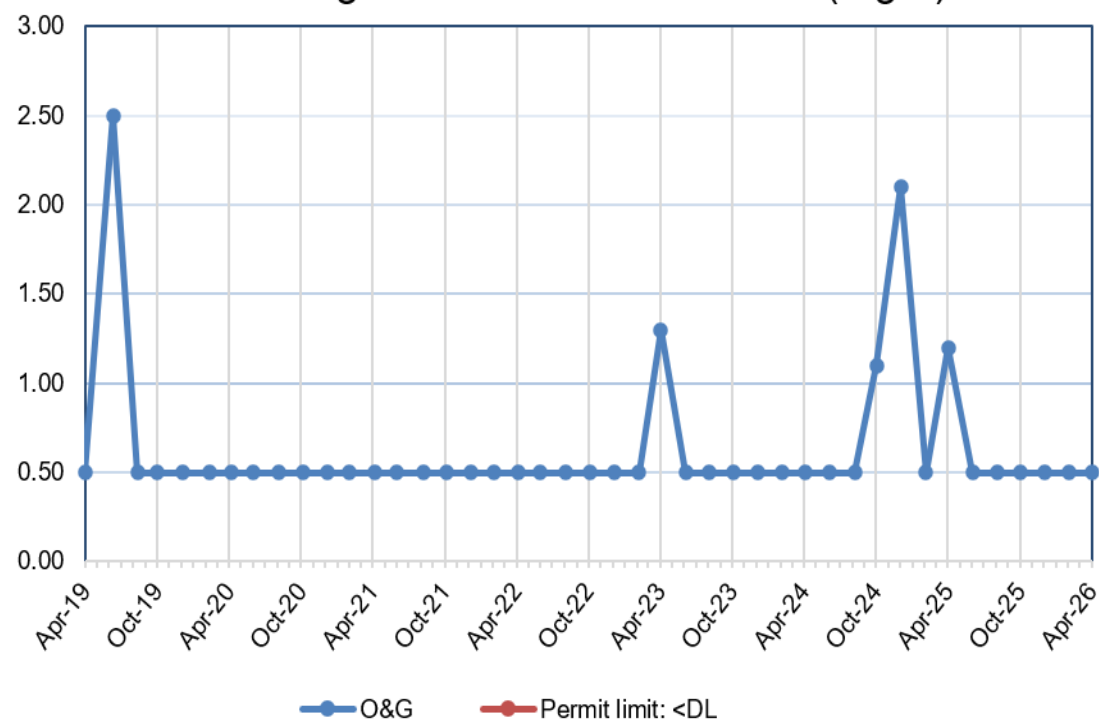


Settling Pond #1 - pH Field (pH Units)

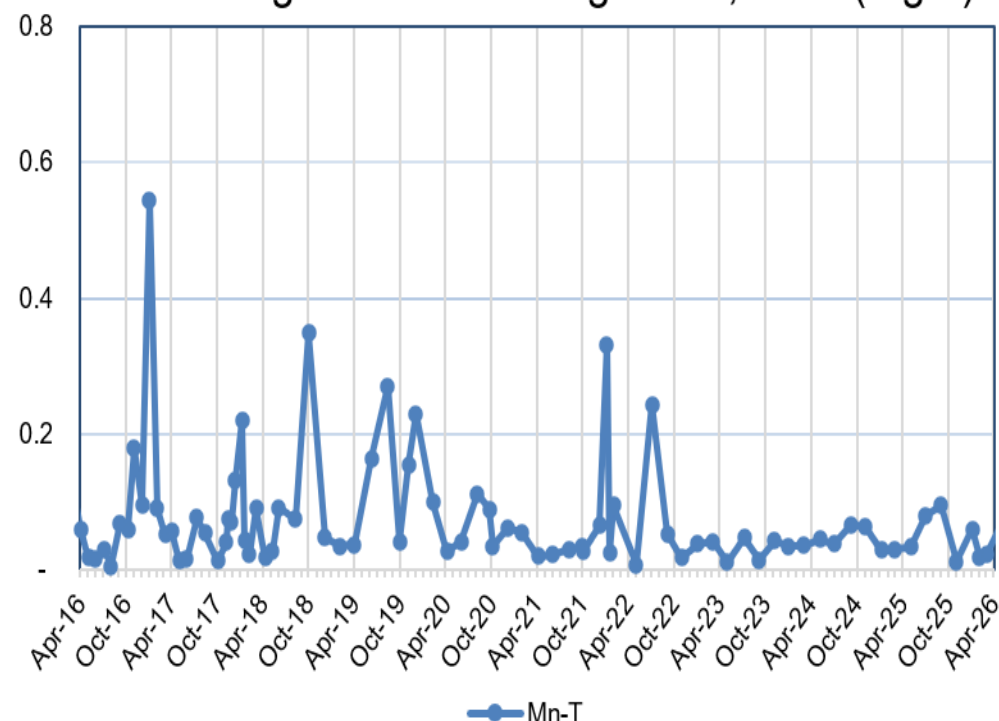




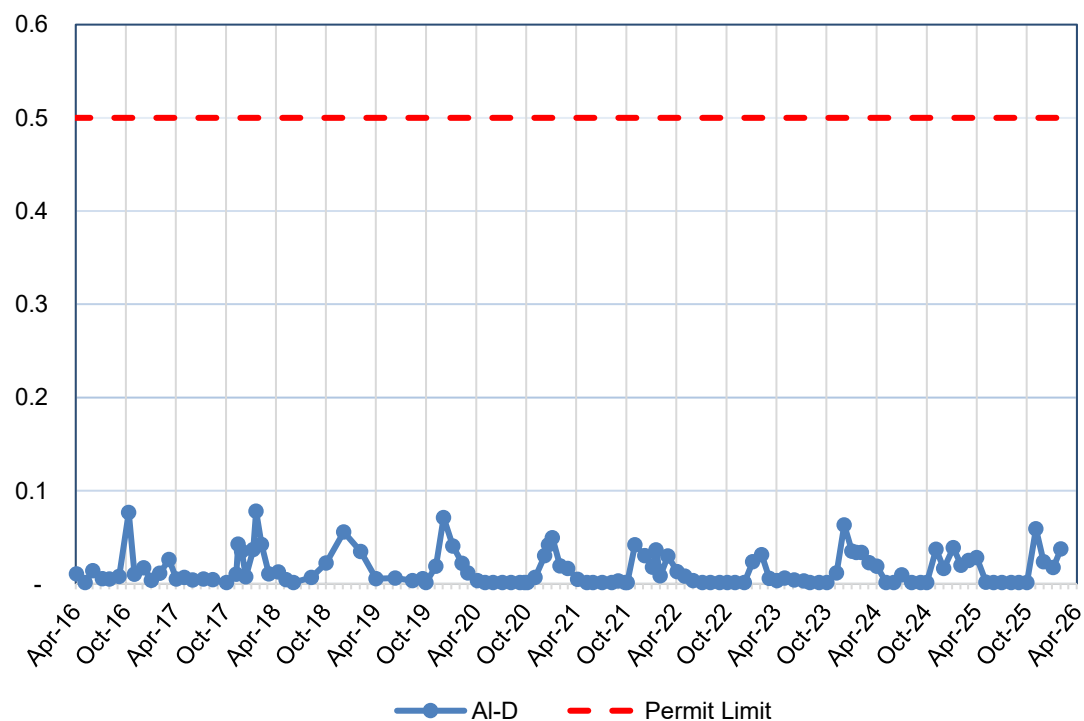
Settling Pond #1 - Oil & Grease (mg/L)



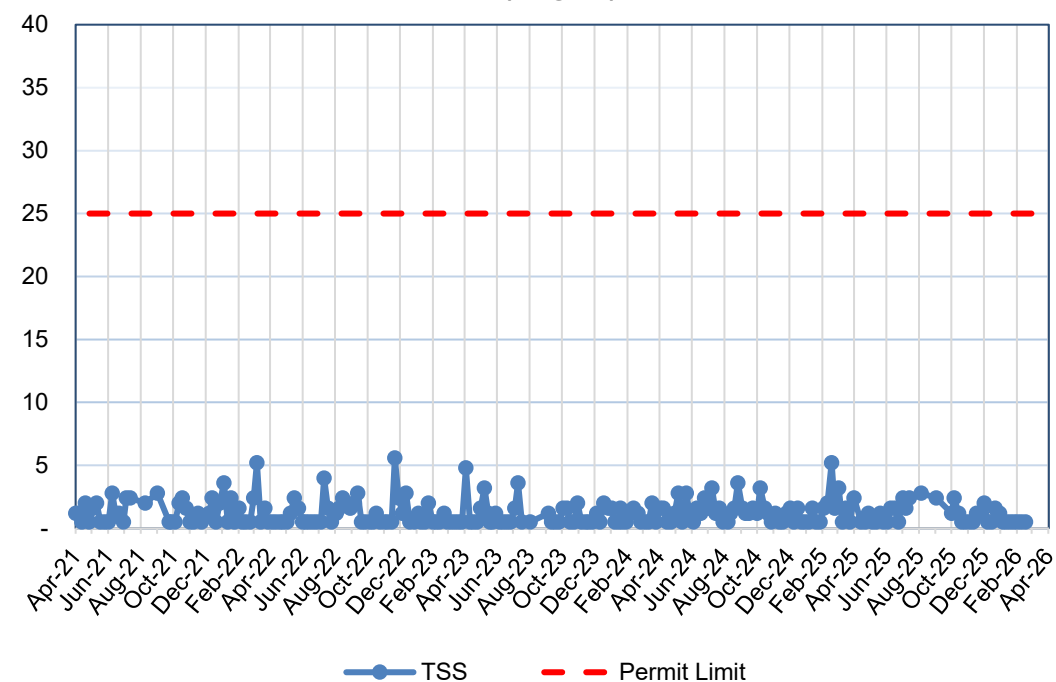
Settling Pond #1 - Manganese, Total (mg/L)



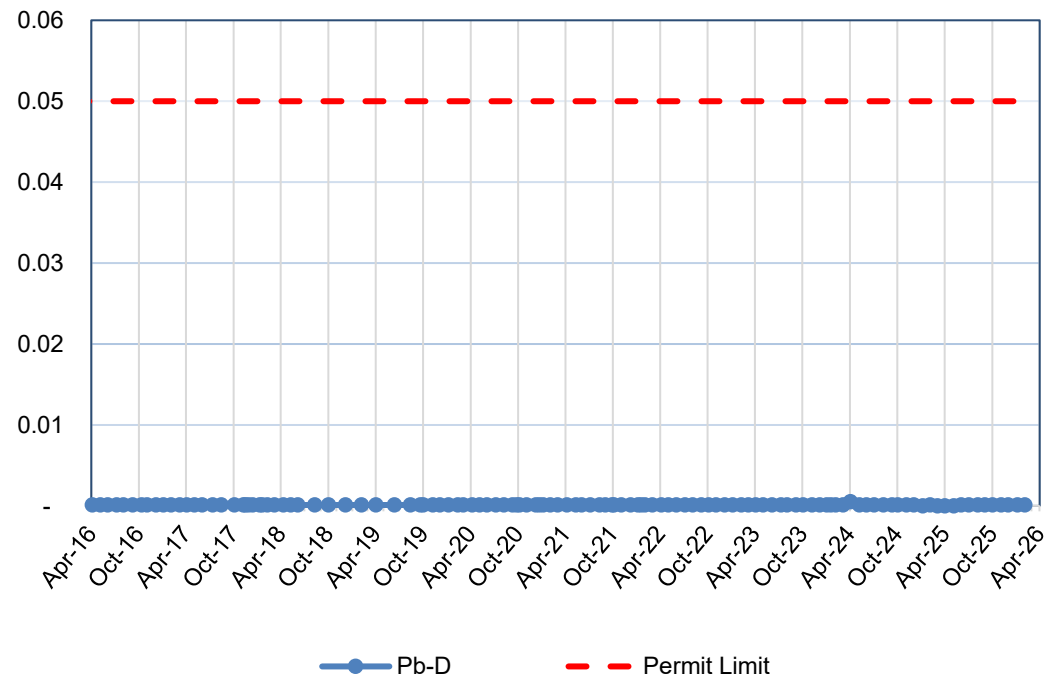
Settling Pond #1 - Aluminum, Dissolved (mg/L)



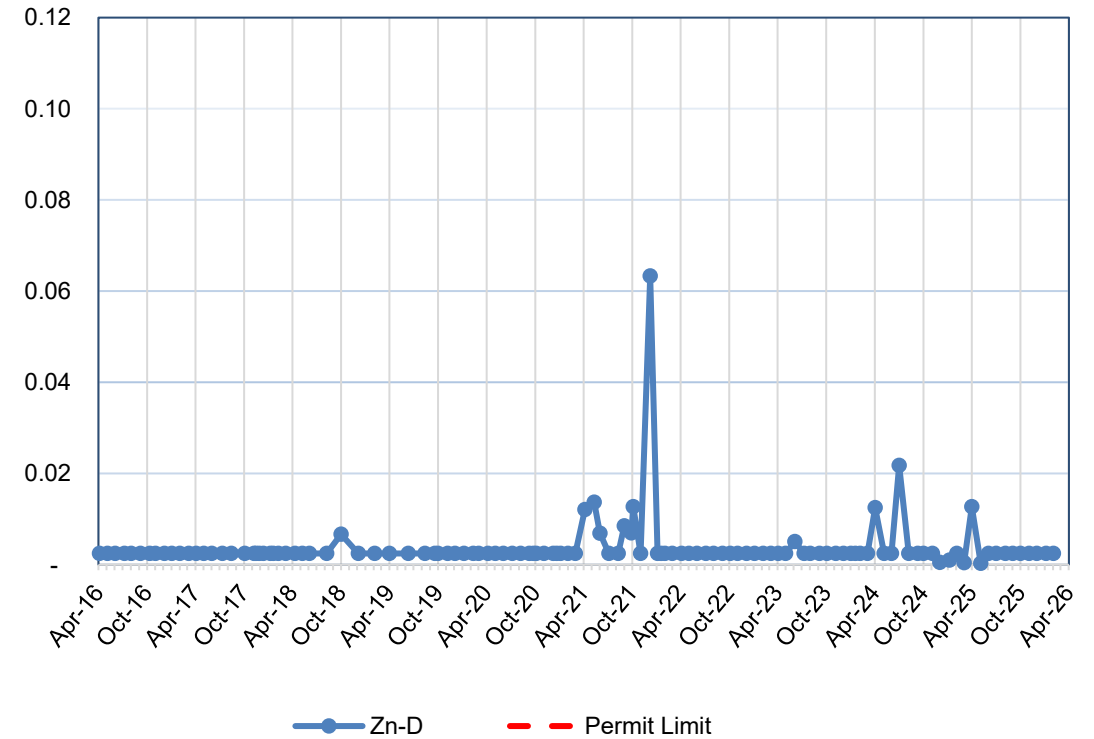
Settling Pond #1 - Total Suspended Solids (mg/L)

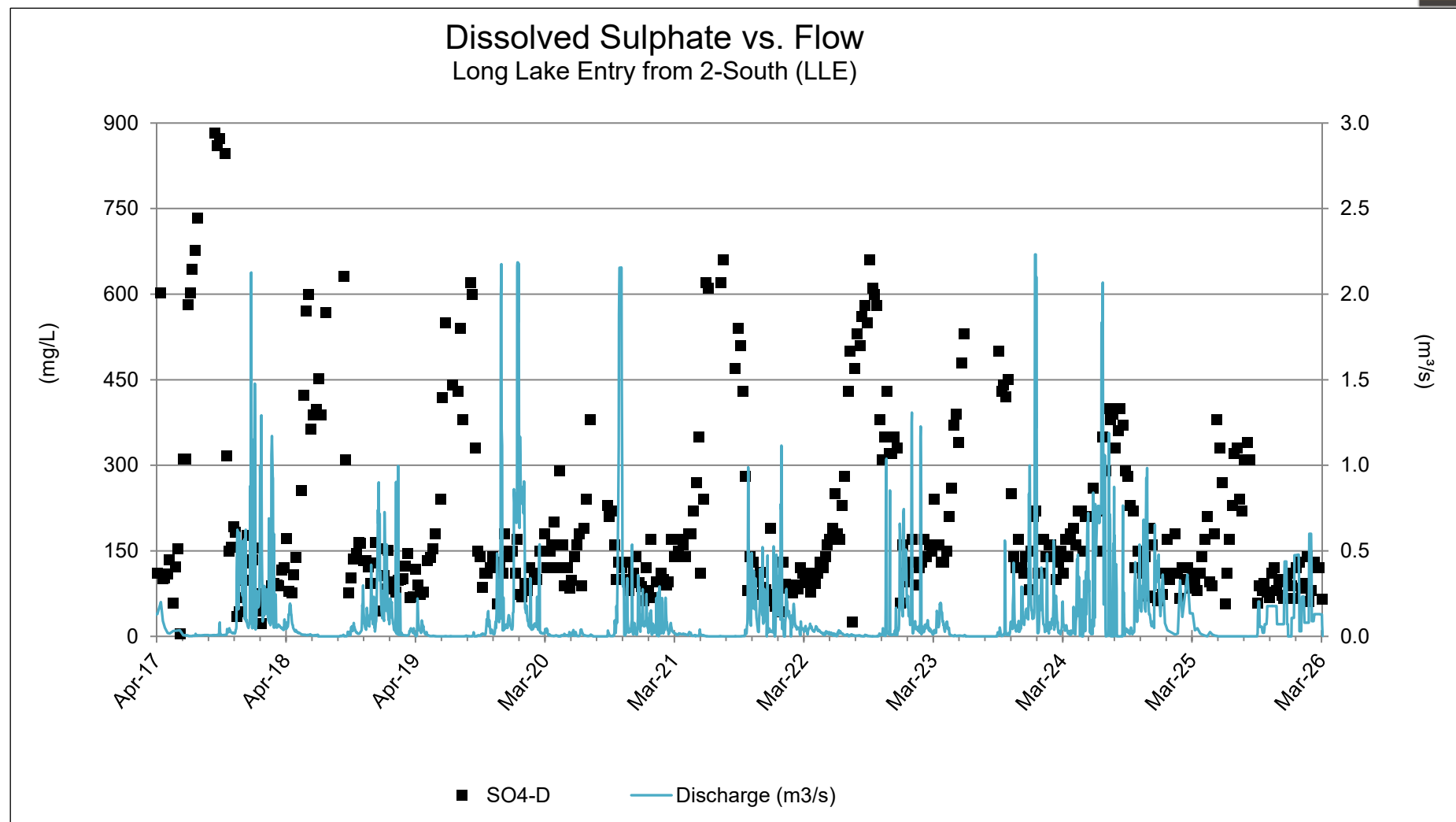


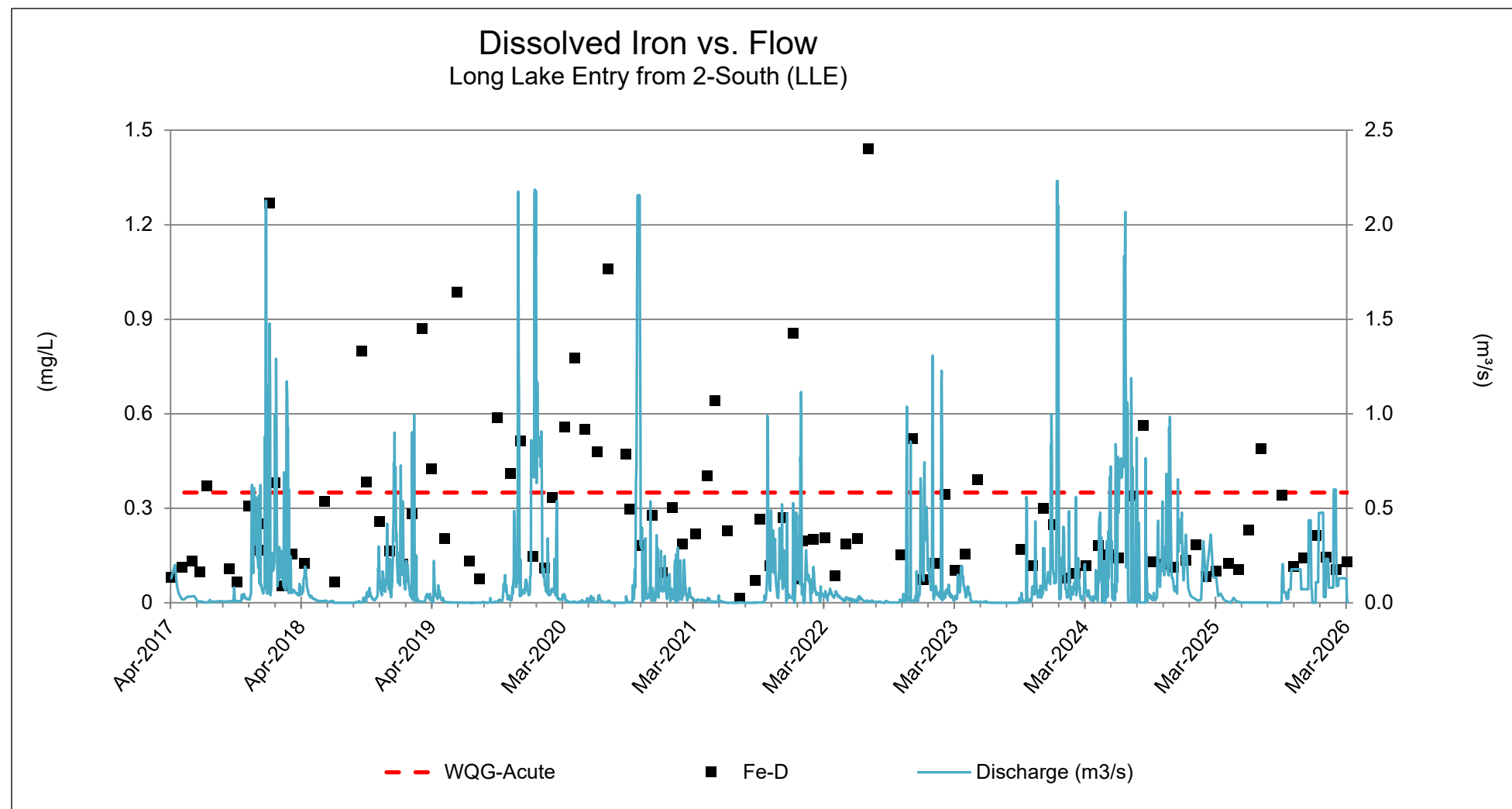
Settling Pond #1 - Lead, Dissolved (mg/L)

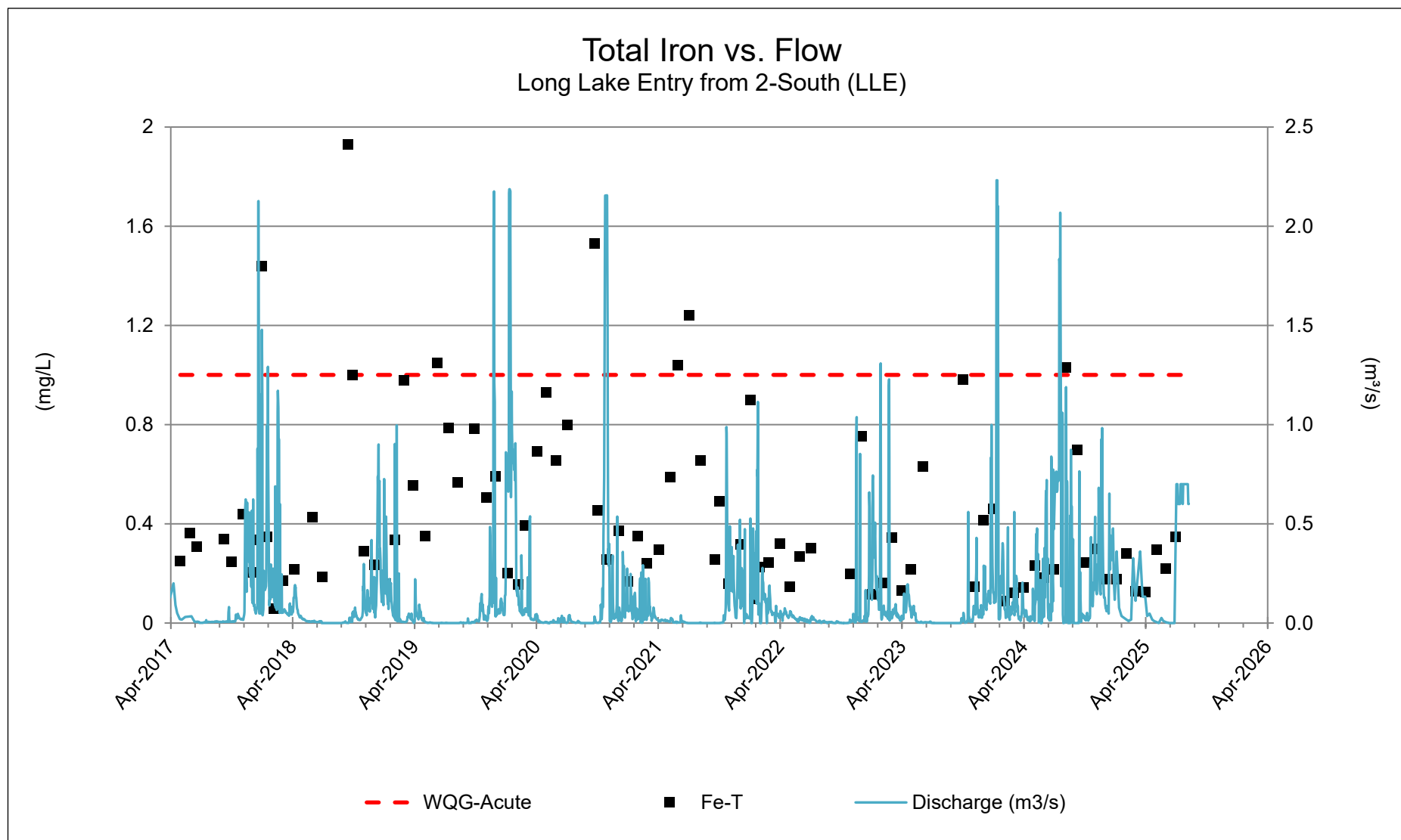


Settling Pond #1 - Zinc, Dissolved (mg/L)

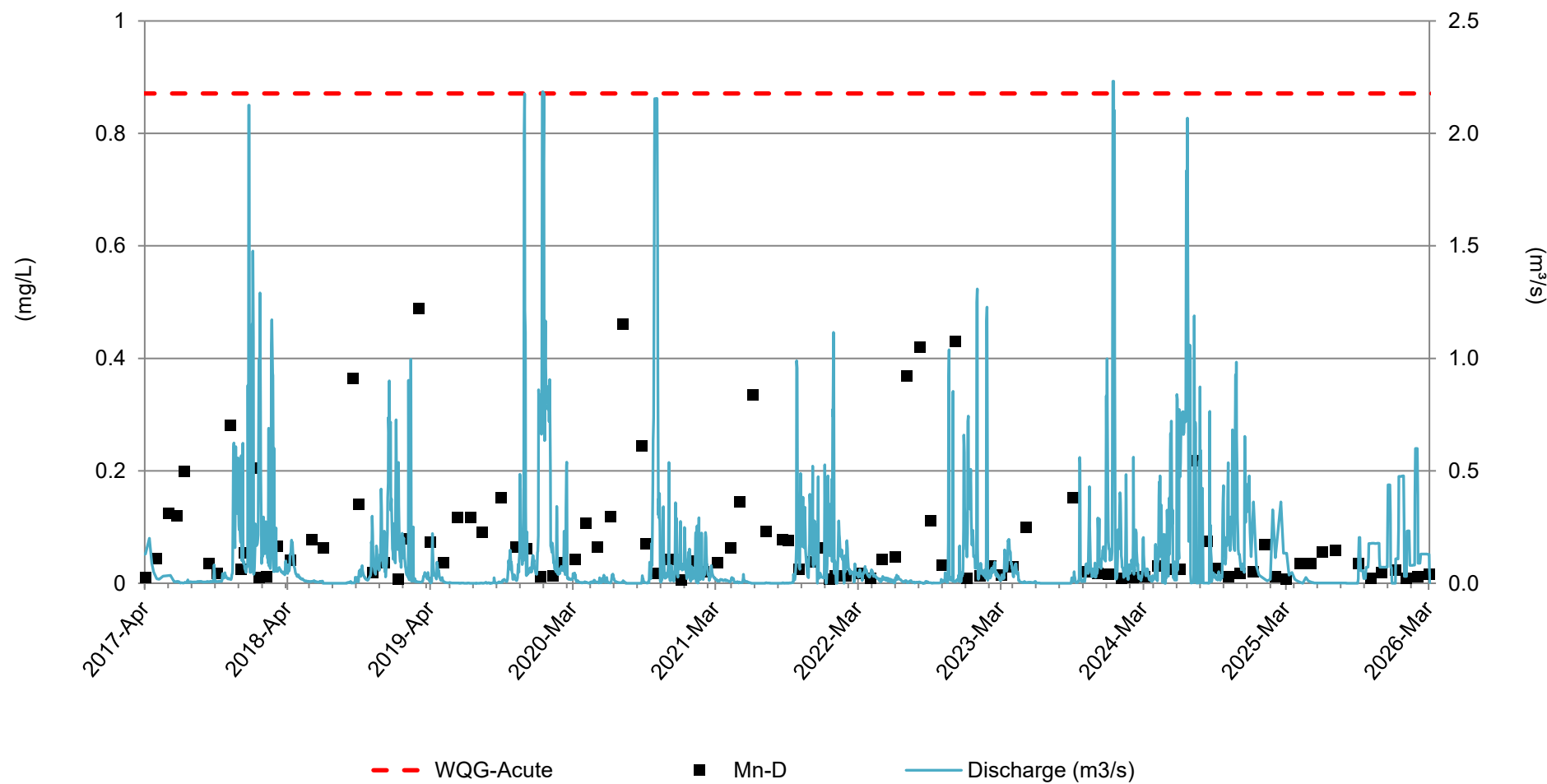


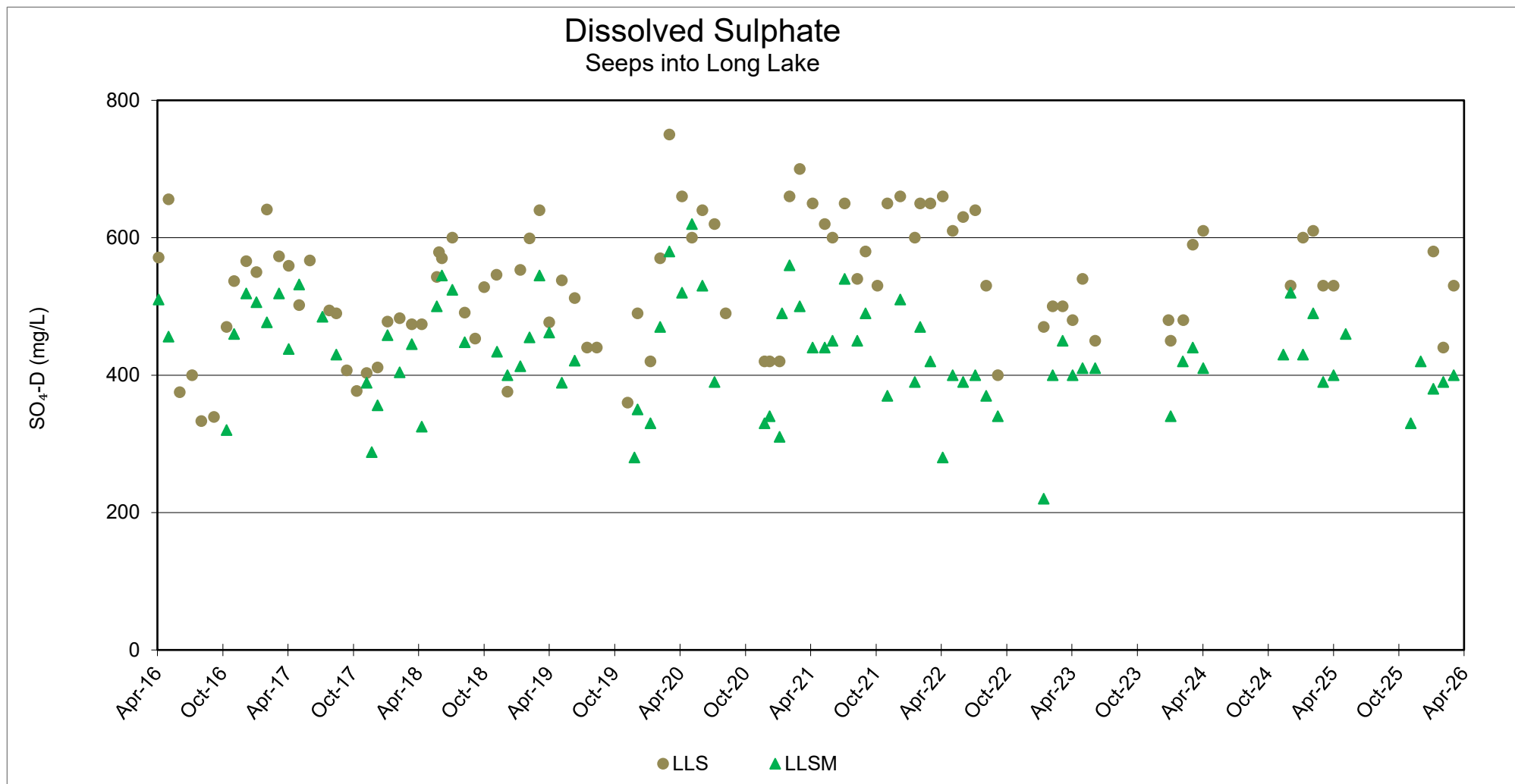


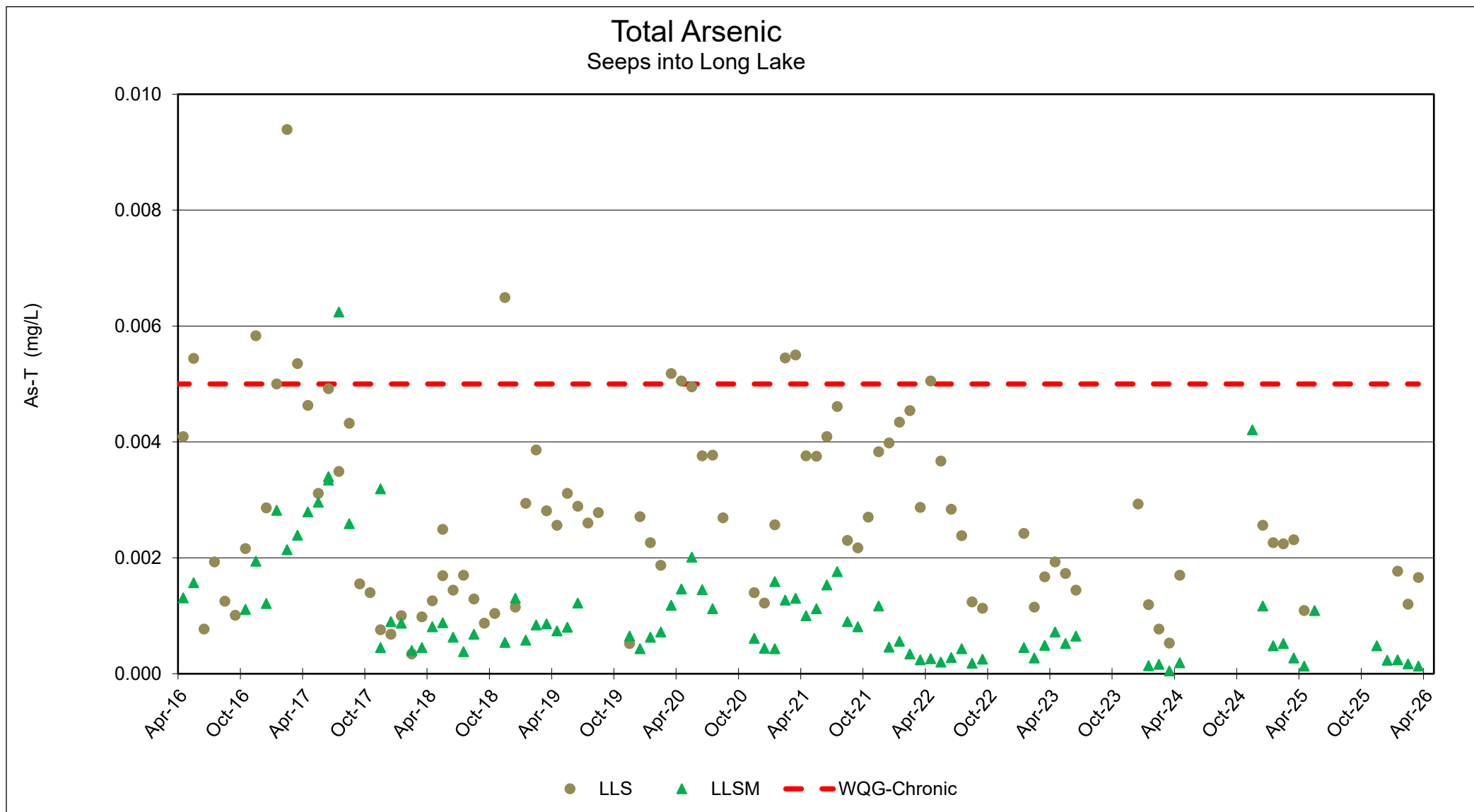


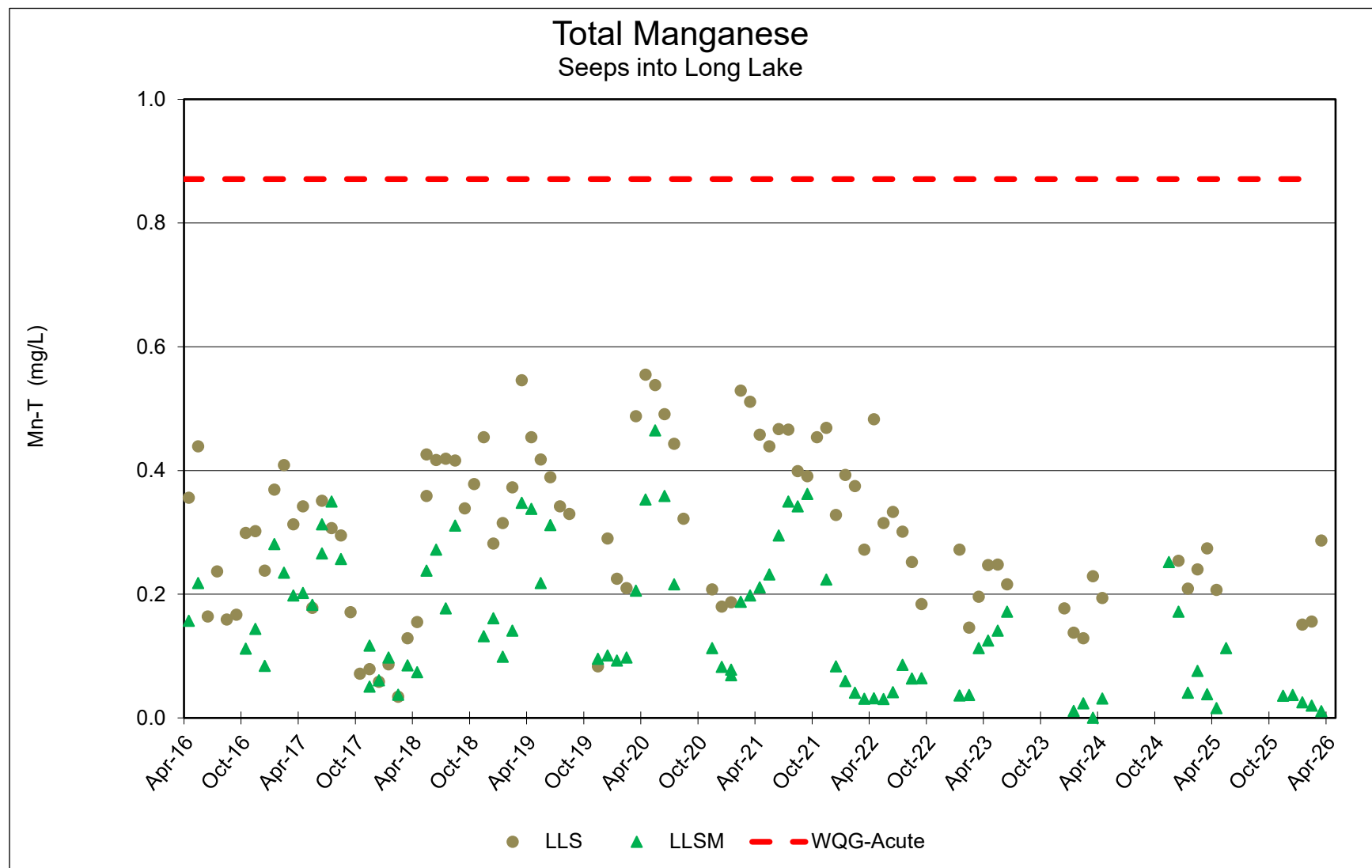


Dissolved Manganese vs. Flow
Long Lake Entry from 2-South (LLE)

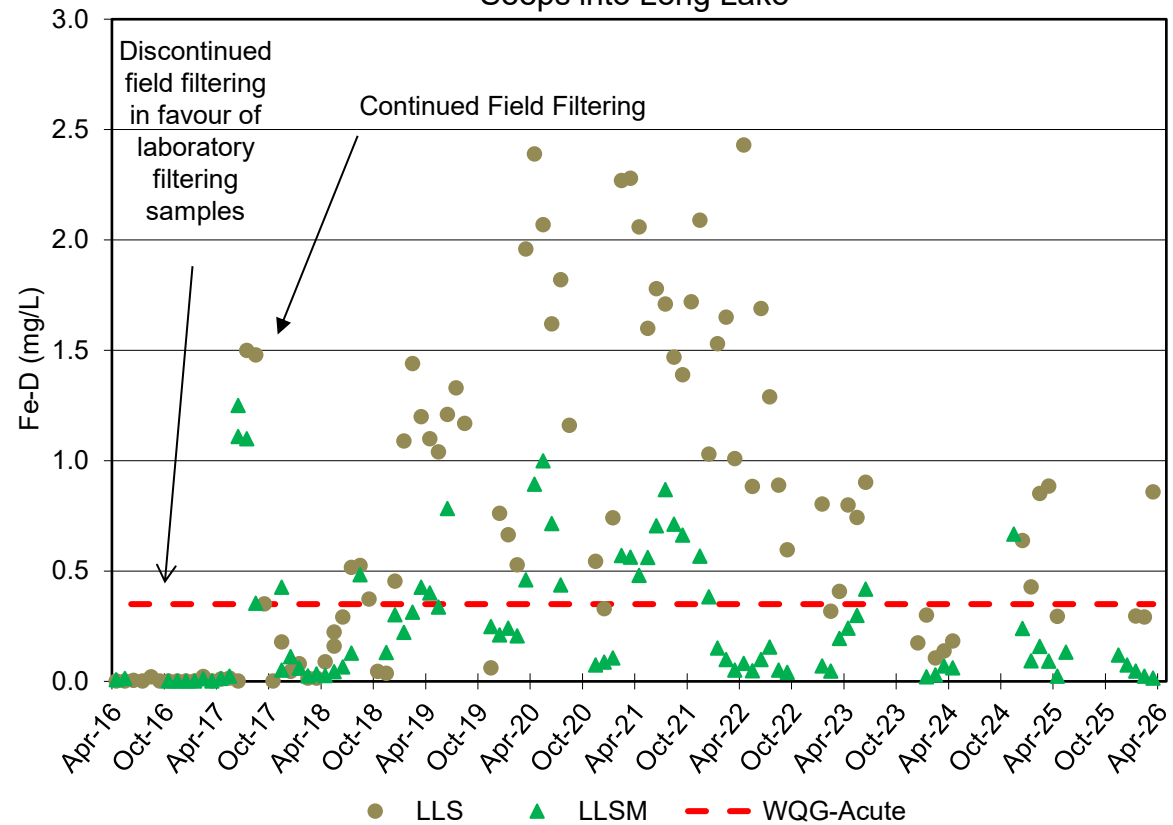




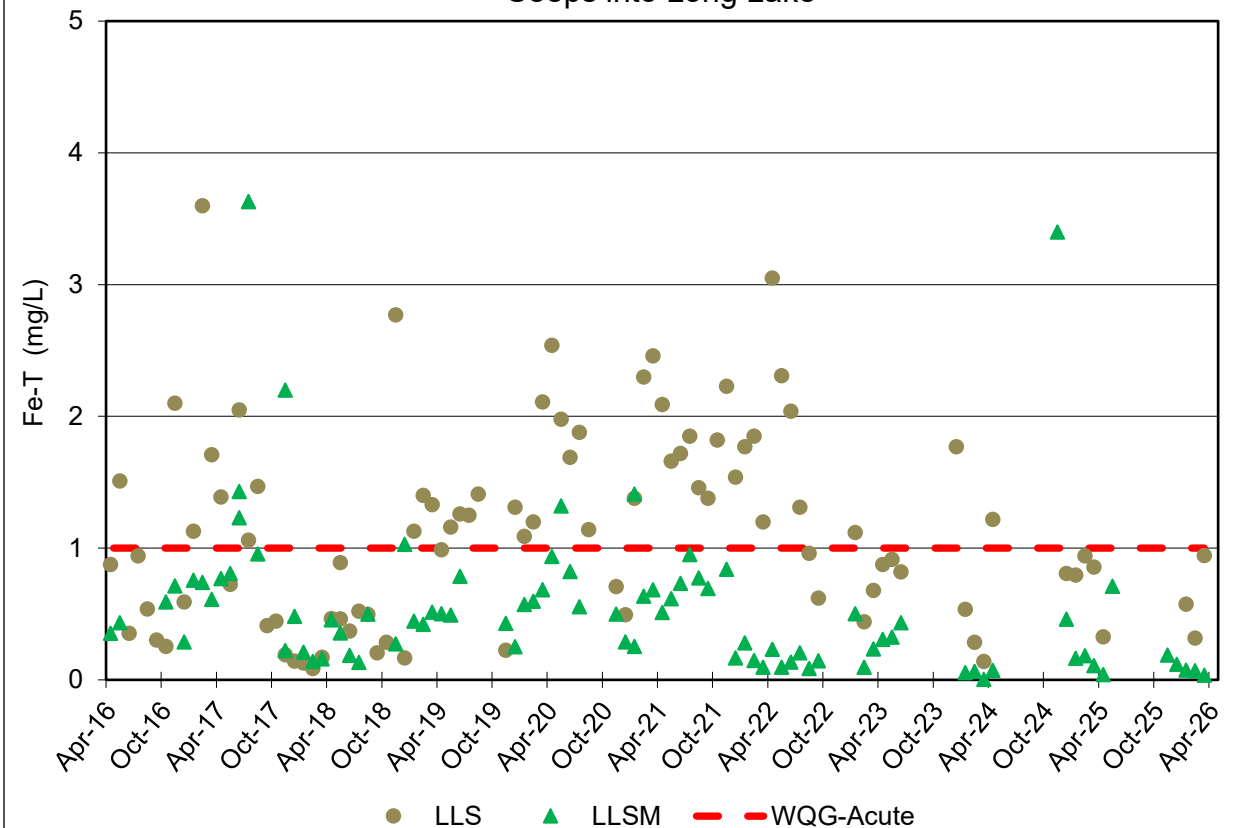




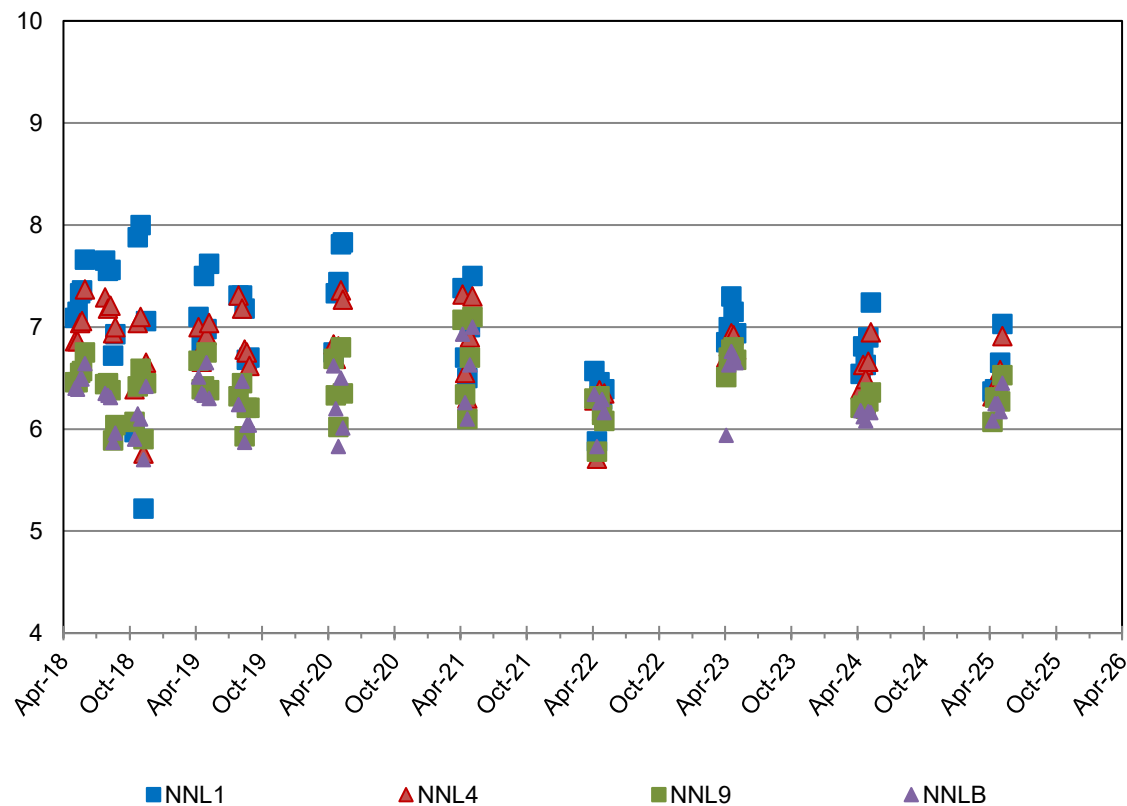
Dissolved Iron Seeps into Long Lake



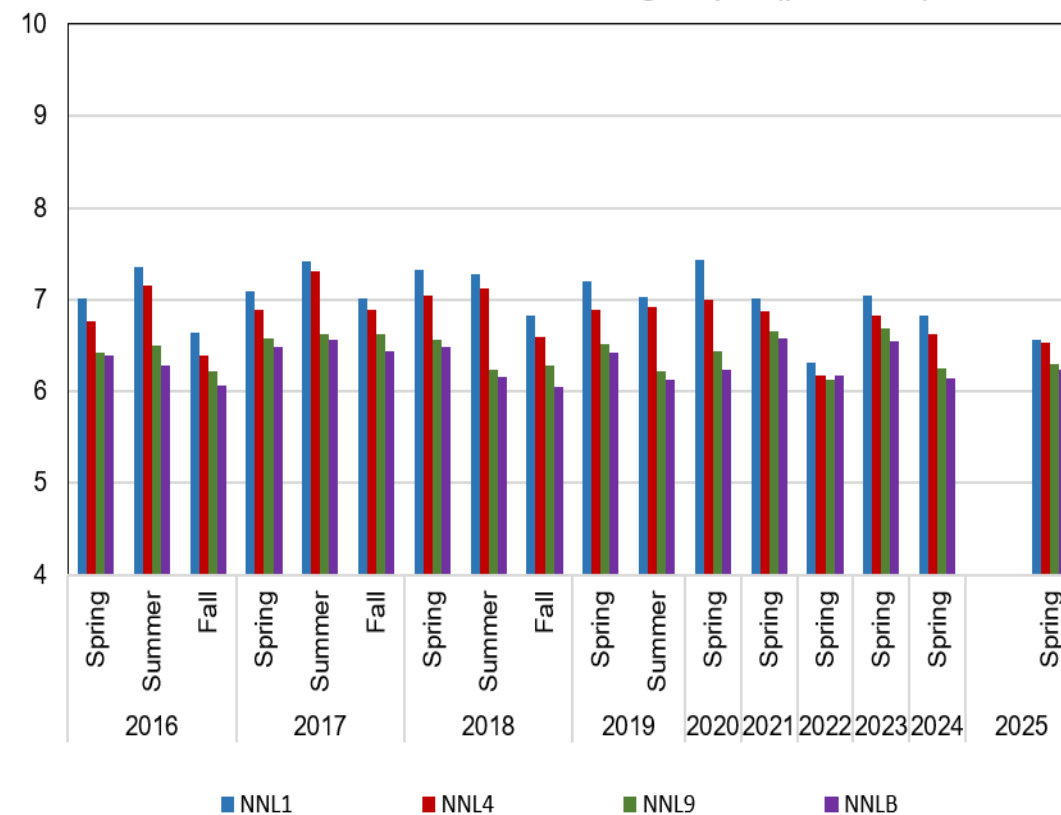
Total Iron Seeps into Long Lake



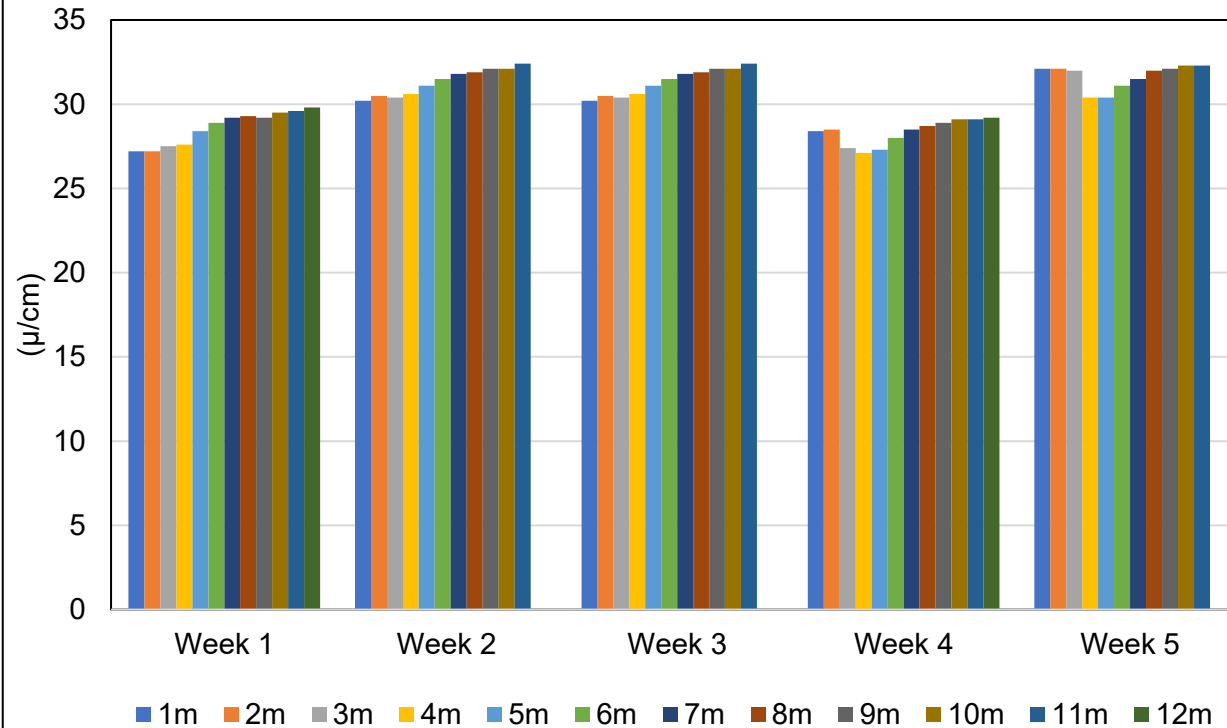
No Name Lake 5 in 30 - pH Field (pH Units)



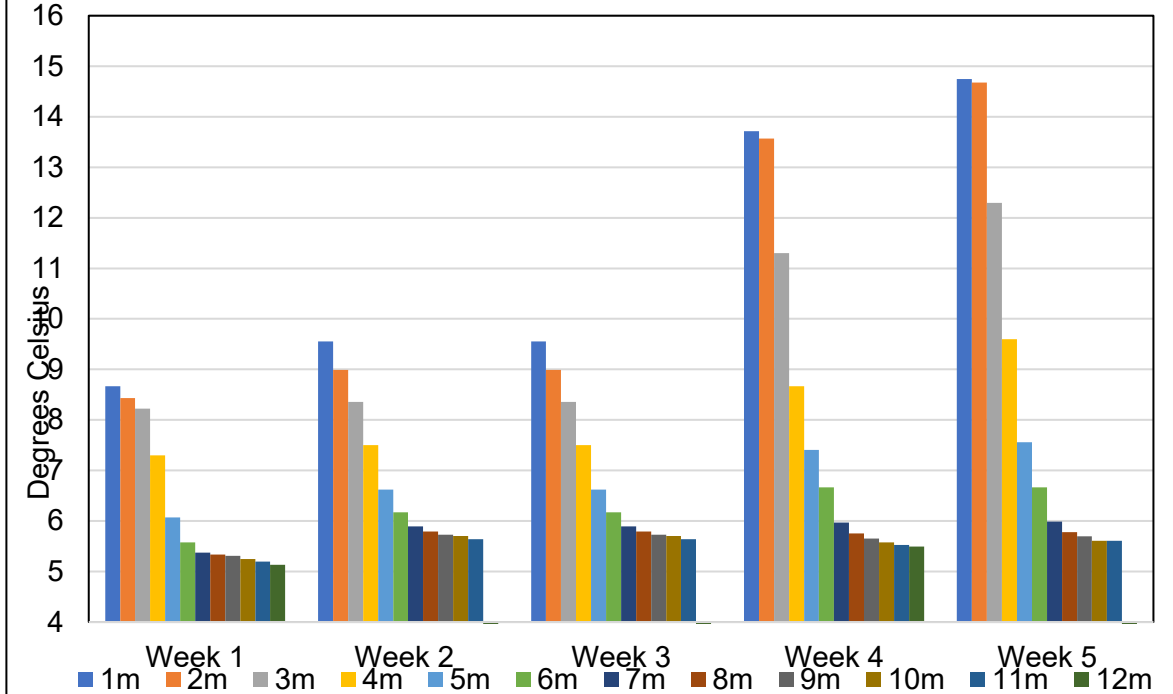
No Name Lake 5 in 30 Average - pH (pH units)



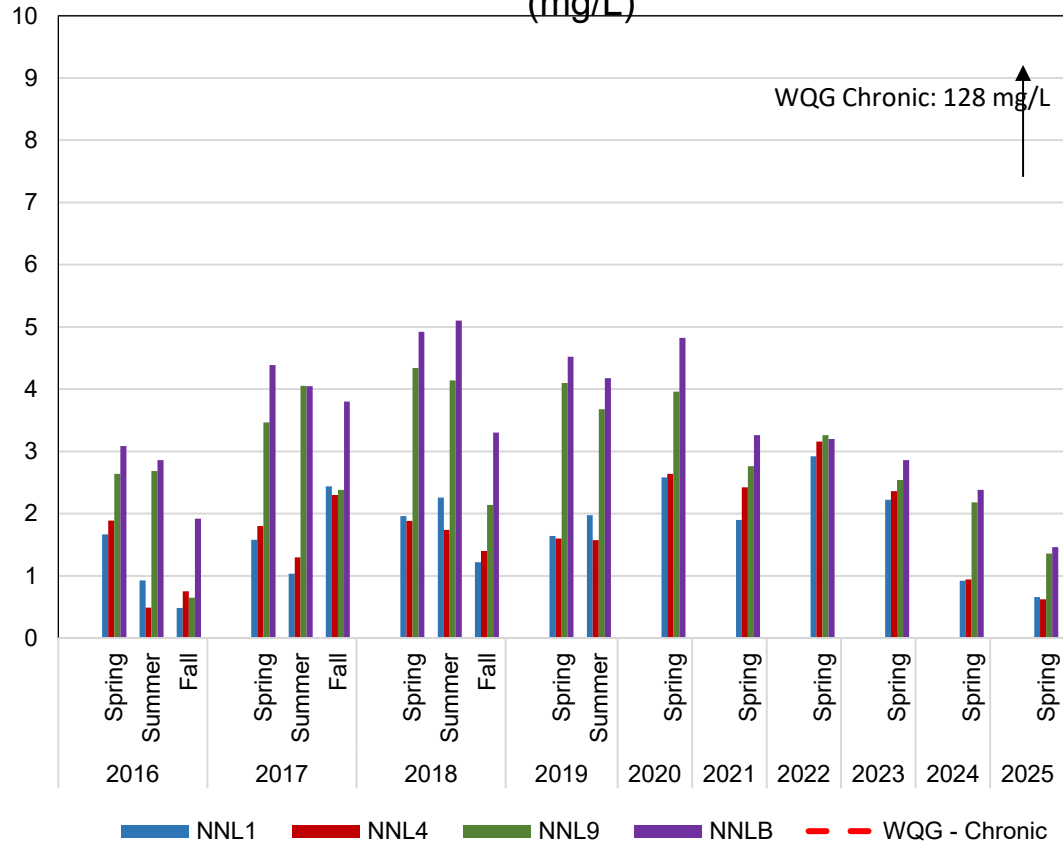
No Name Lake
Conductivity $\mu\text{S}/\text{cm}$ versus Depth (m)



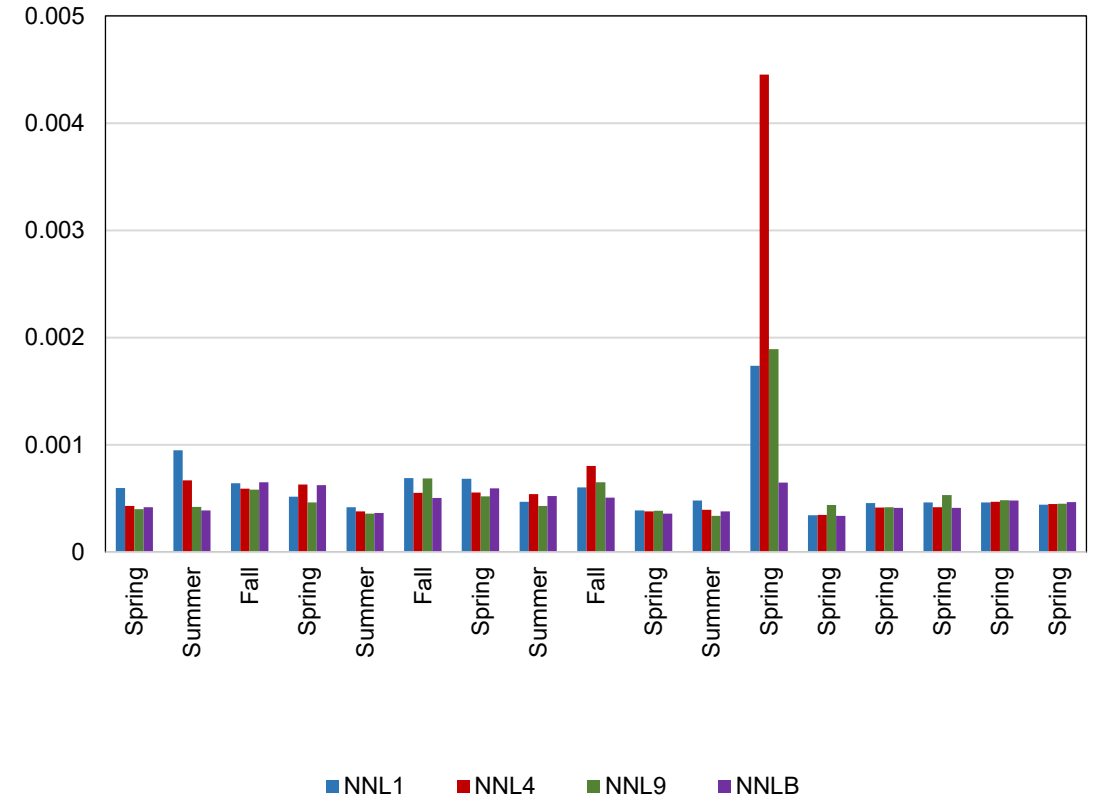
No Name Lake
Temperature (Degrees Celsius) versus Depth (m)



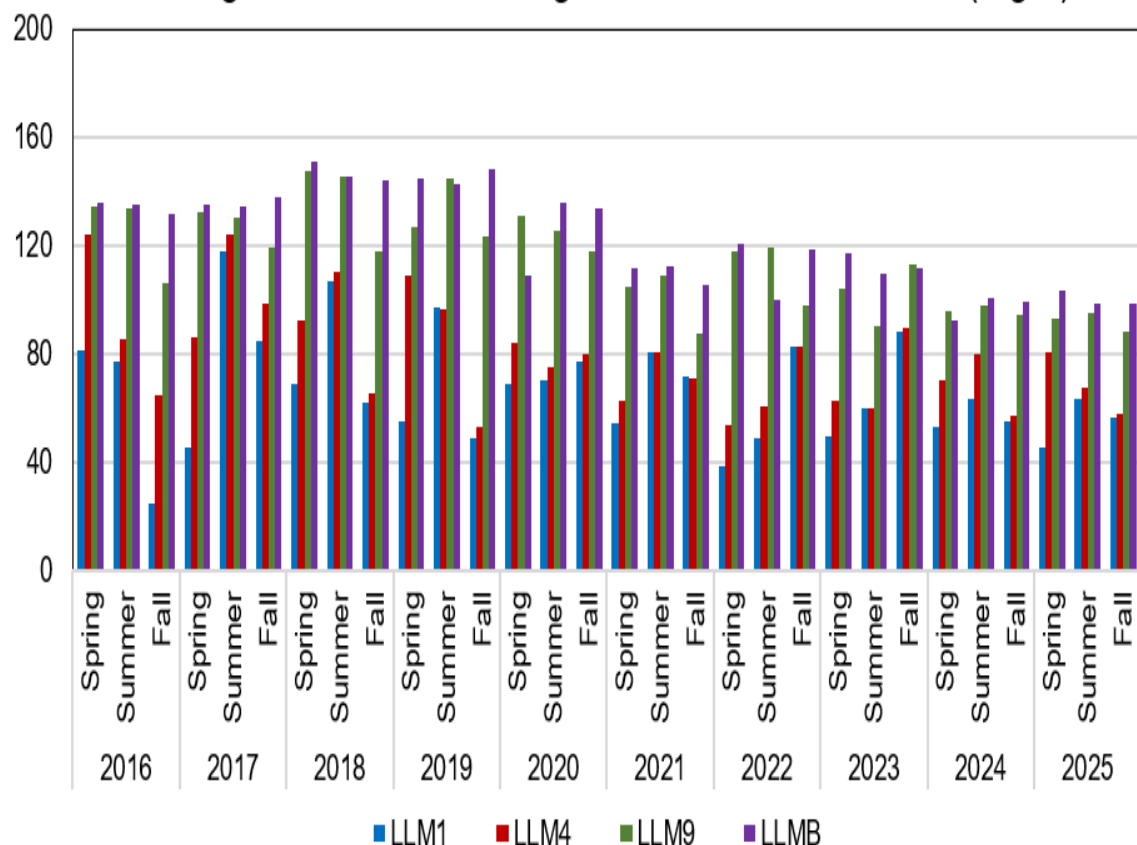
No Name Lake 5 in 30 Average - Dissolved Sulphate (mg/L)



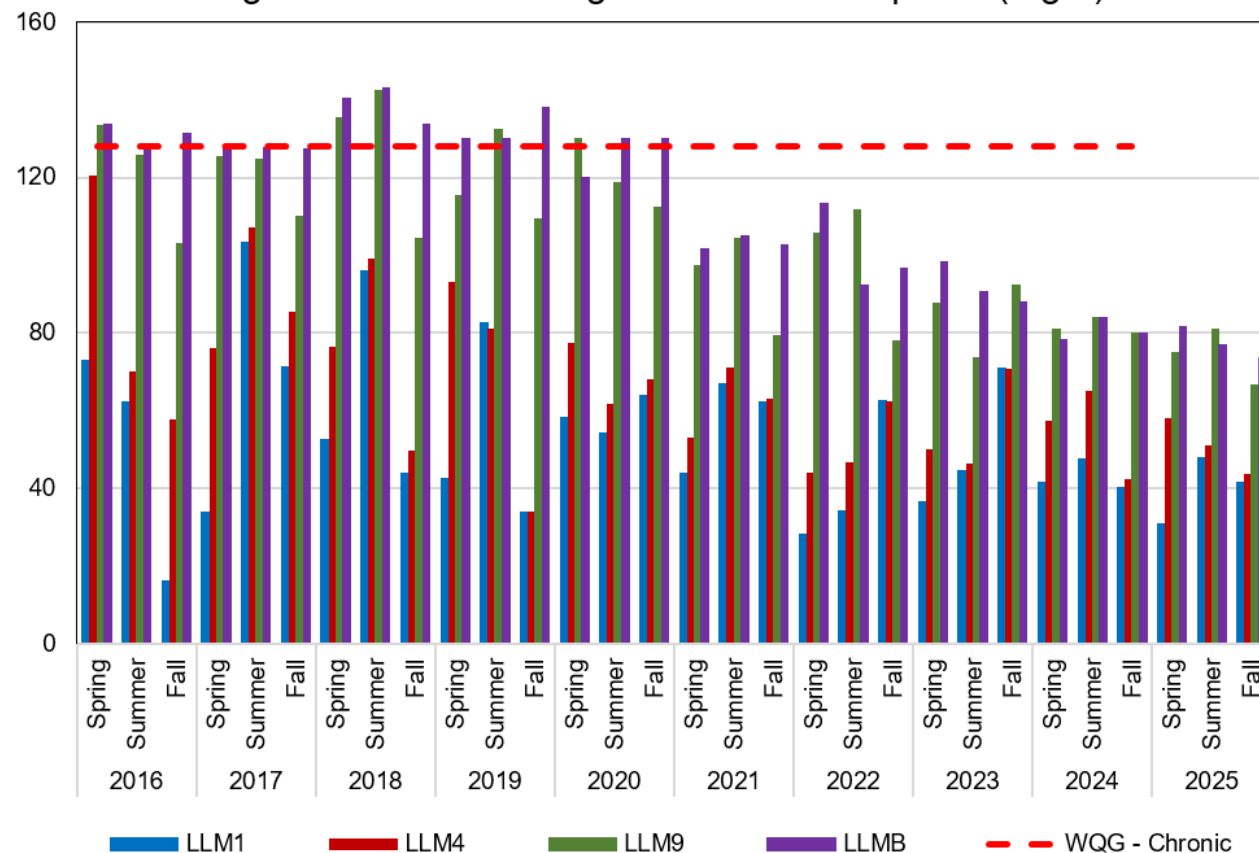
No Name Lake 5 in 30 Average - Dissolved Copper (mg/L)



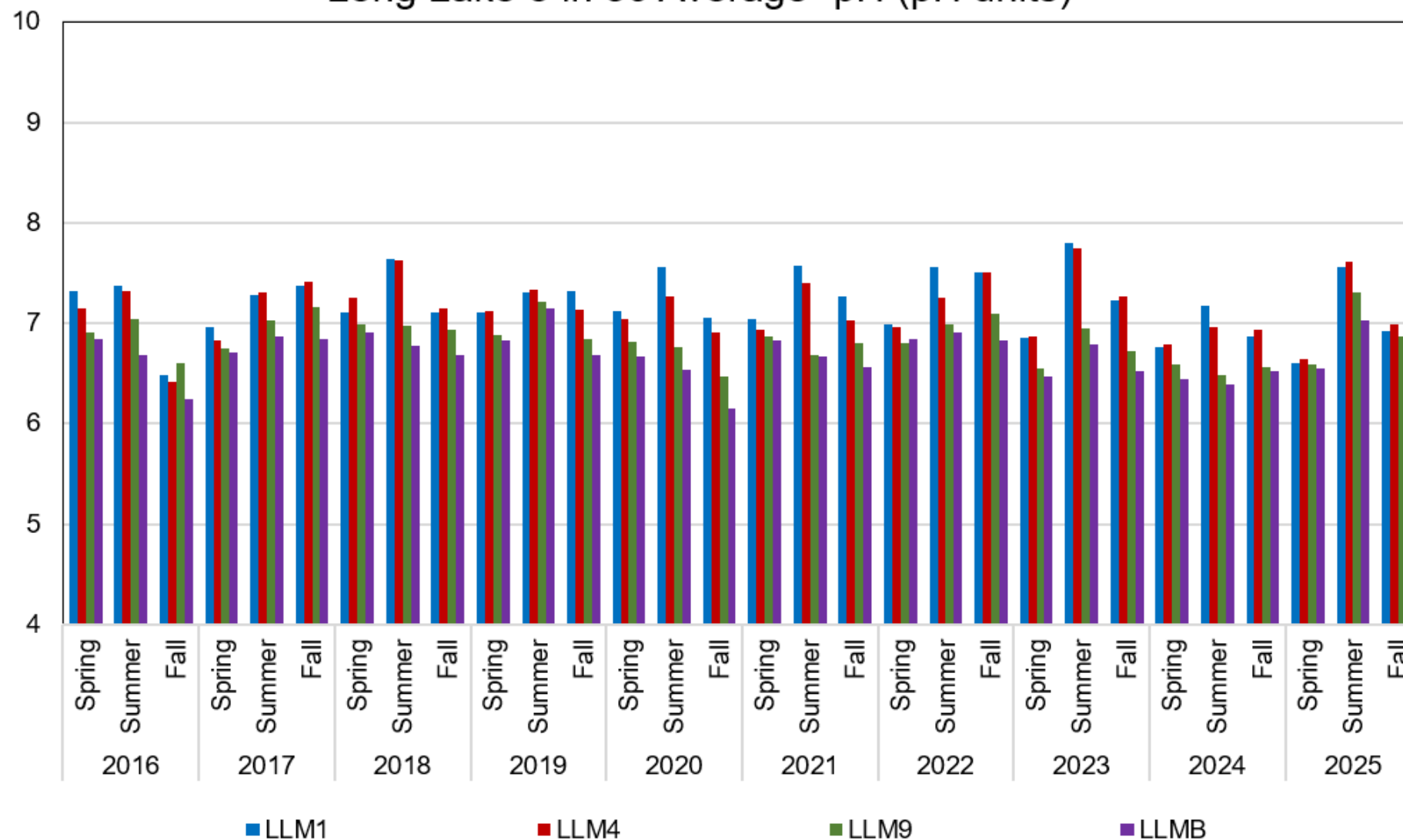
Long Lake 5 in 30 Average - Hardness as CaCO_3 (mg/L)

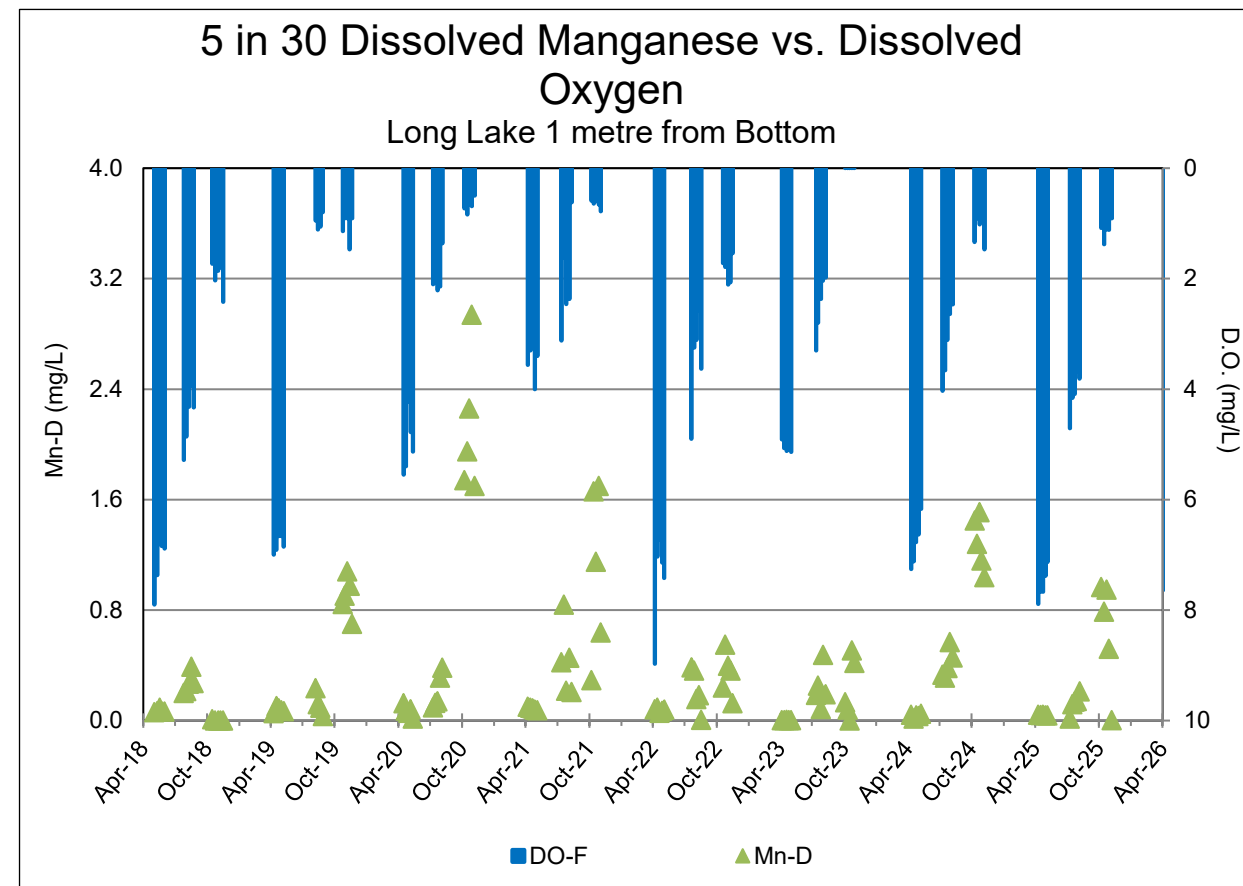
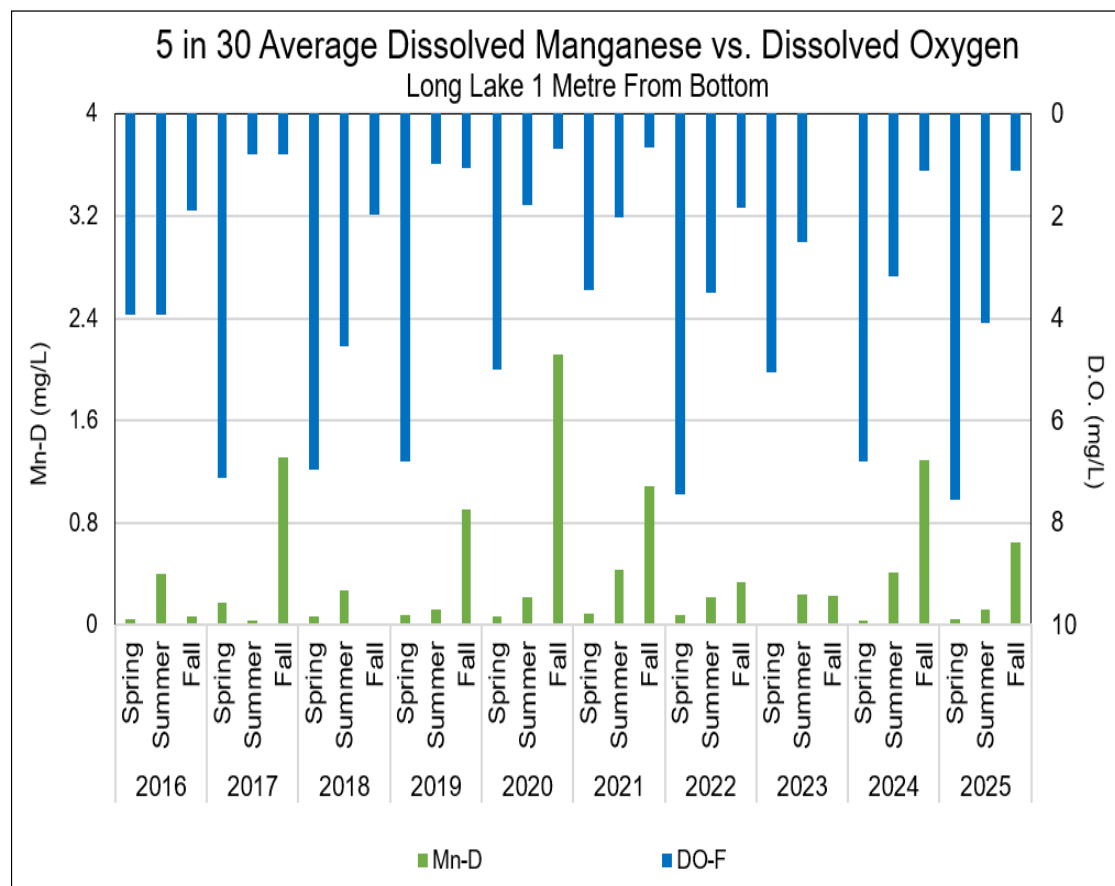


Long Lake 5 in 30 Average - Dissolved Sulphate (mg/L)

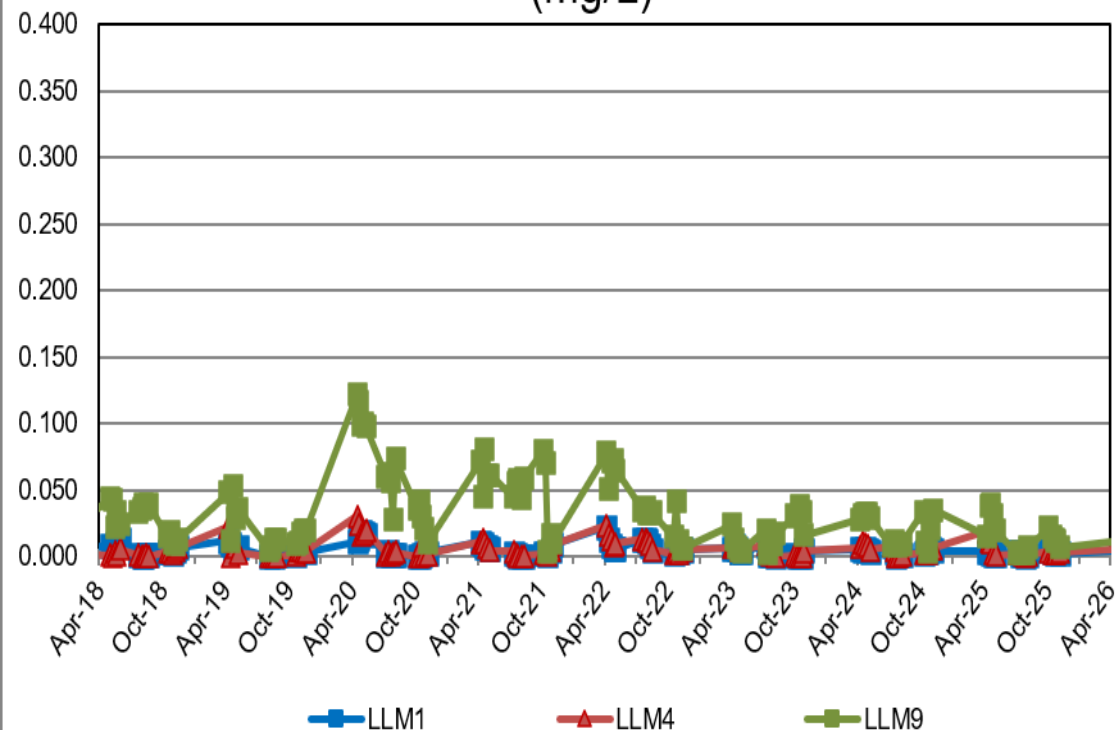


Long Lake 5 in 30 Average -pH (pH units)

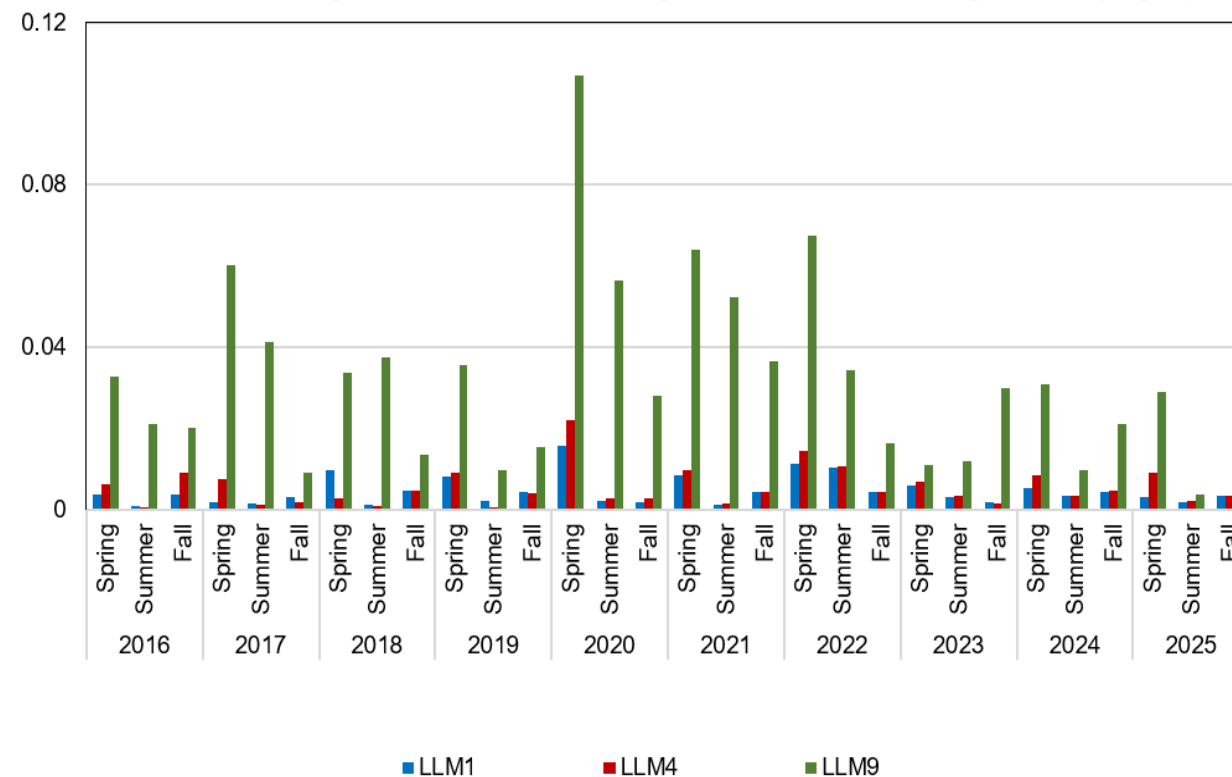




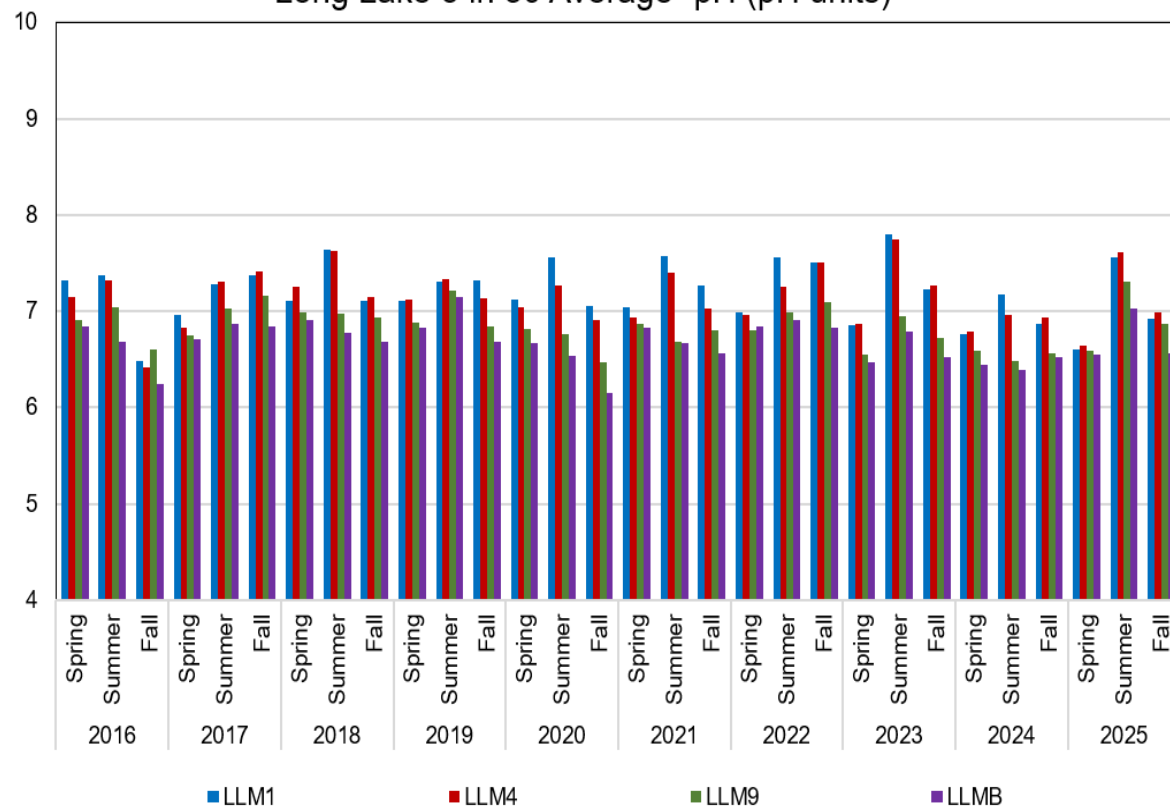
Long Lake 5 in 30 - Manganese, Dissolved
(mg/L)



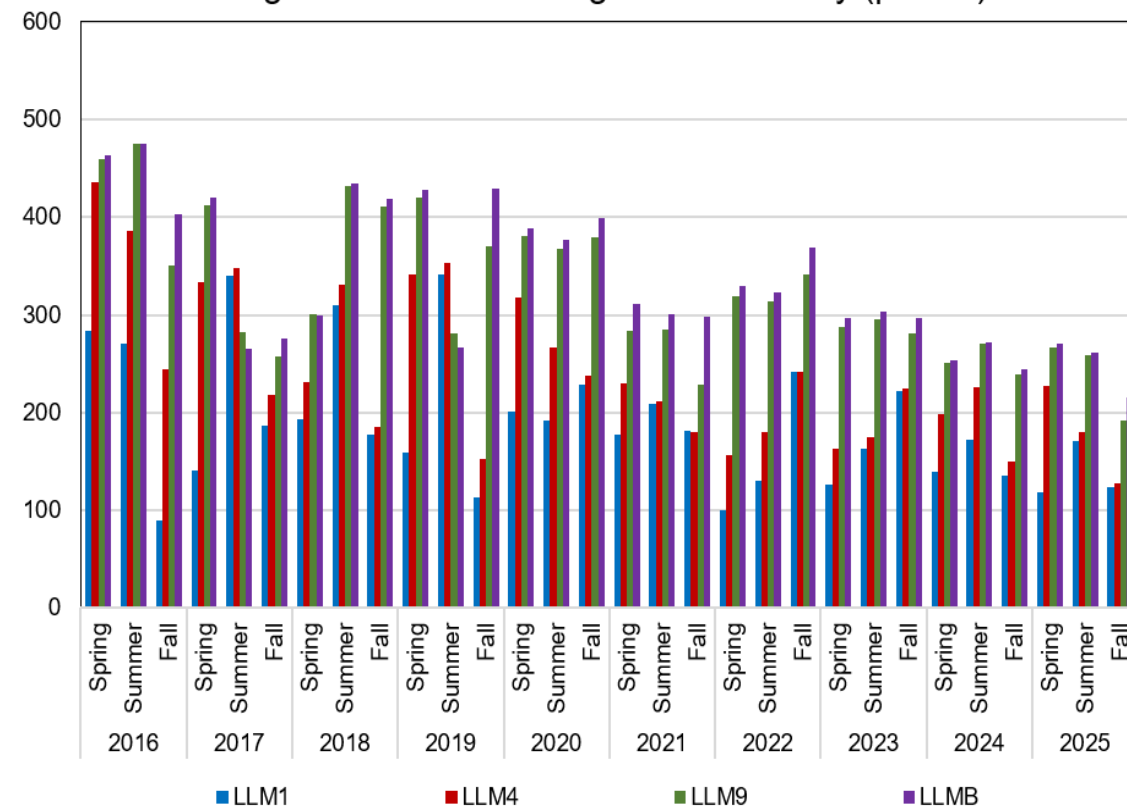
Long Lake 5 in 30 Average - Dissolved Manganese (mg/L)

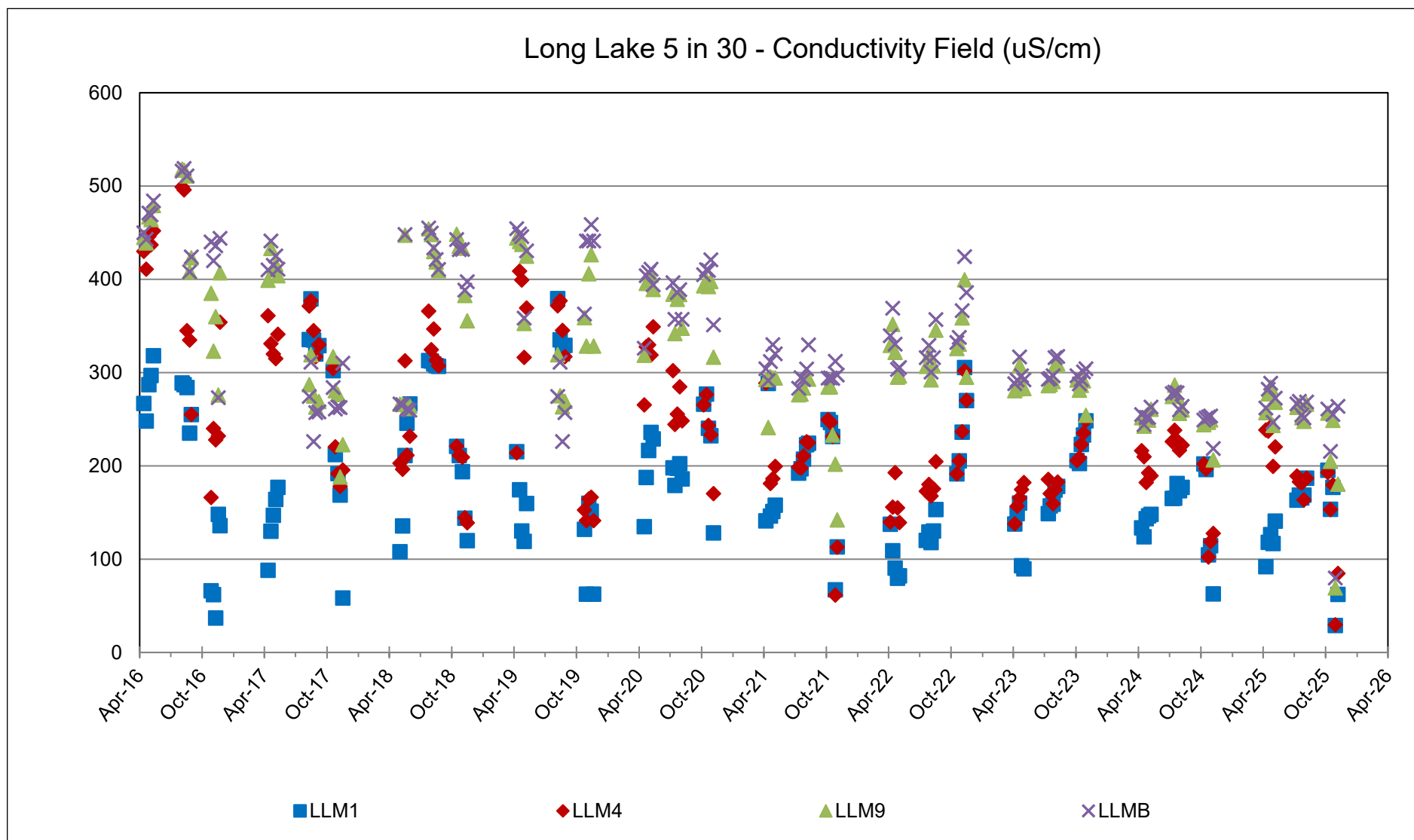


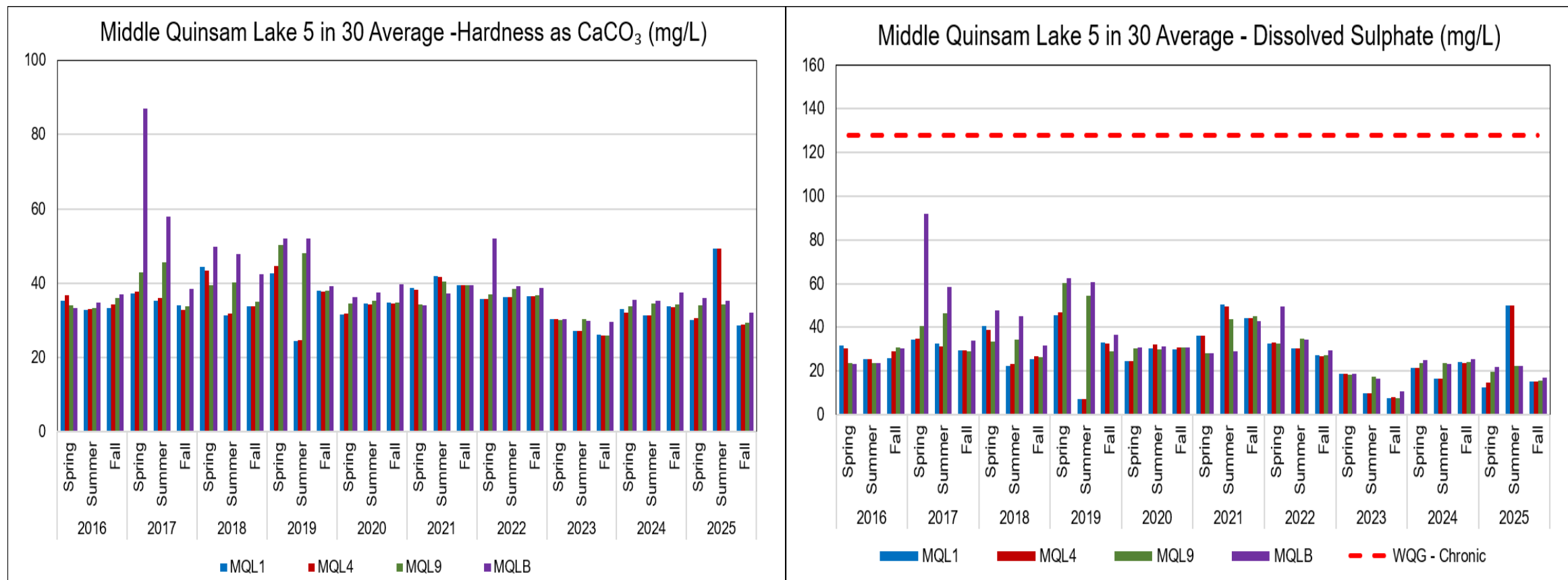
Long Lake 5 in 30 Average -pH (pH units)



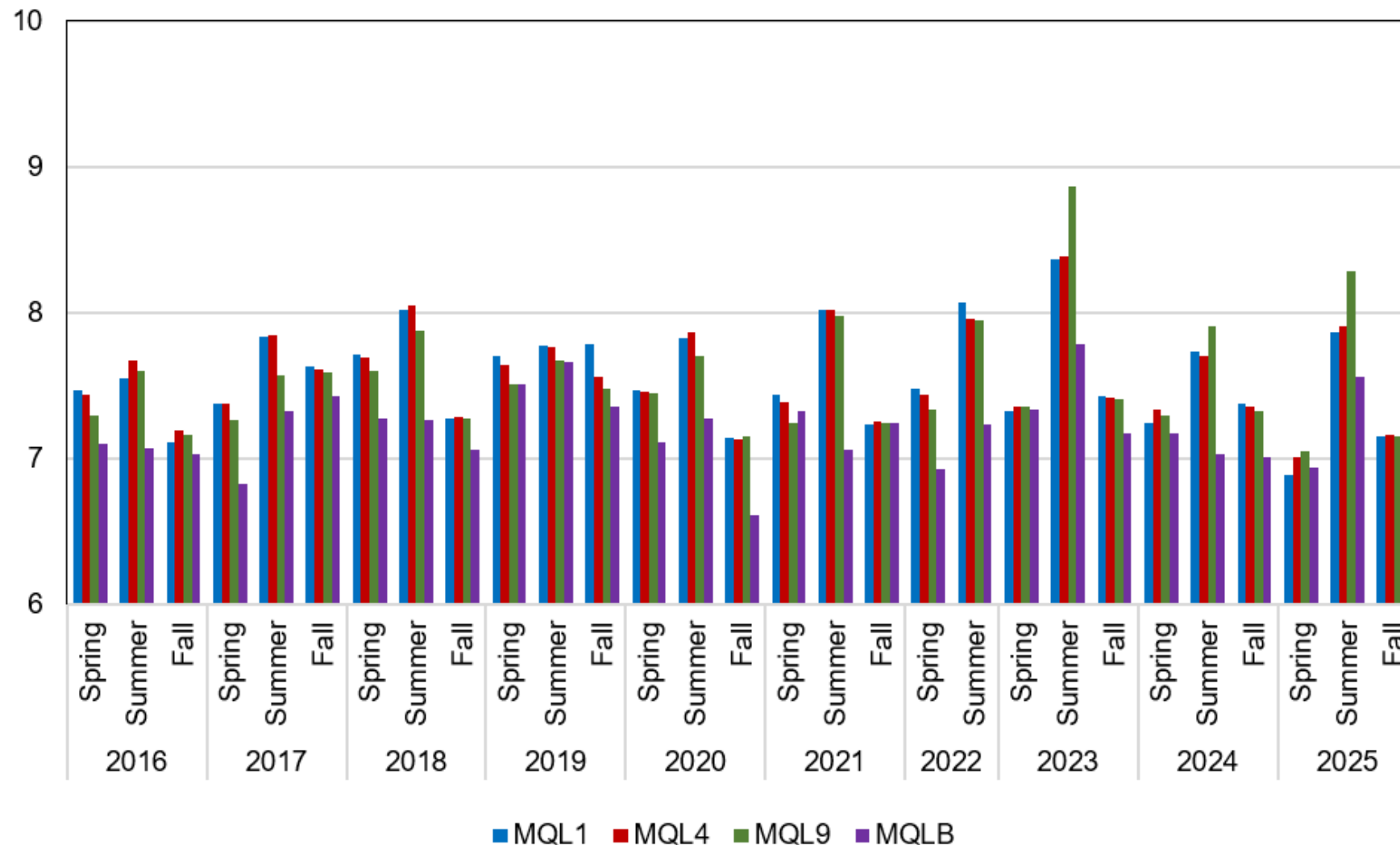
Long Lake 5 in 30 Average -Conductivity ($\mu\text{S}/\text{cm}$)

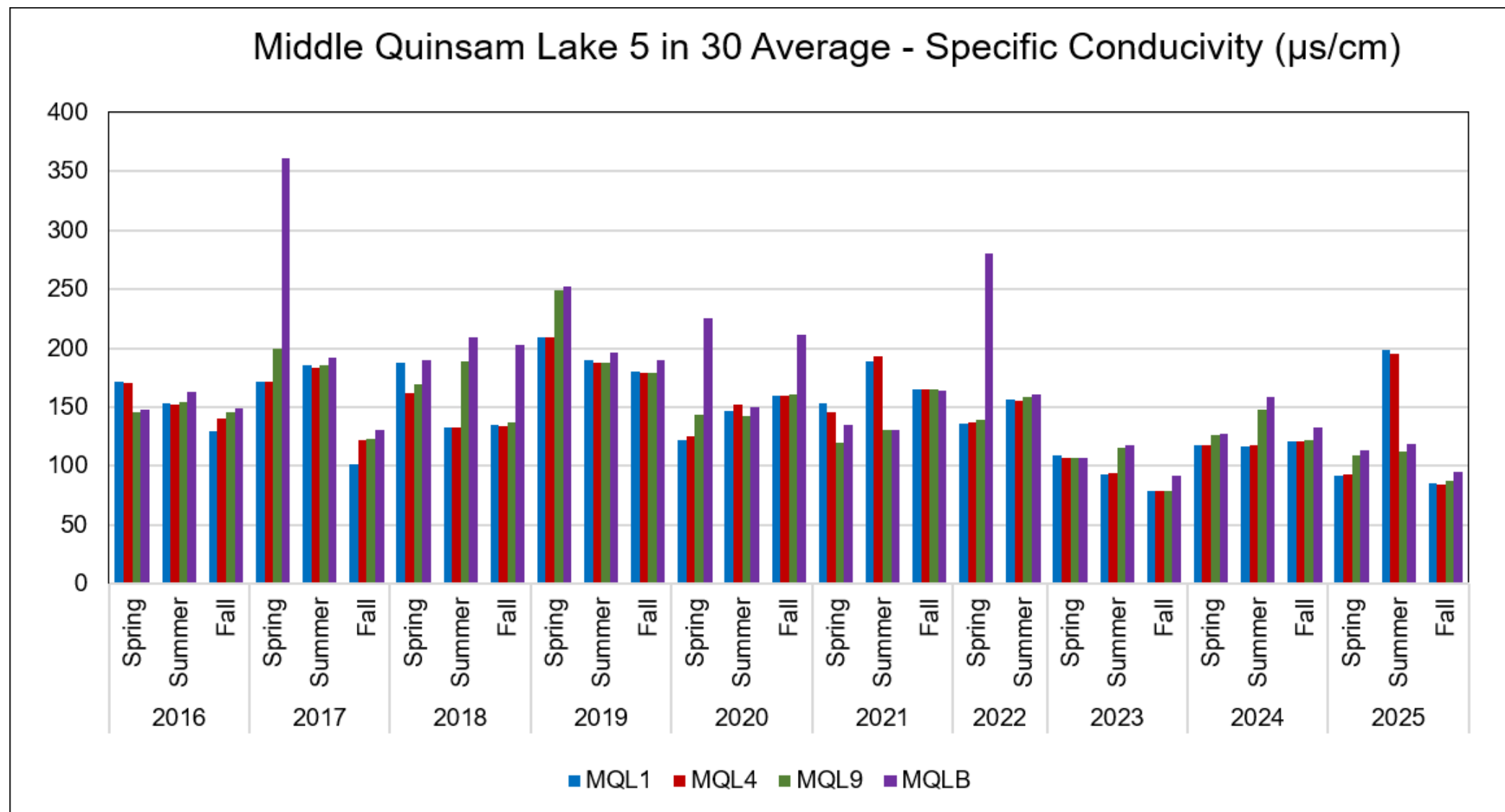




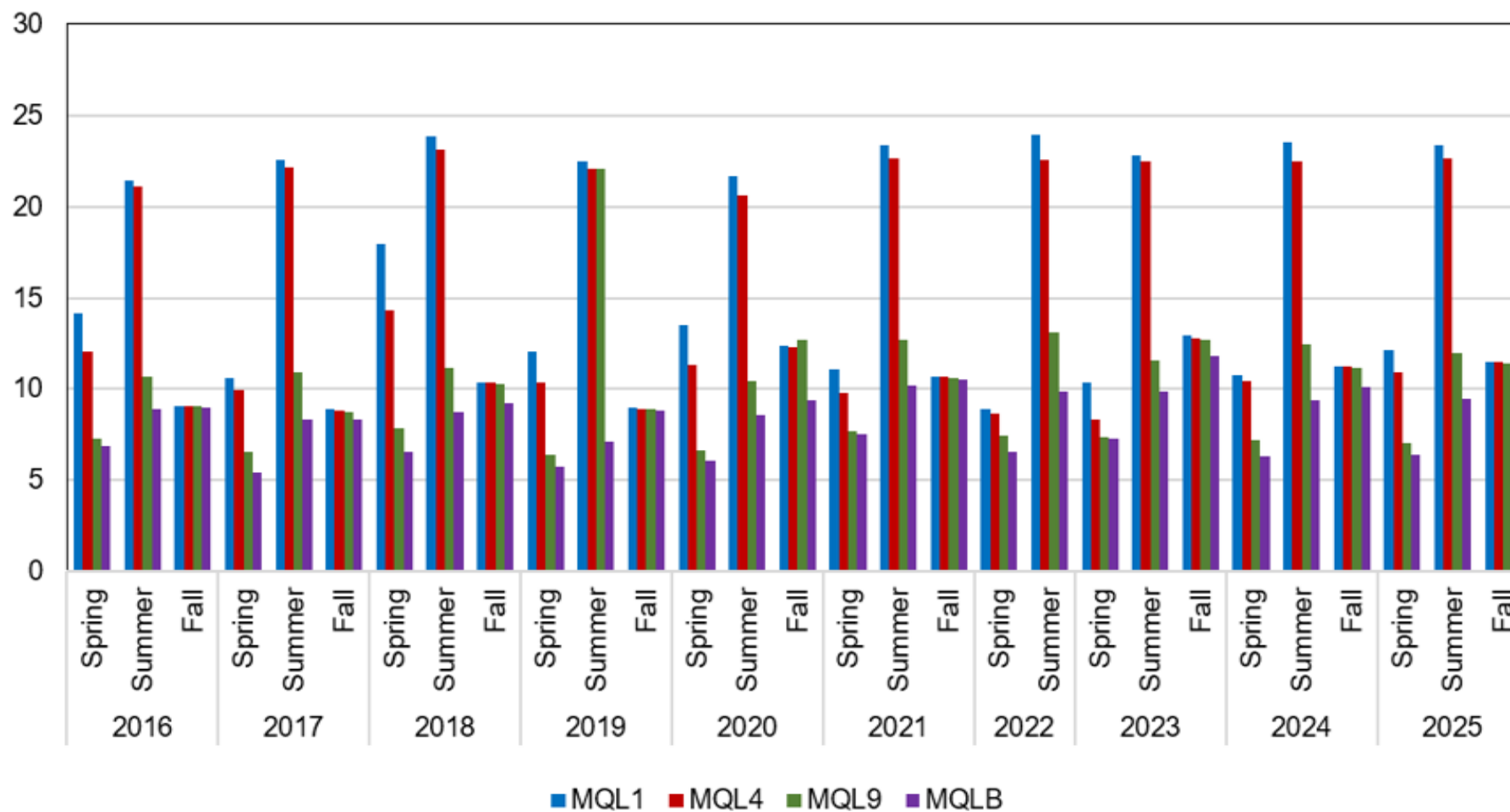


Middle Quinsam Lake 5 in 30 Average -pH (pH units)

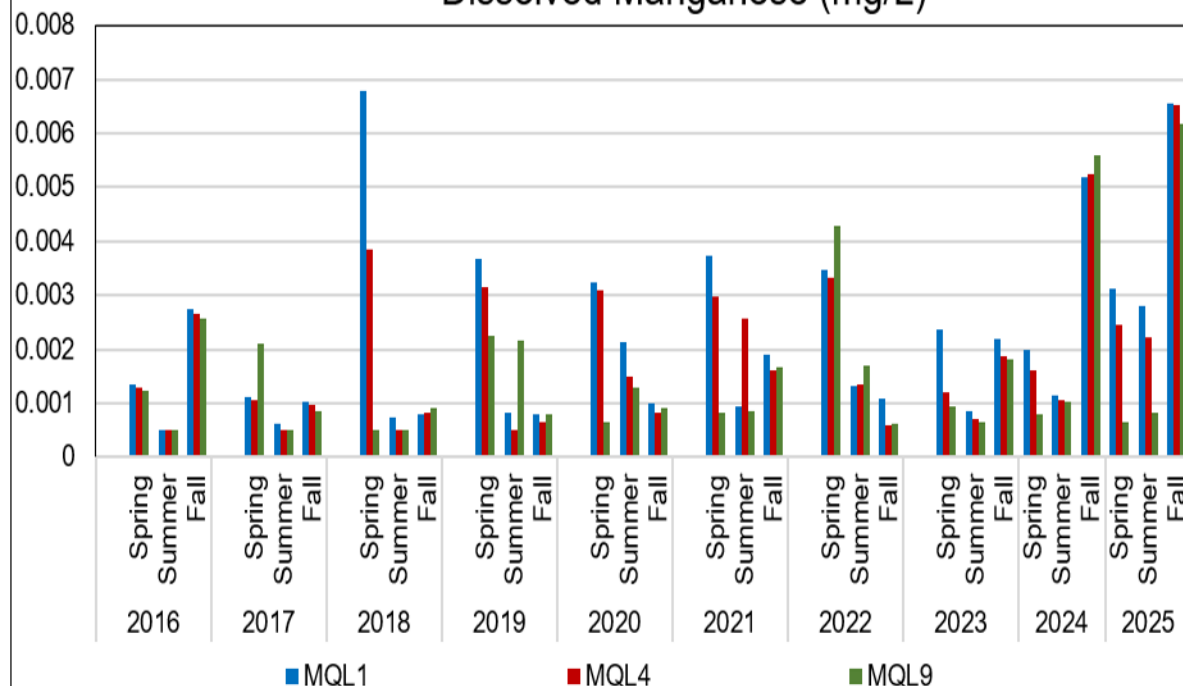




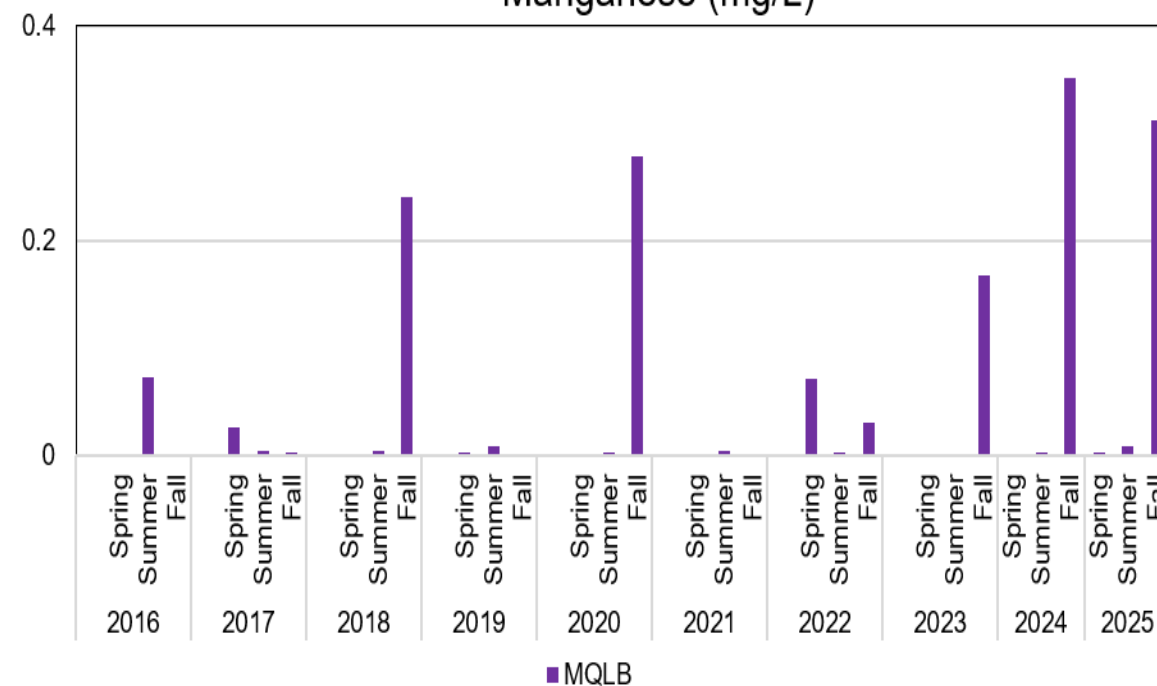
Middle Quinsam Lake 5 in 30 Average - Temperature (° Celsius)

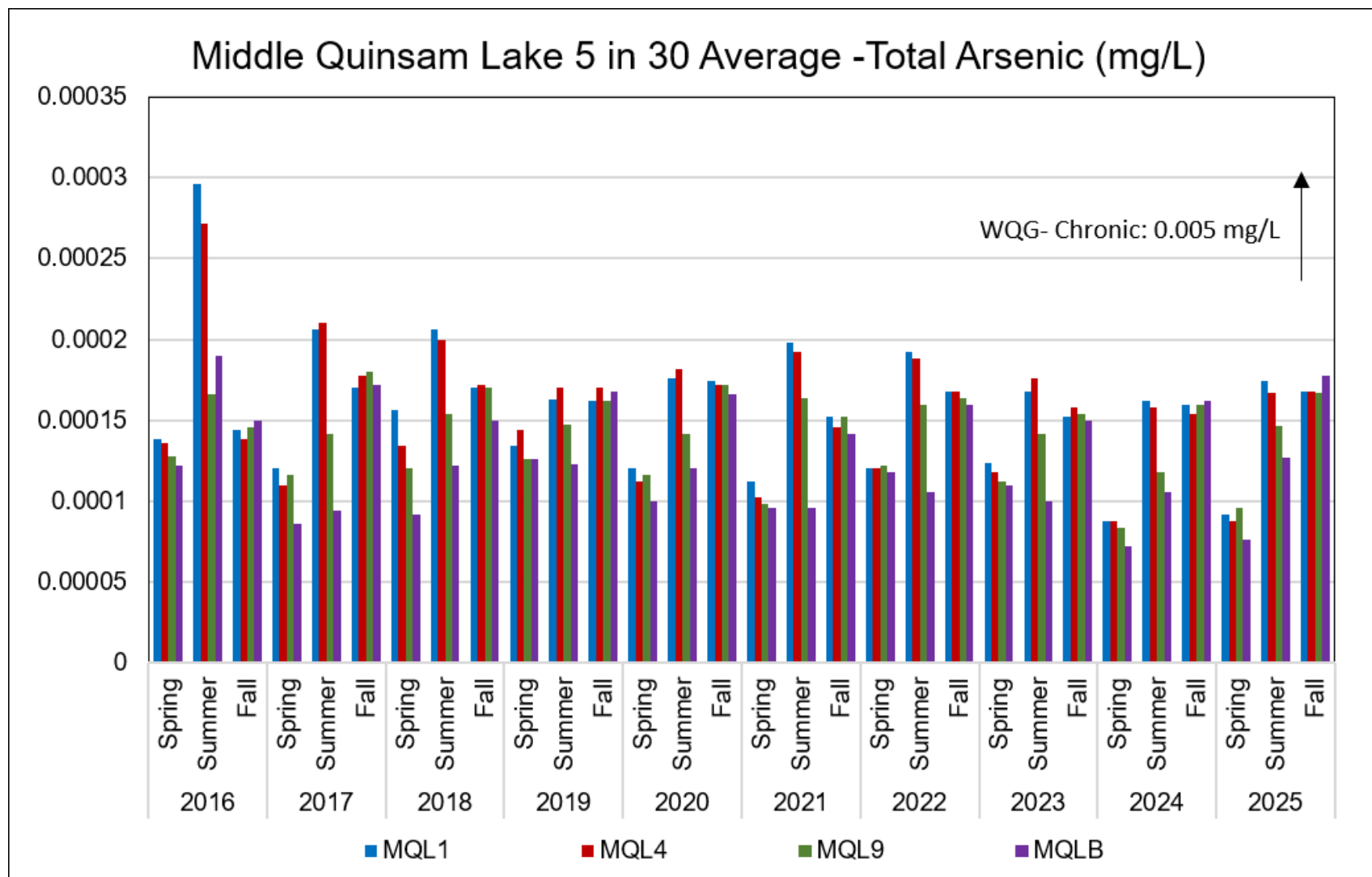


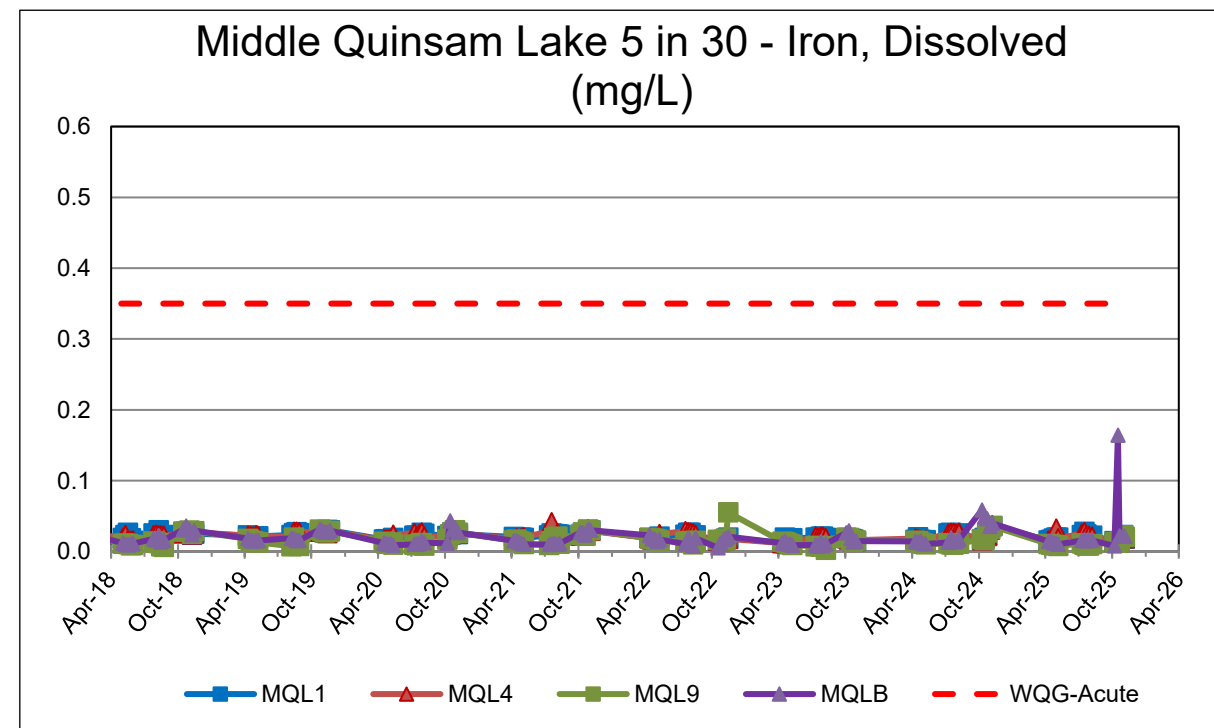
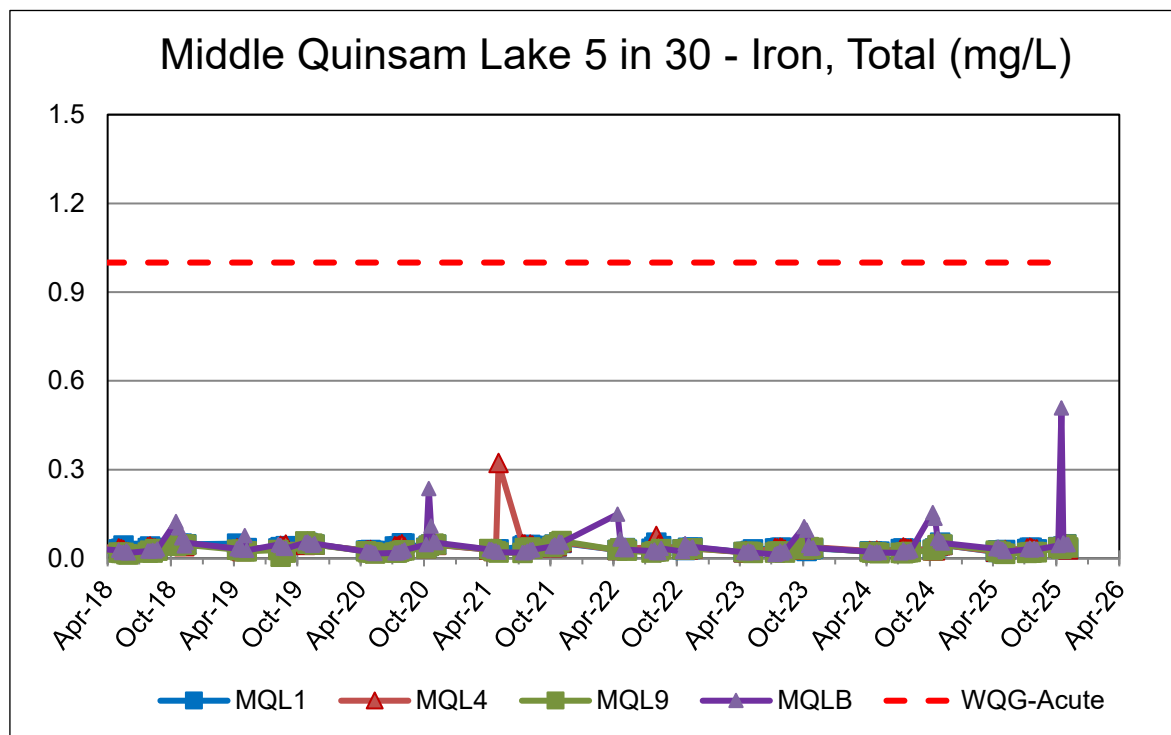
Middle Quinsam Lake 1m, 4m and 9m, 5 in 30 Average -
Dissolved Manganese (mg/L)

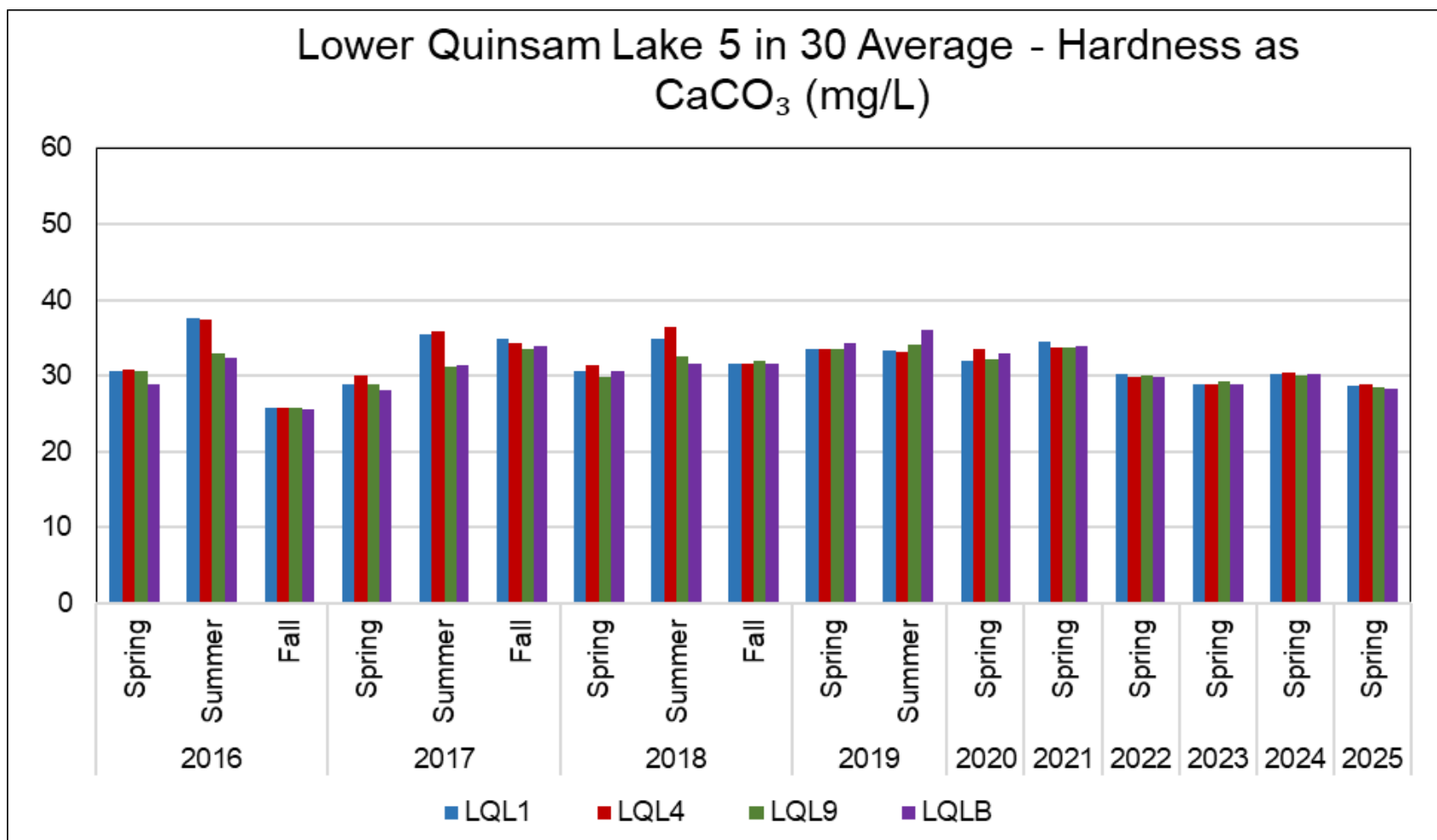


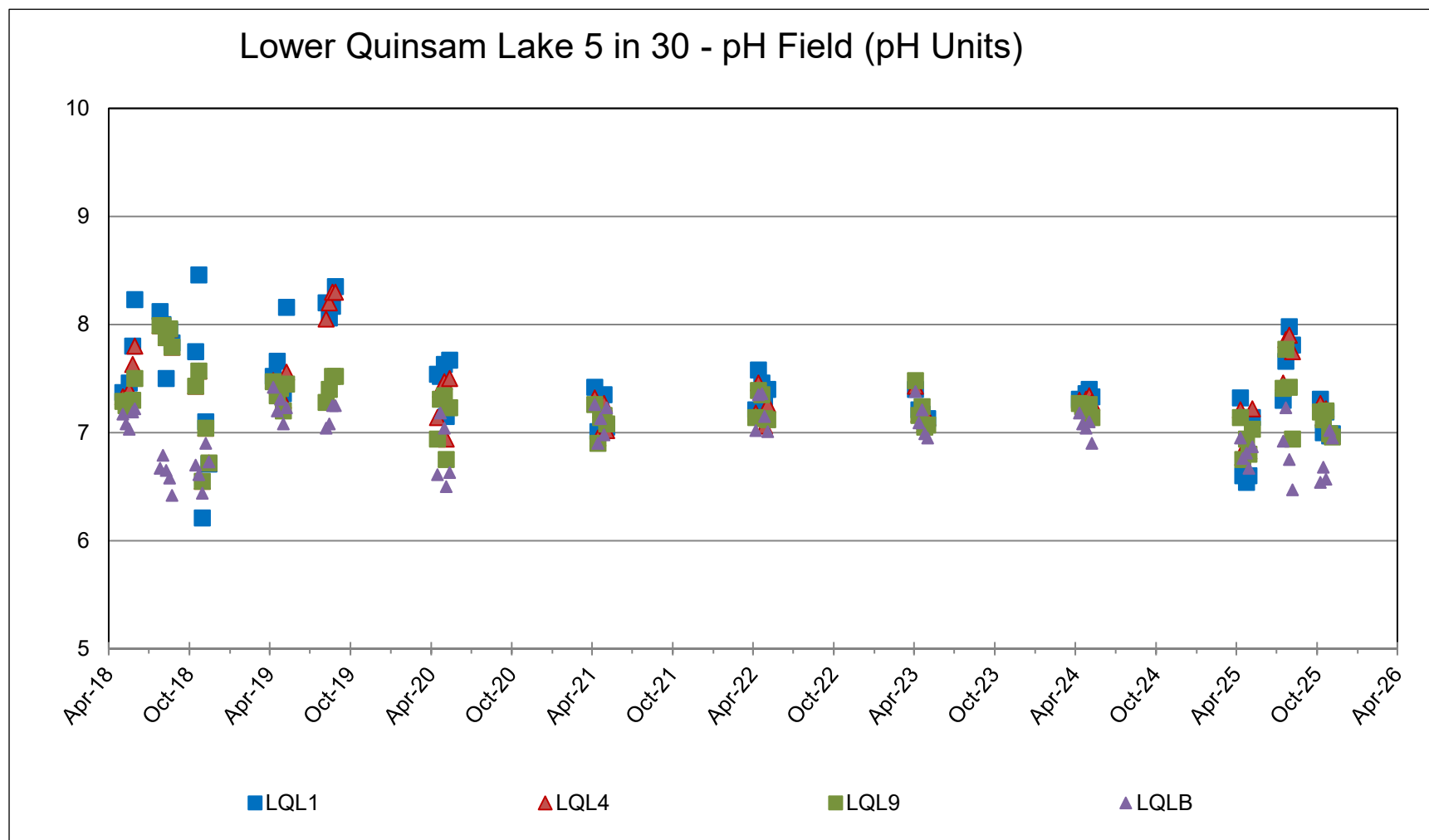
Middle Quinsam Lake 1MB, 5 in 30 Average - Dissolved
Manganese (mg/L)

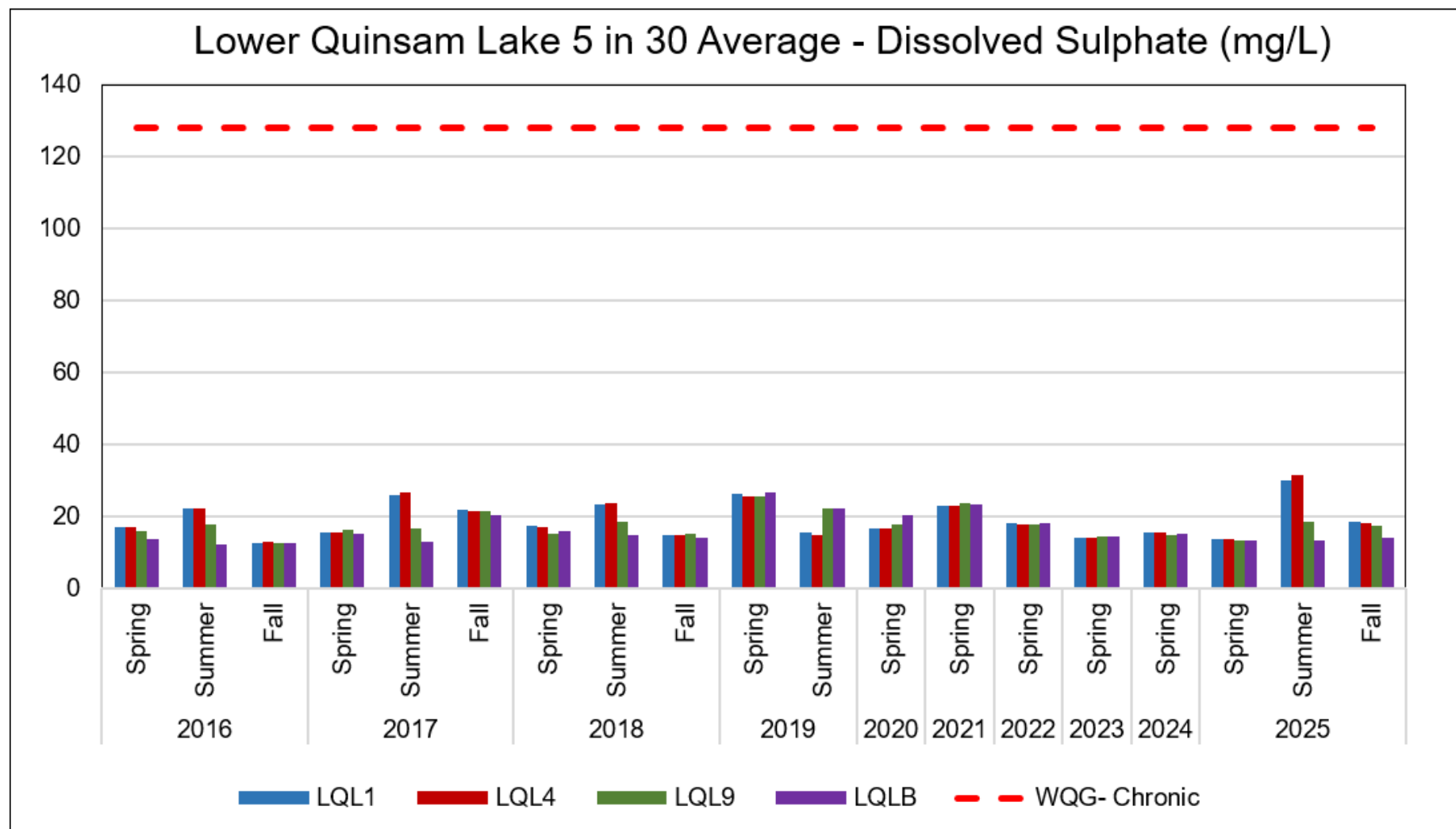




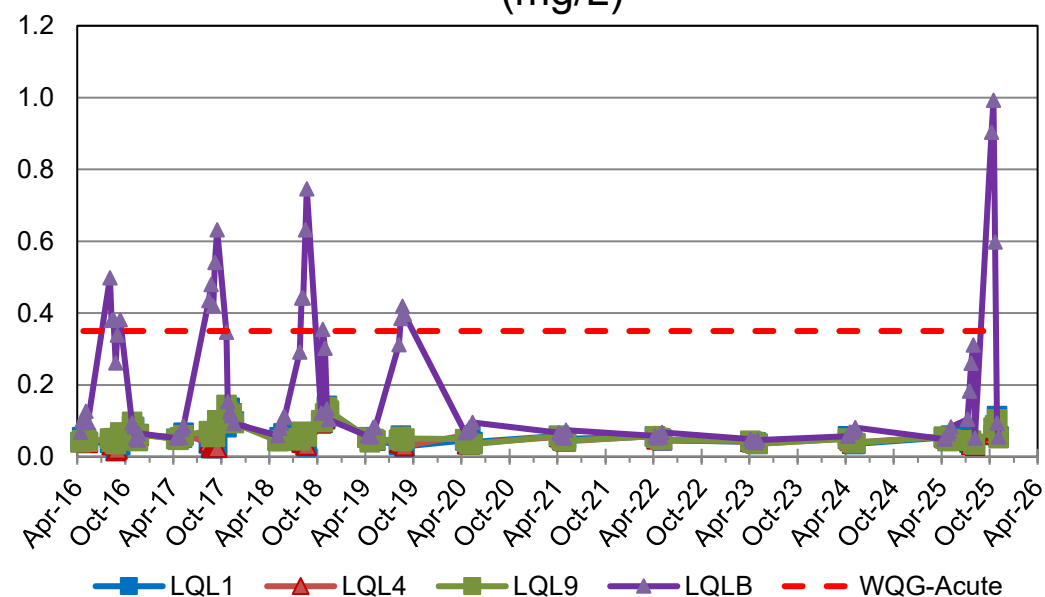




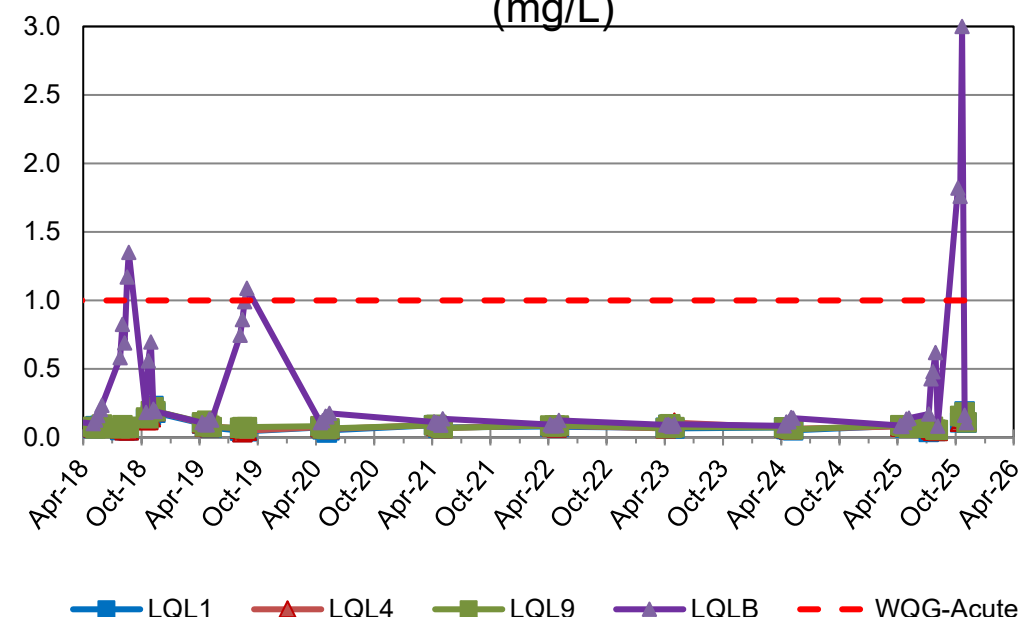


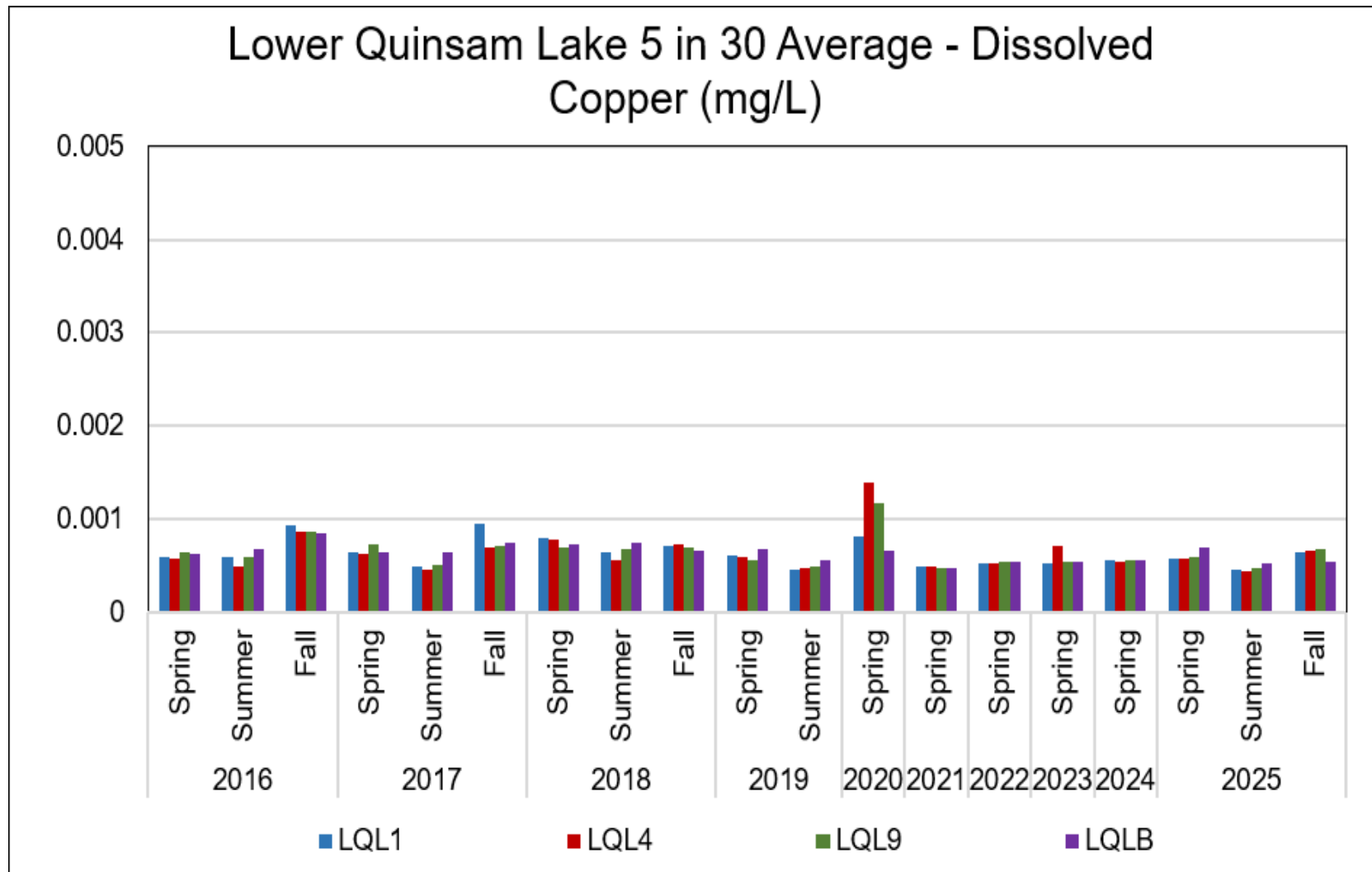


Lower Quinsam Lake 5 in 30 - Iron, Dissolved (mg/L)

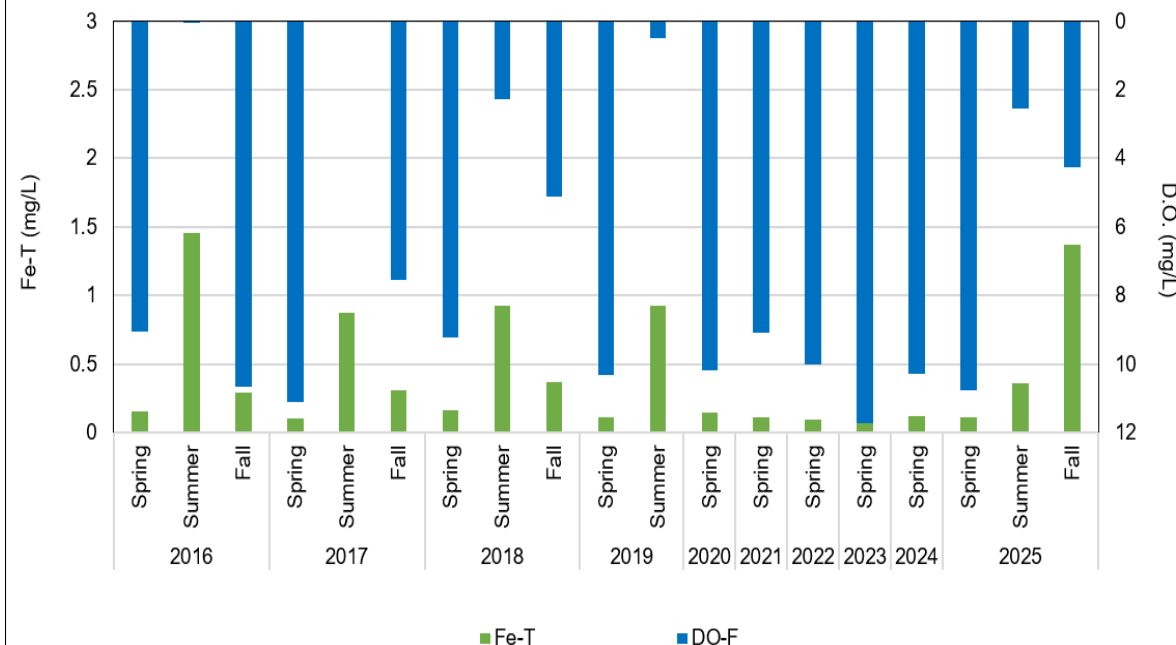


Lower Quinsam Lake 5 in 30 - Iron, Total (mg/L)

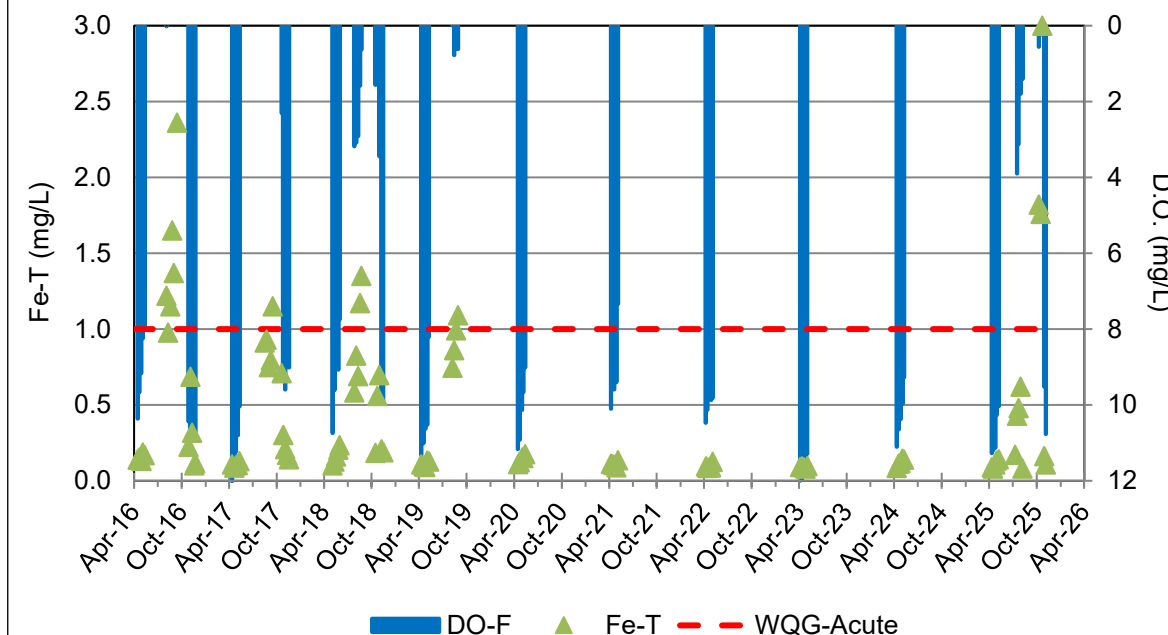


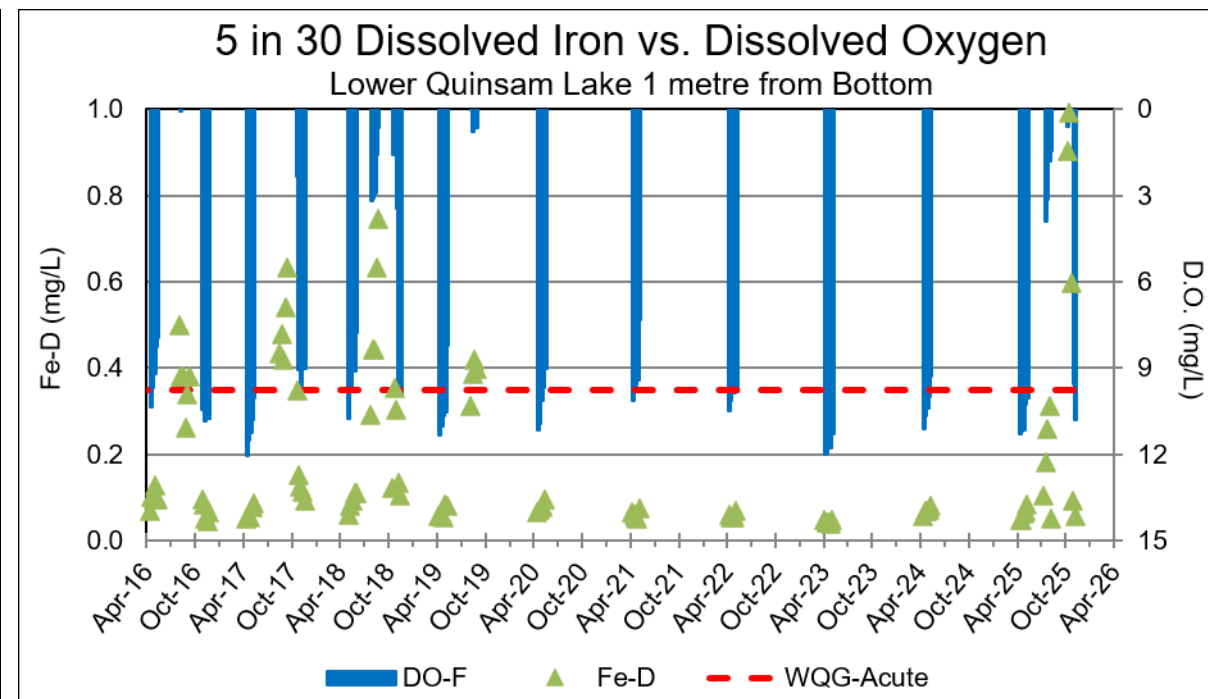
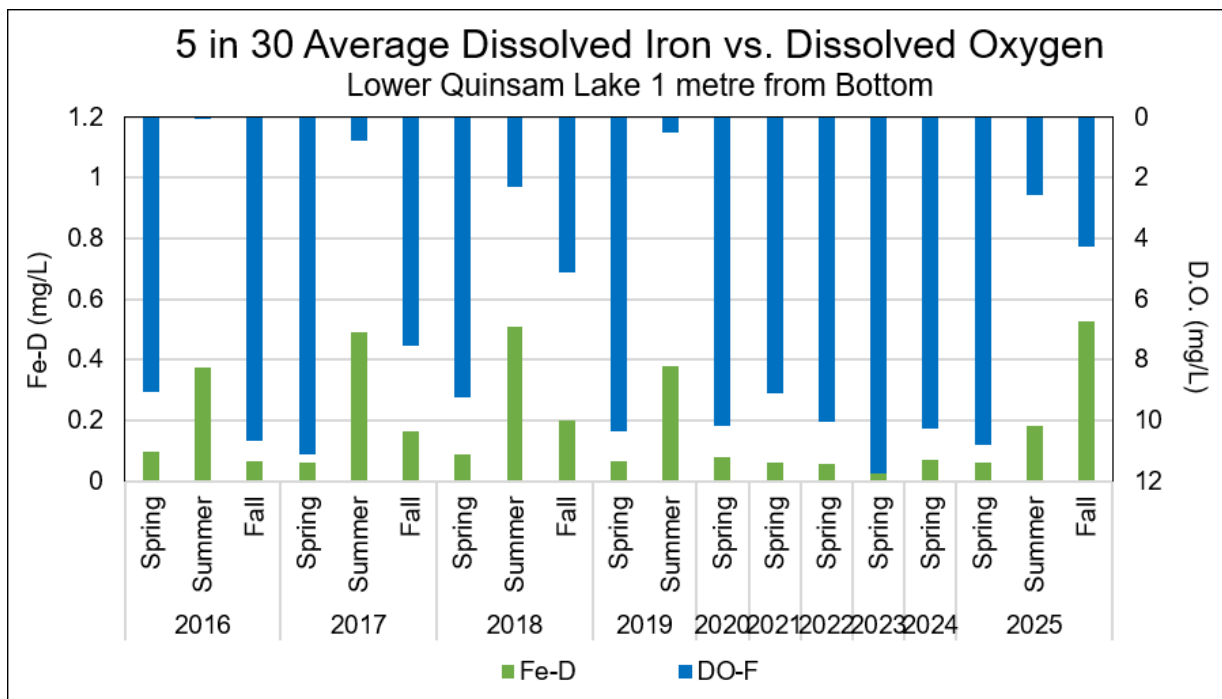


5 in 30 Average Total Iron vs. Dissolved Oxygen
Lower Quinsam Lake 1 metre from Bottom

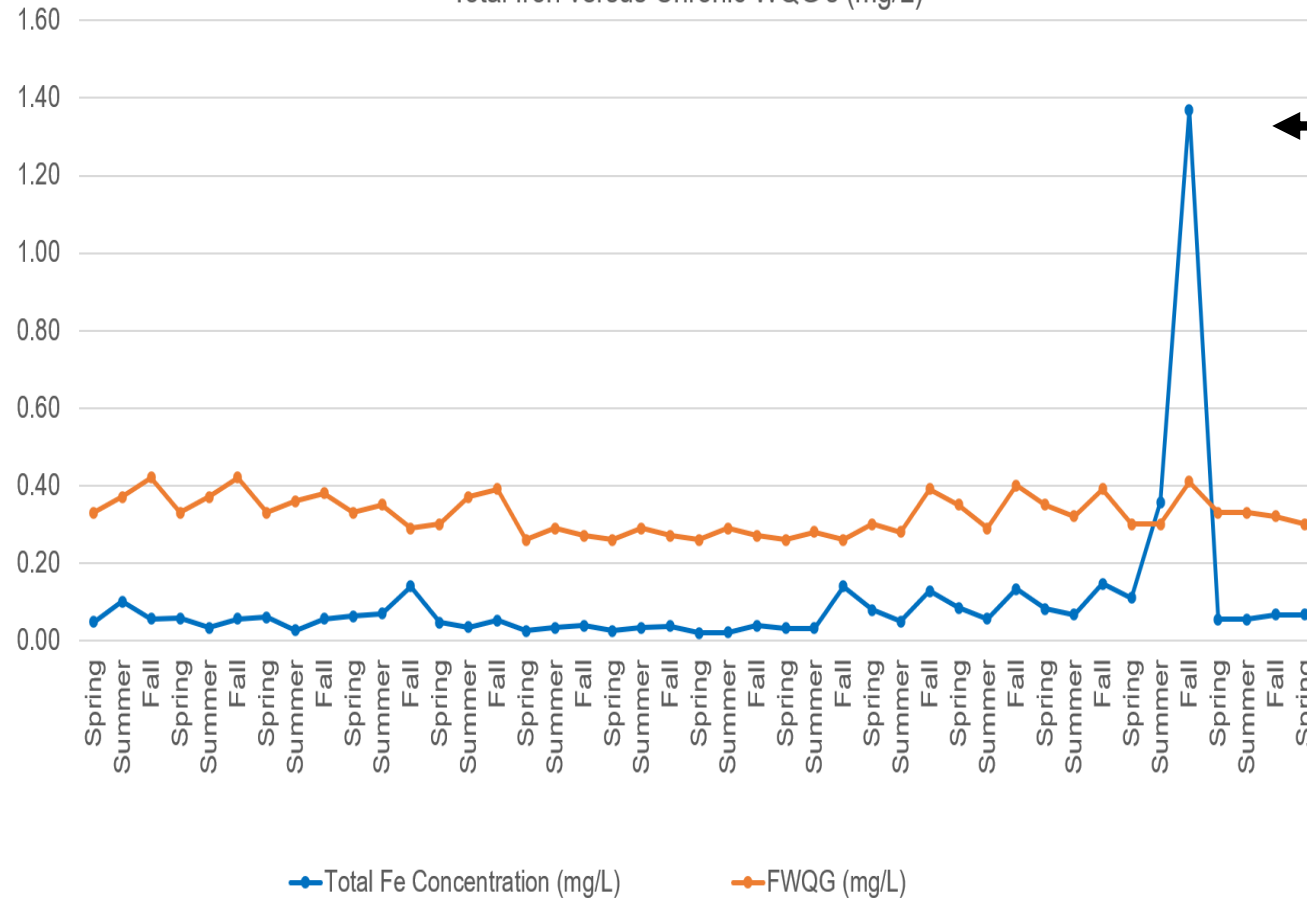


5 in 30 Total Iron vs. Dissolved Oxygen
Lower Quinsam Lake 1 metre from Bottom

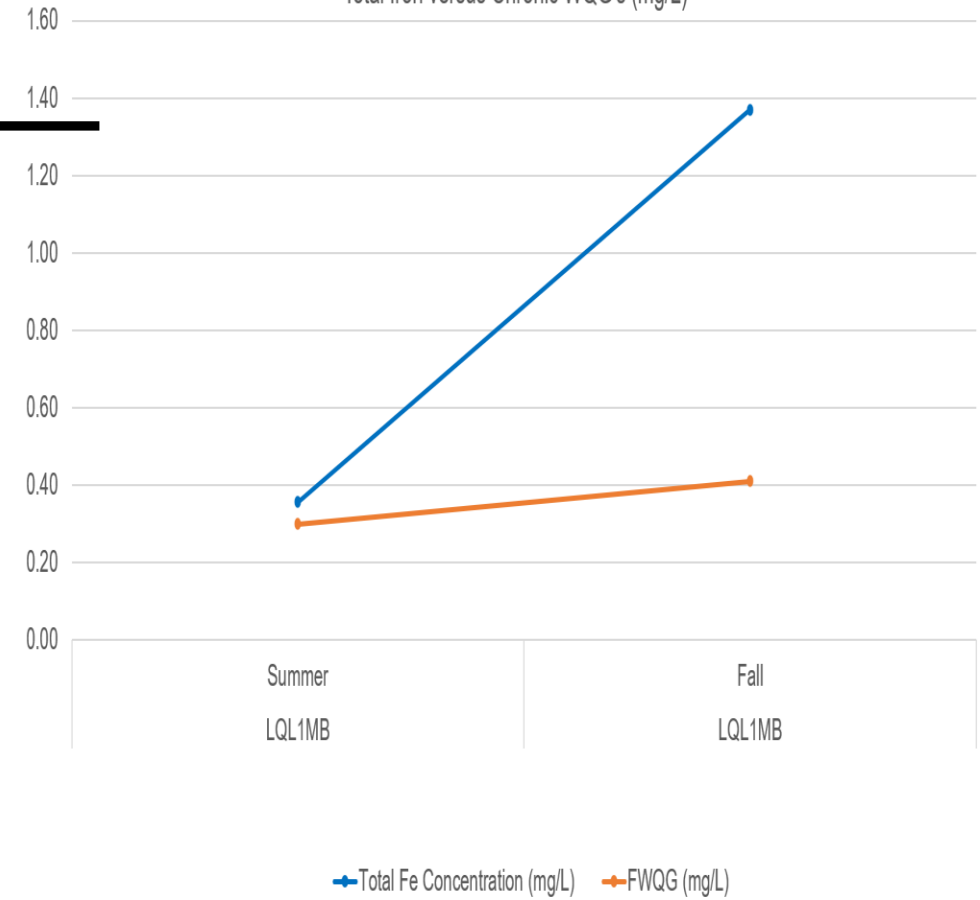


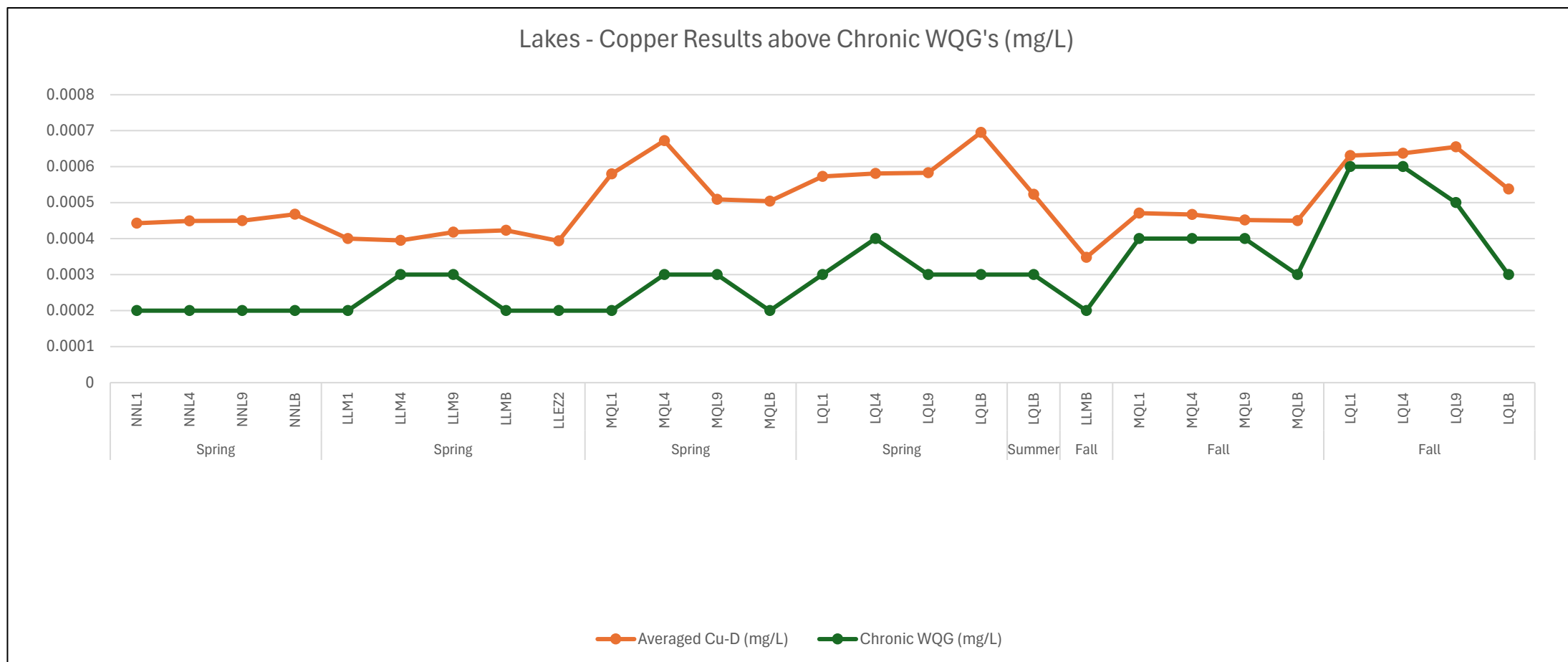


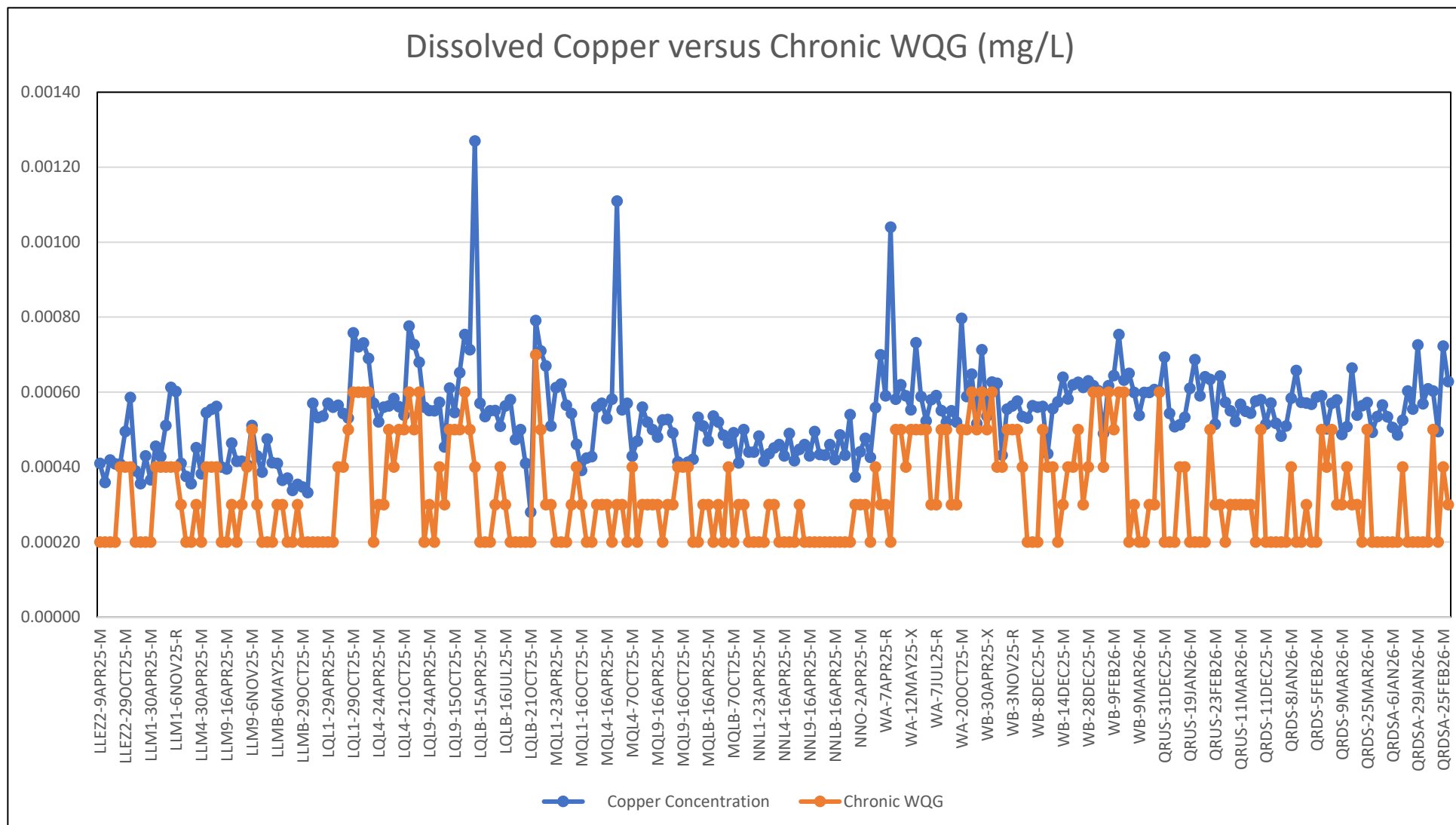
5 in 30 Average's Quiinsam Lakes
Total Iron versus Chronic WQG's (mg/L)

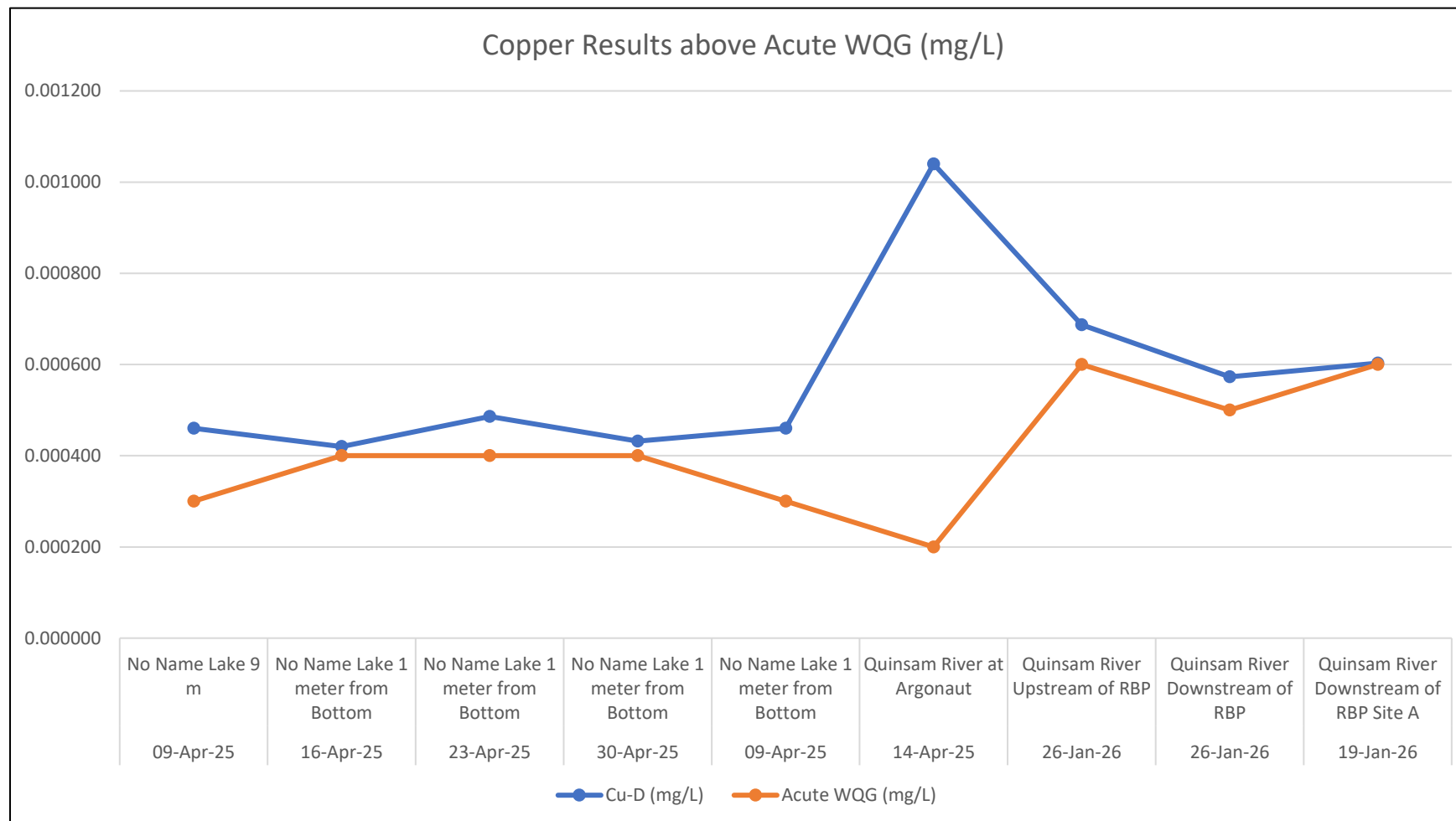


5 in 30 Average's Quiinsam Lakes
Total Iron versus Chronic WQG's (mg/L)

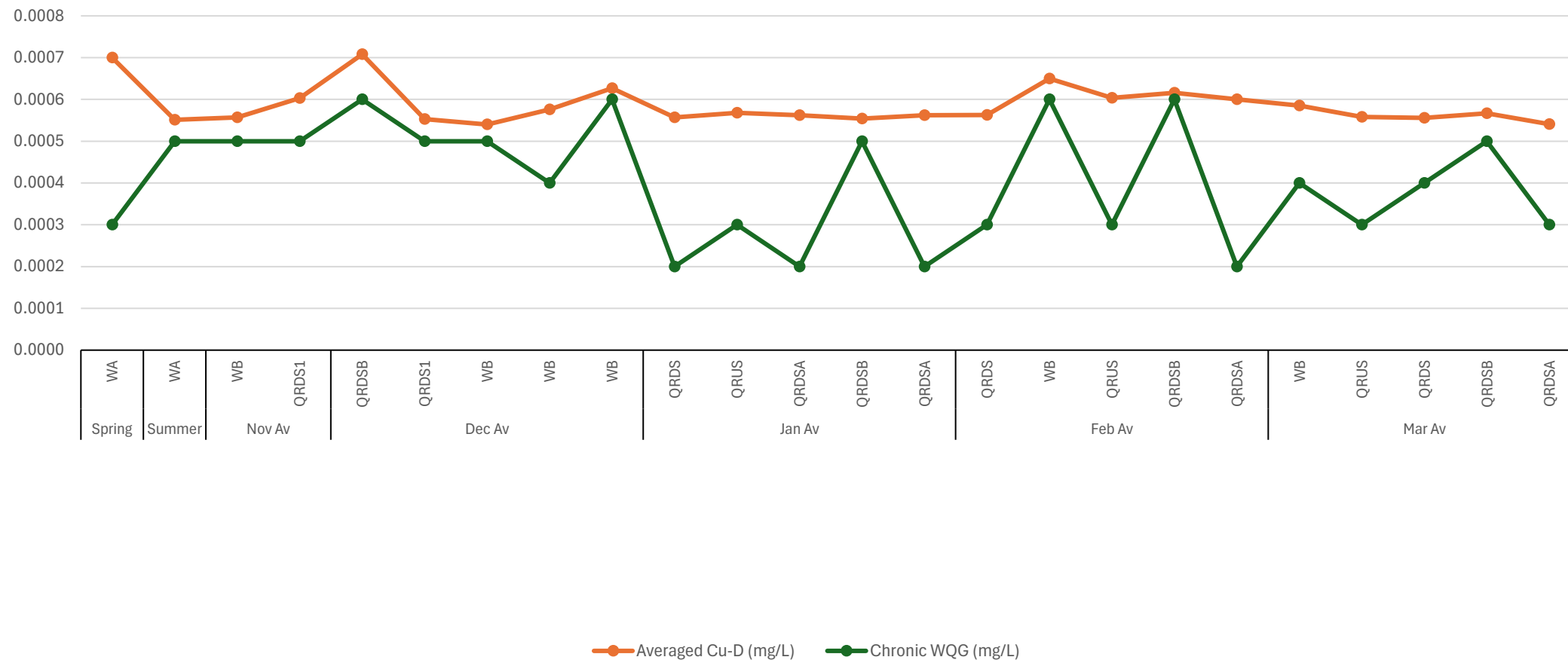


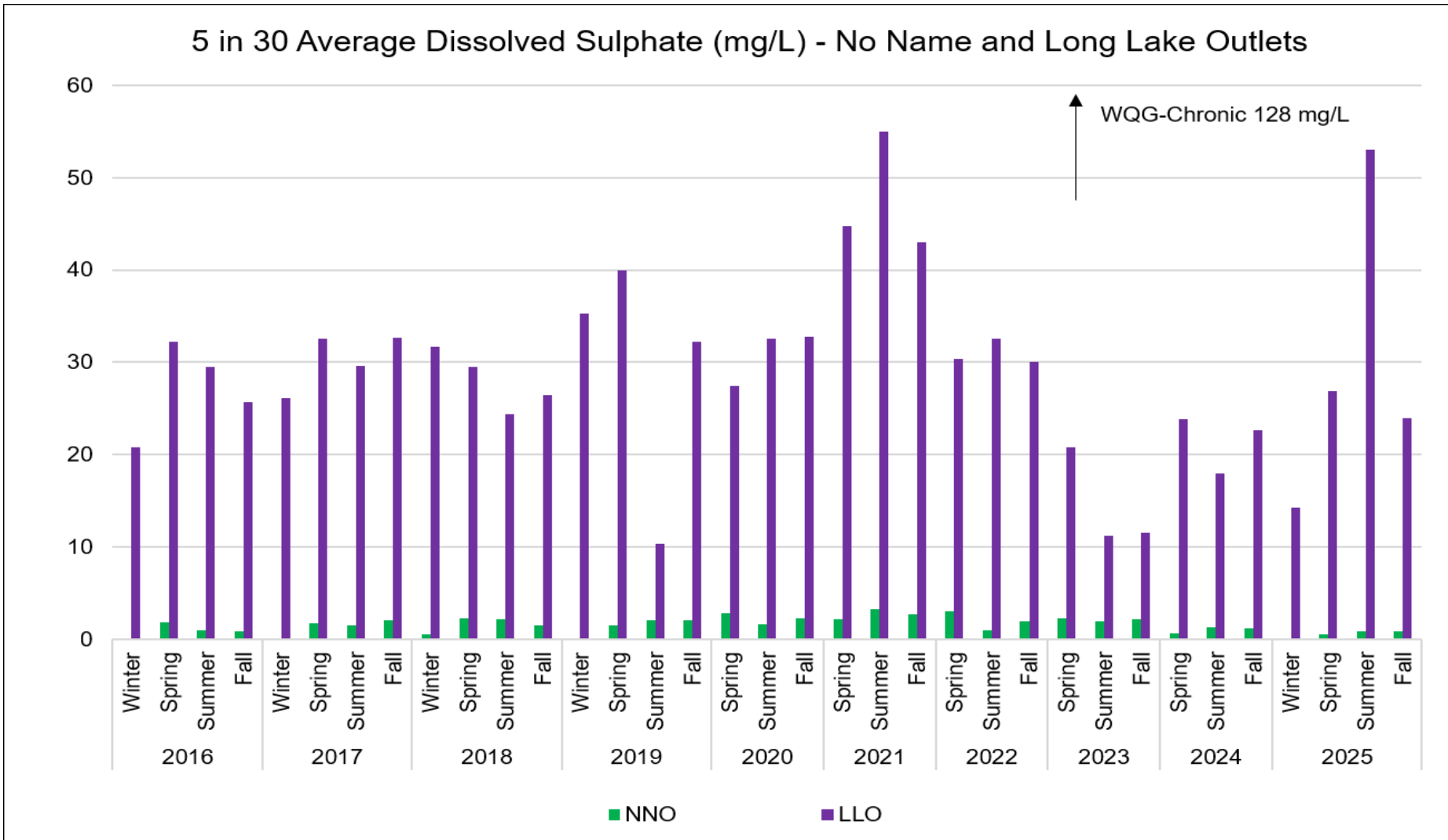




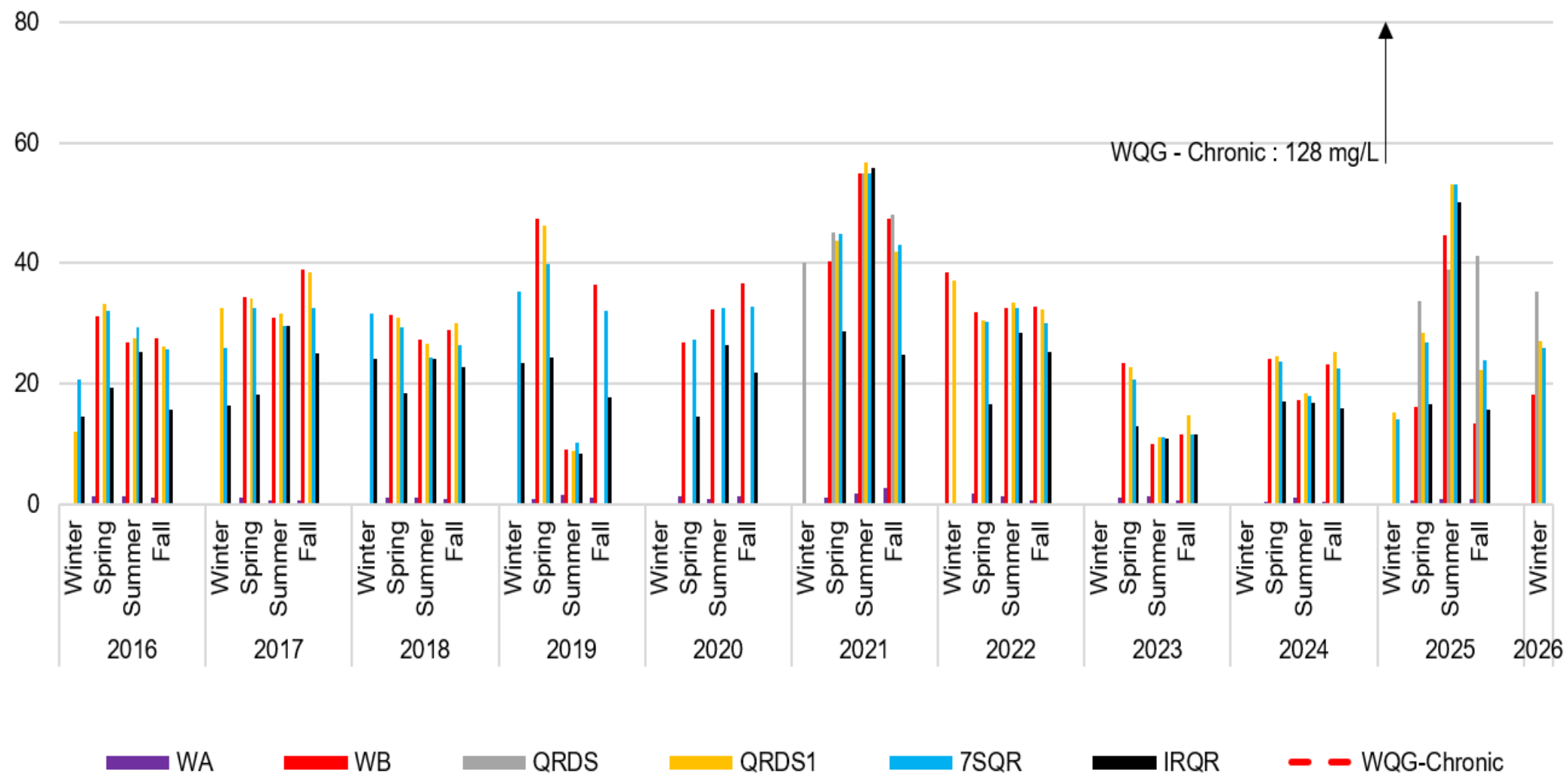


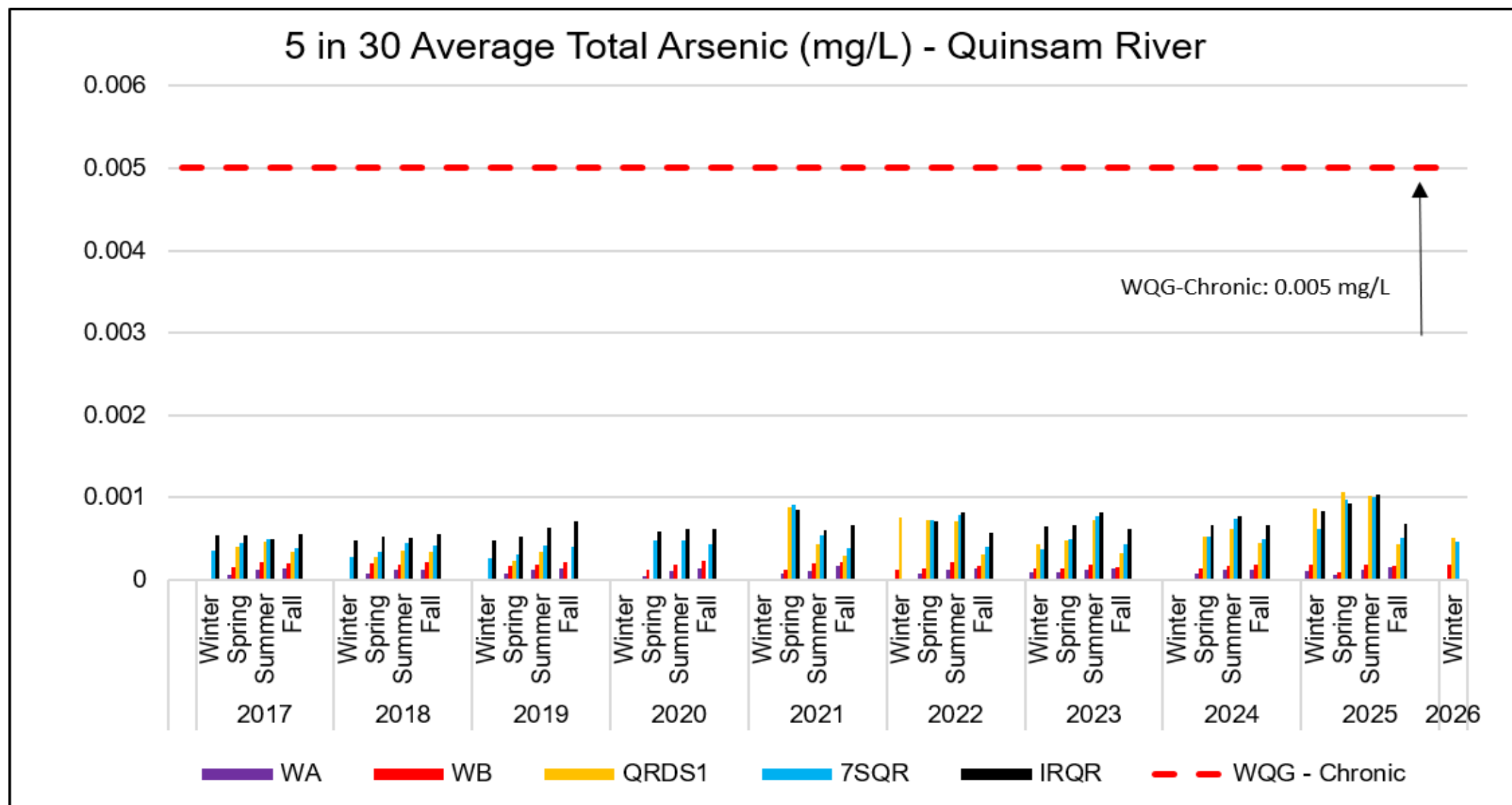
Rivers - Copper Results above Chronic WQG's (mg/L)

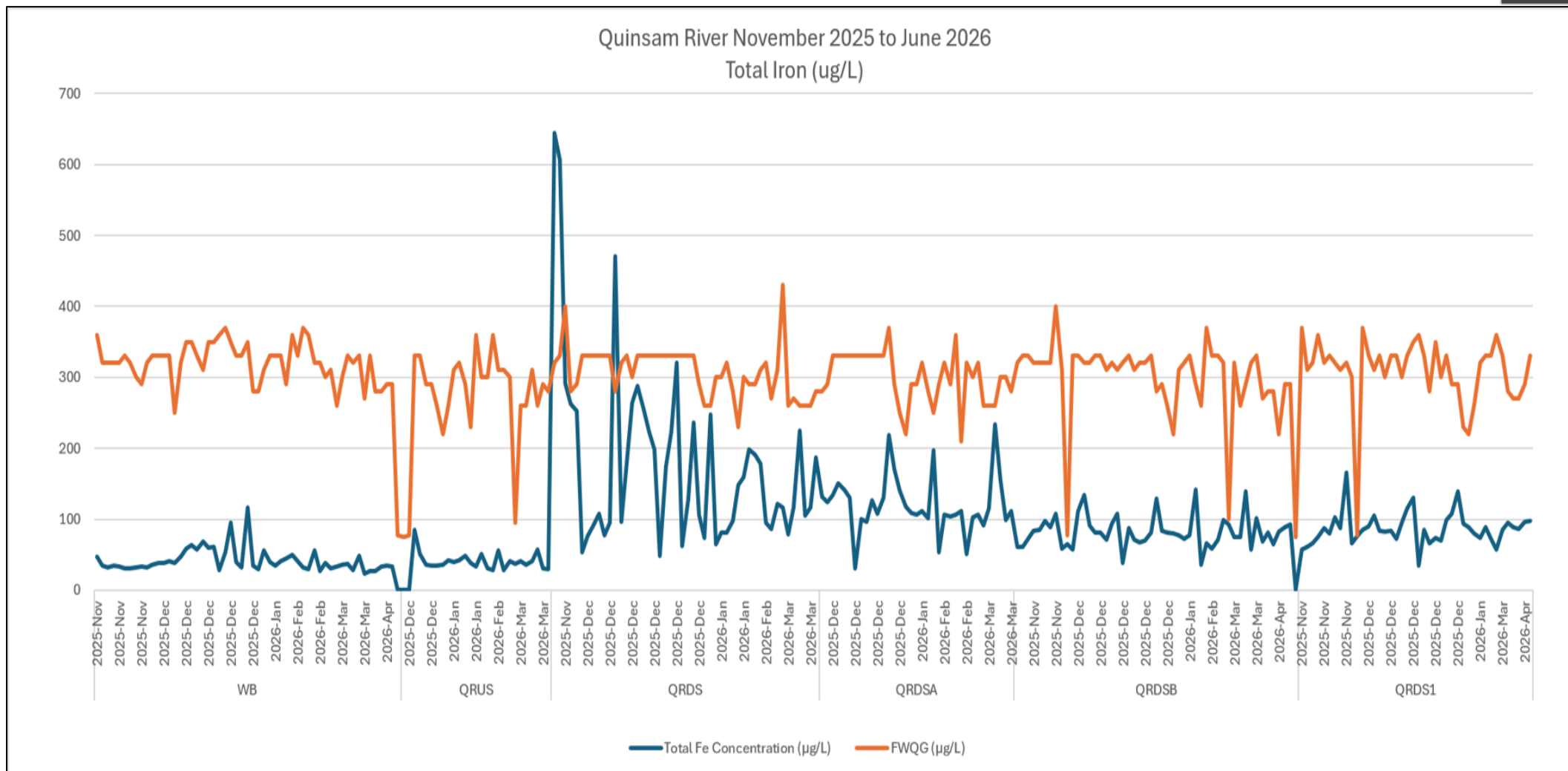




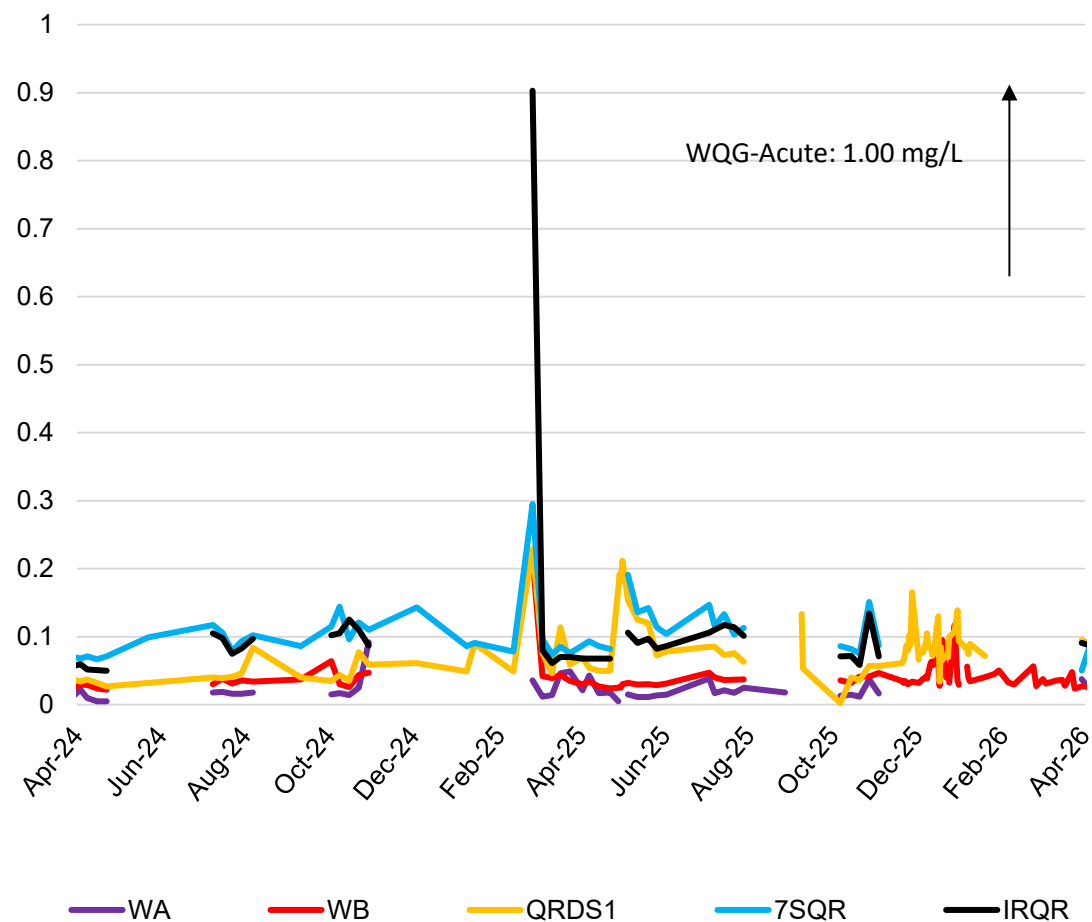
5 in 30 Average Dissolved Sulphate (mg/L) - Quinsam River



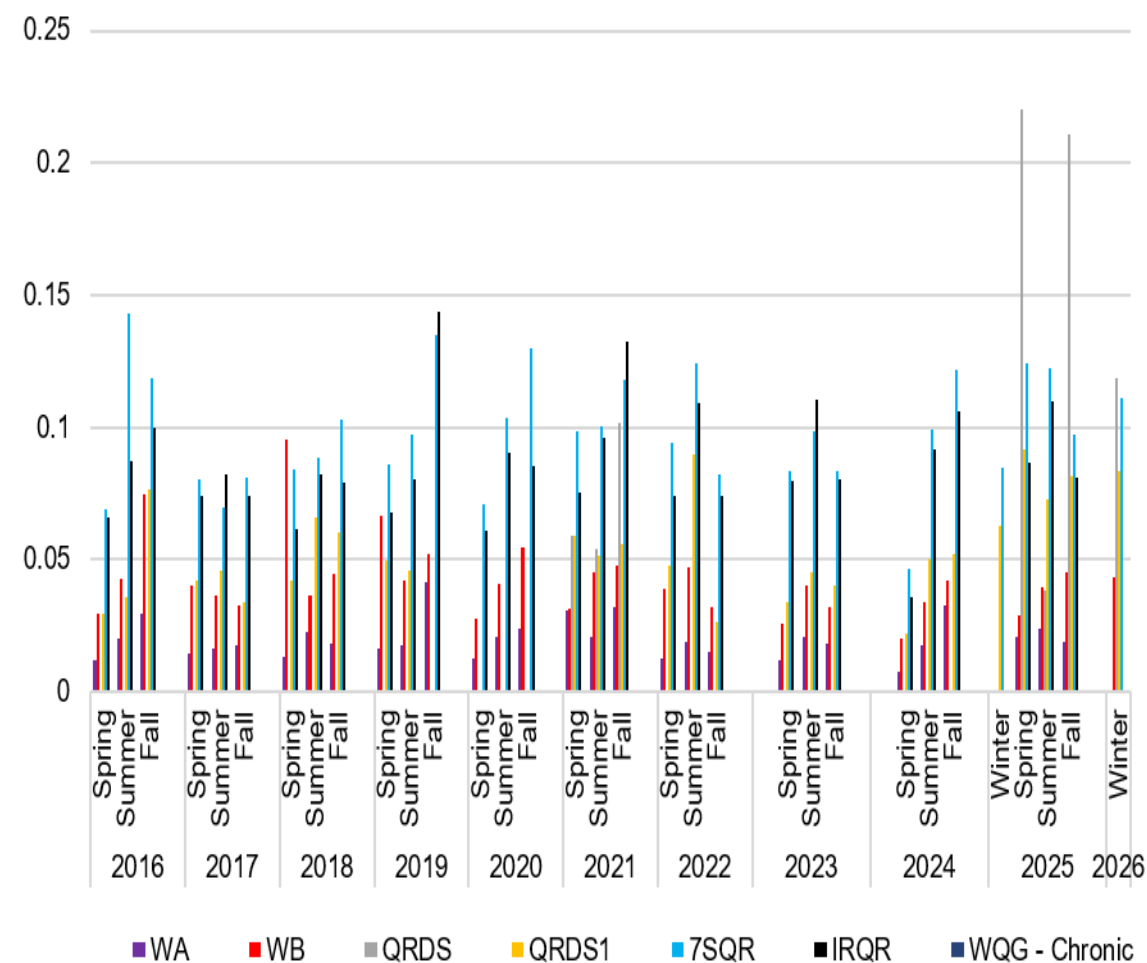




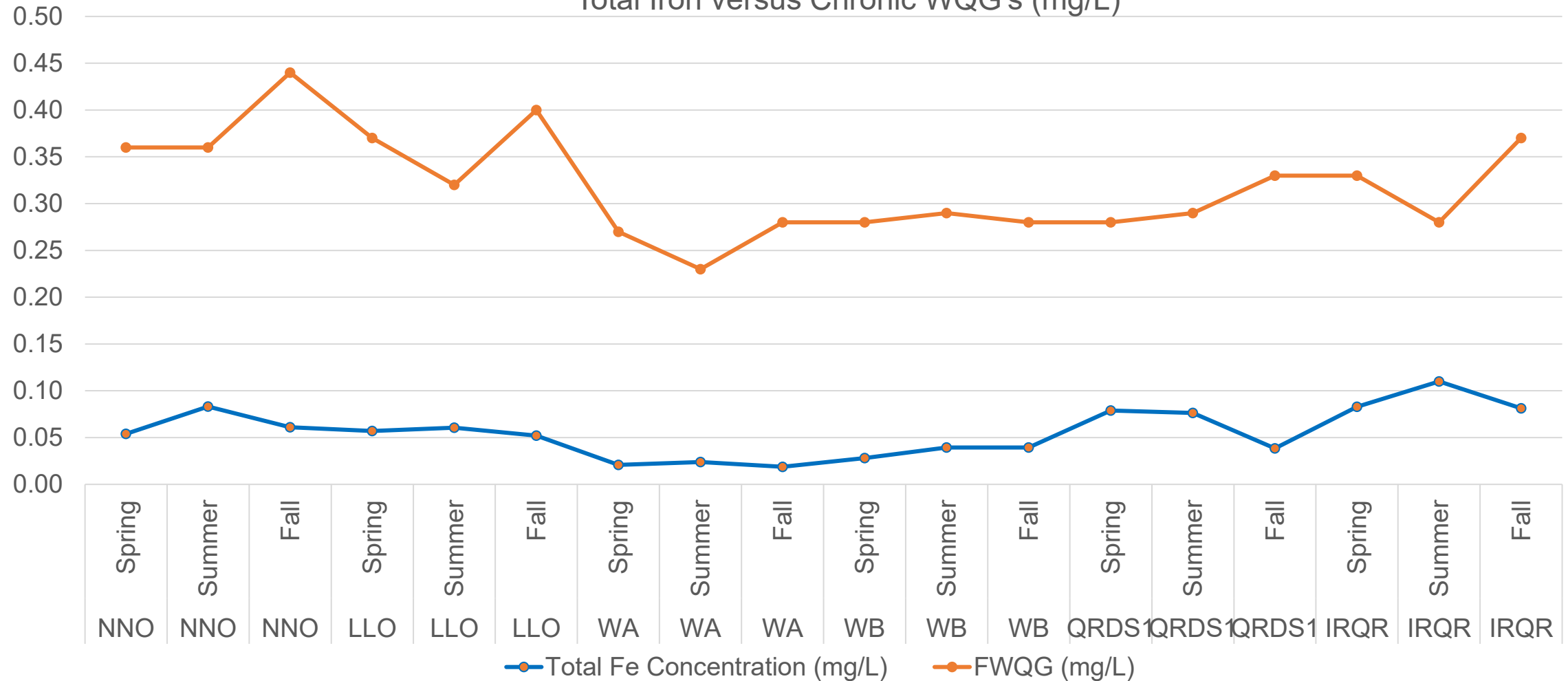
5 in 30 Total Iron (mg/L) - Quinsam River

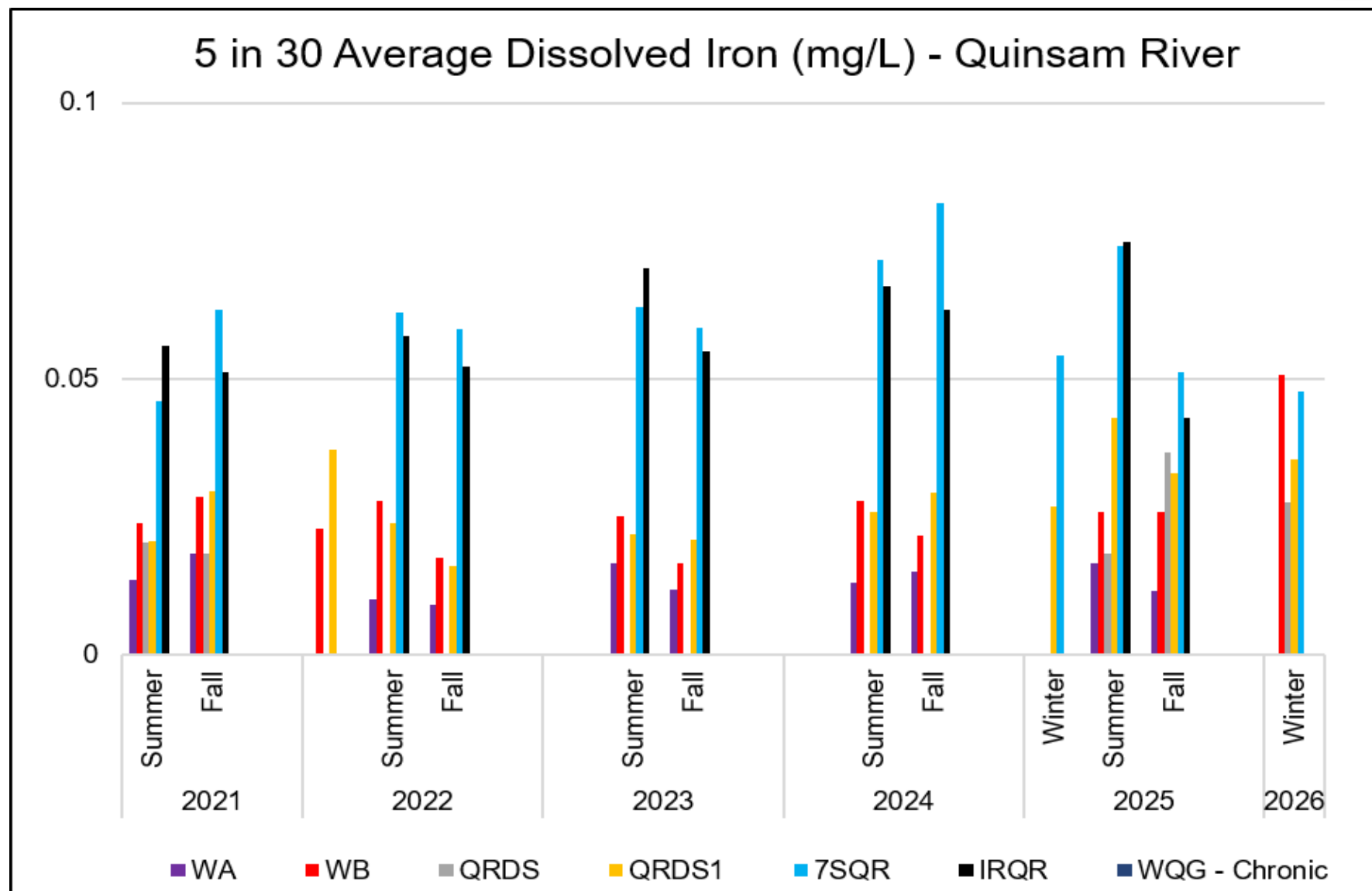


5 in 30 Average Total Iron (mg/L) - Quinsam River

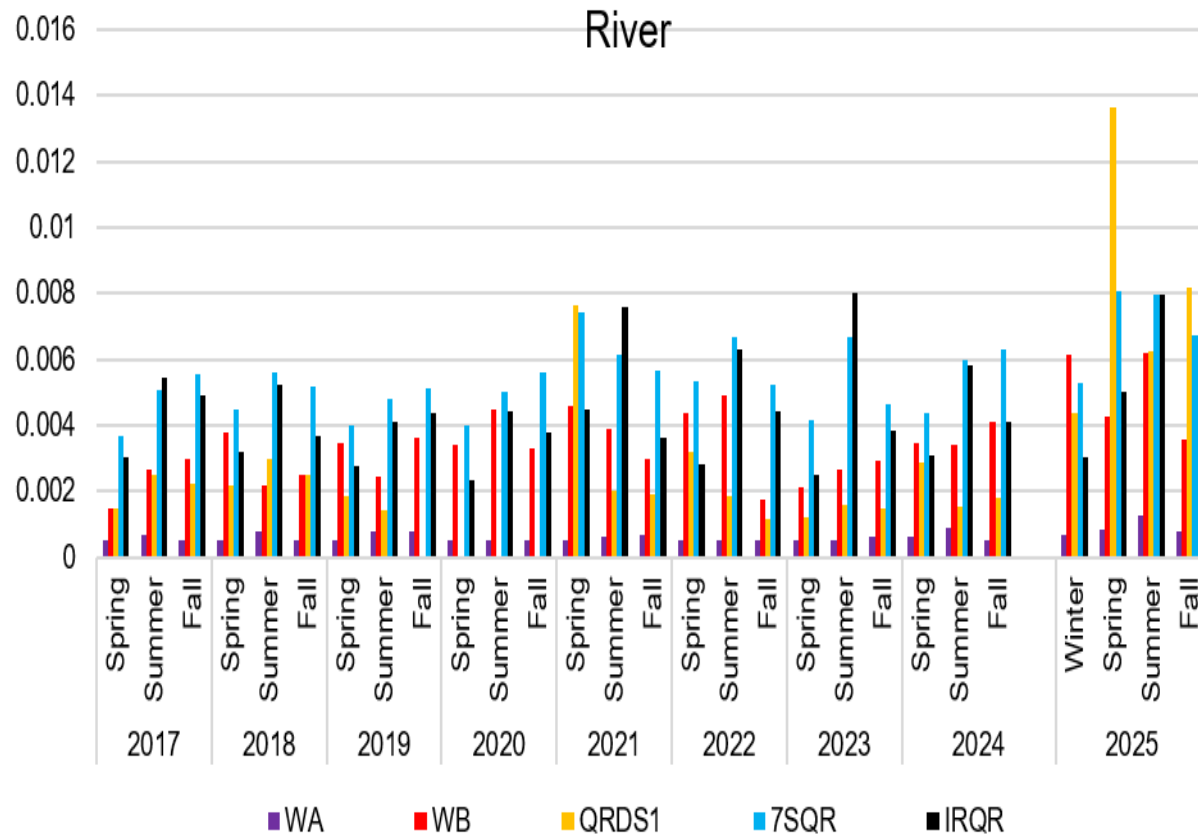


5 in 30 Average's Quinsam River, NNO and LLO
Total Iron versus Chronic WQG's (mg/L)

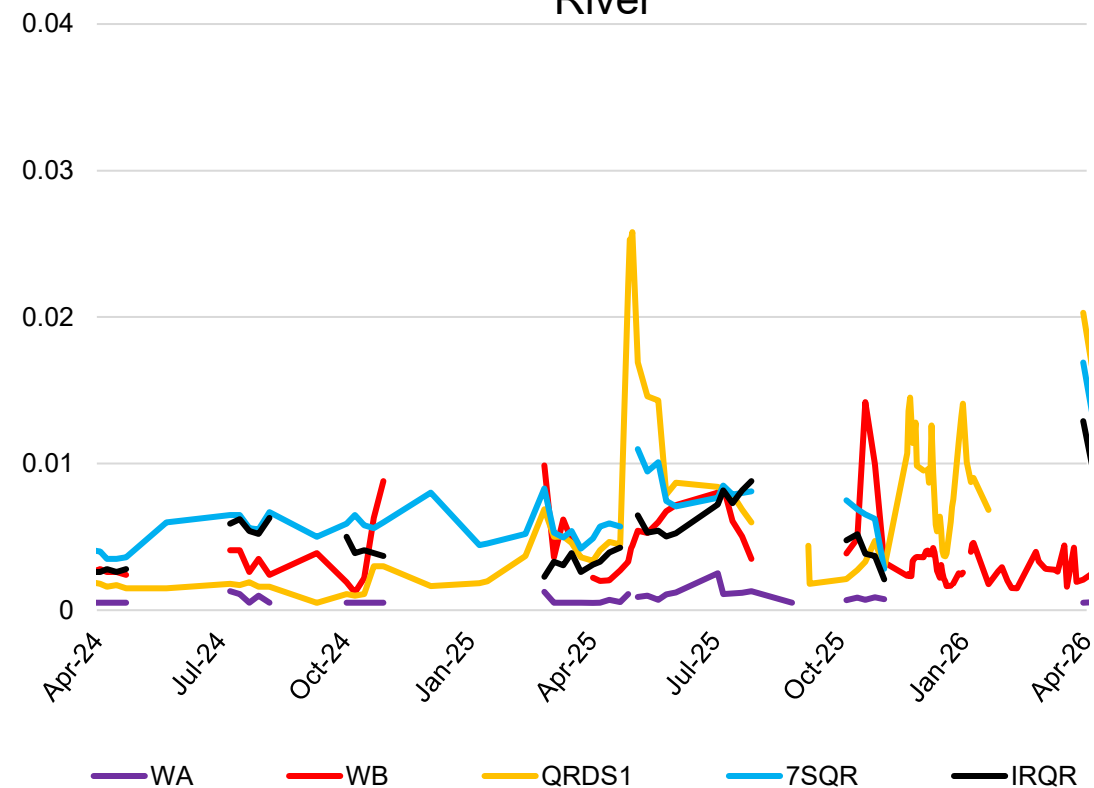


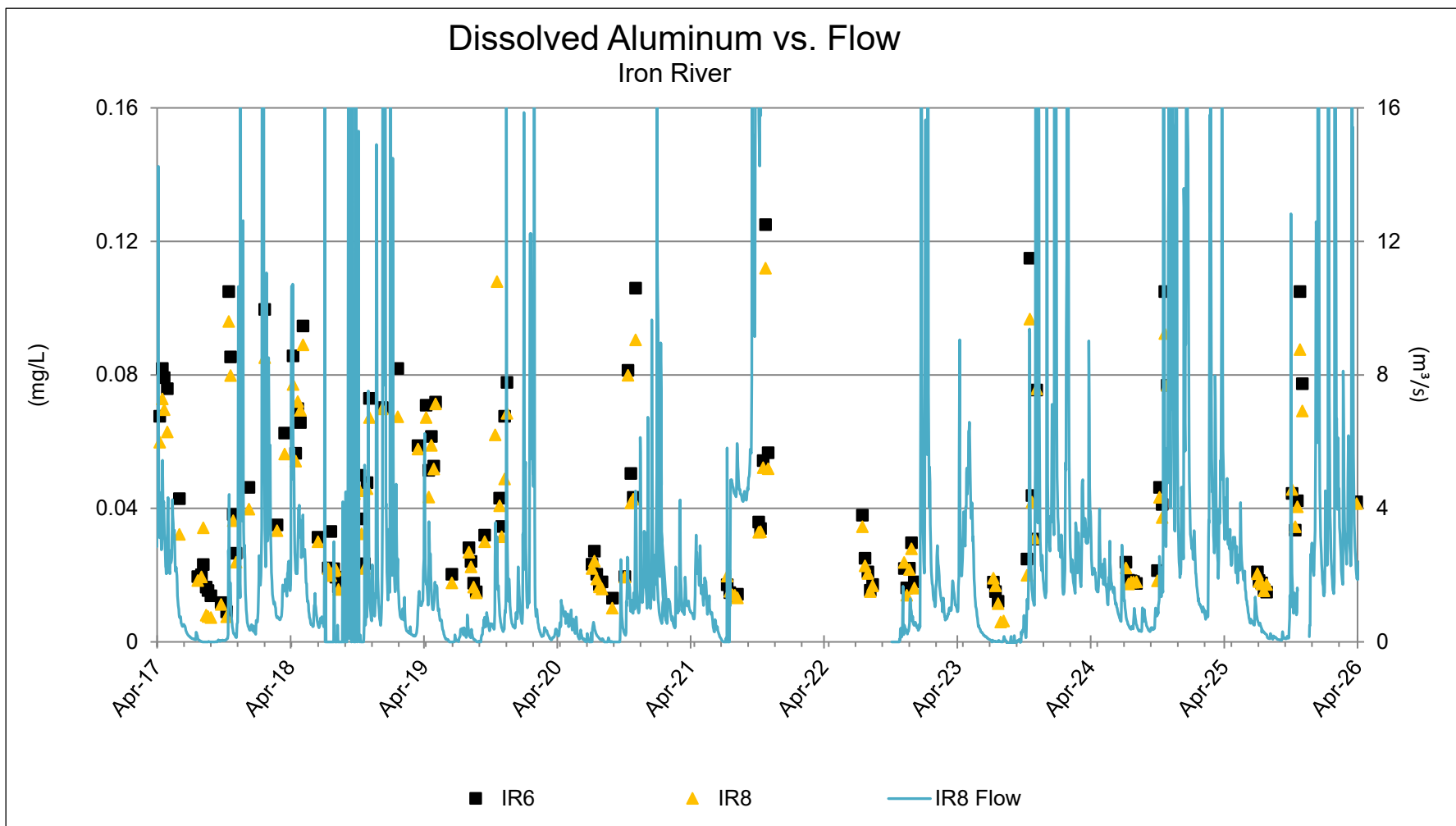


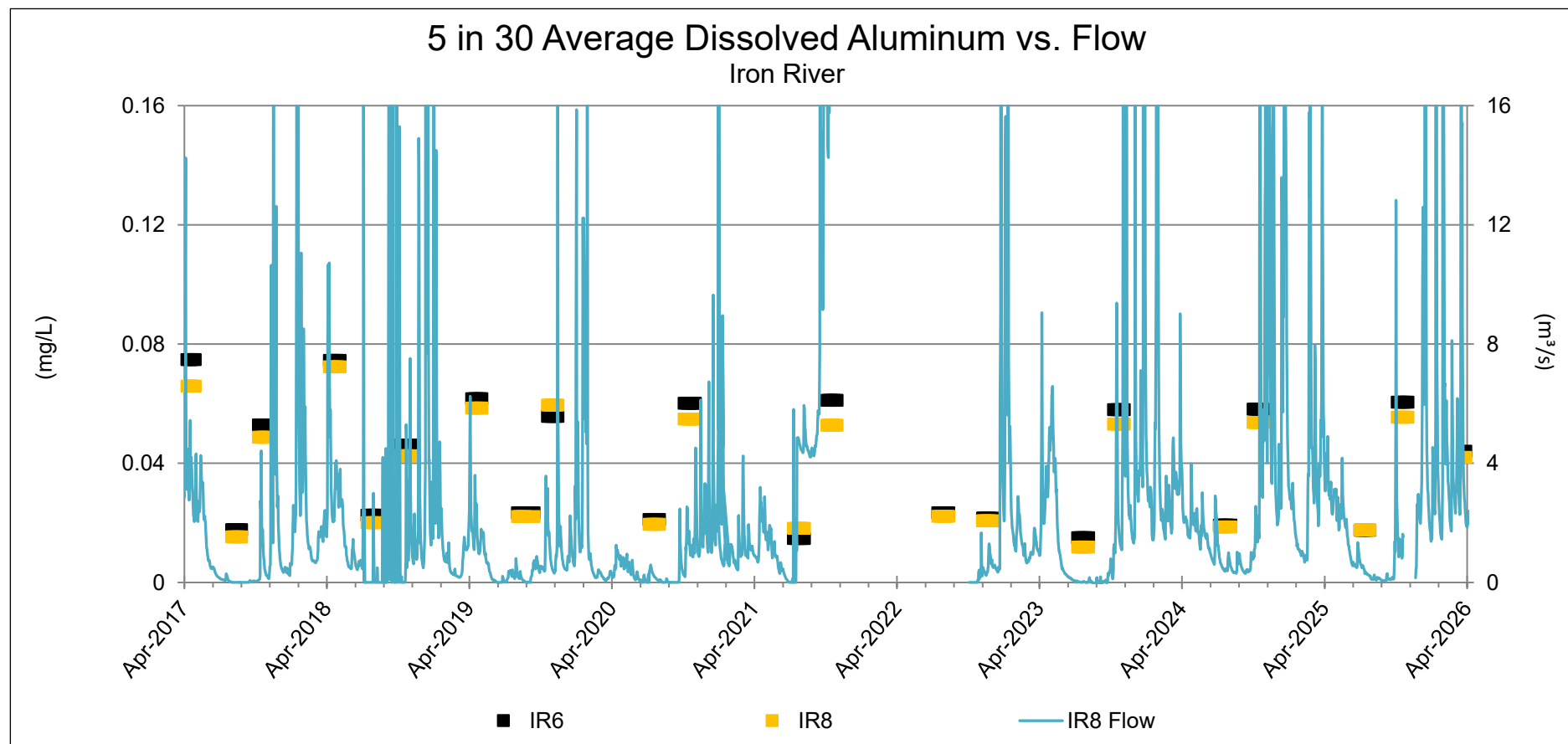
5 in 30 Average Dissolved Manganese (mg/L) - Quinsam River

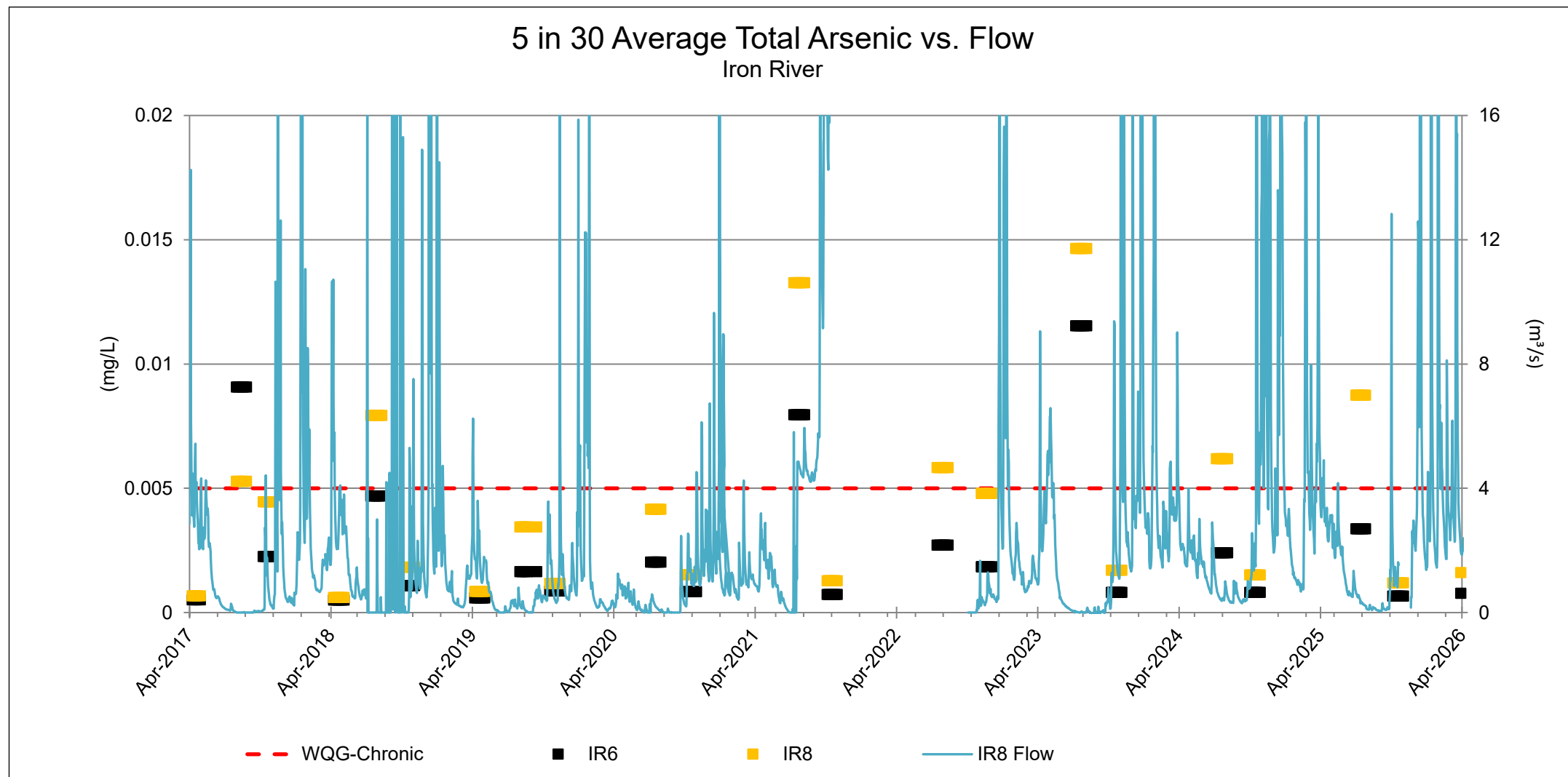


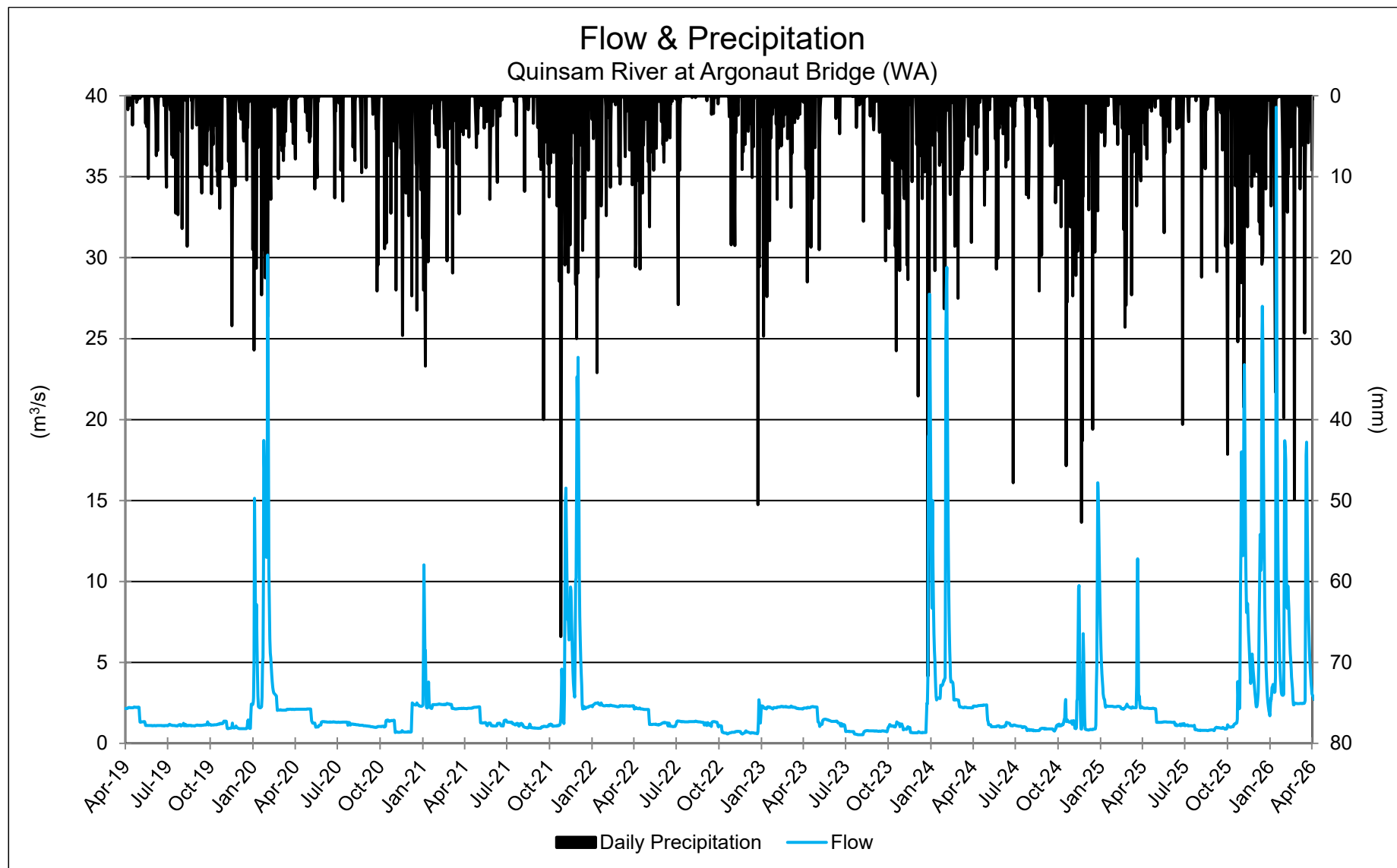
5 in 30 Dissolved Manganese (mg/L) - Quinsam River

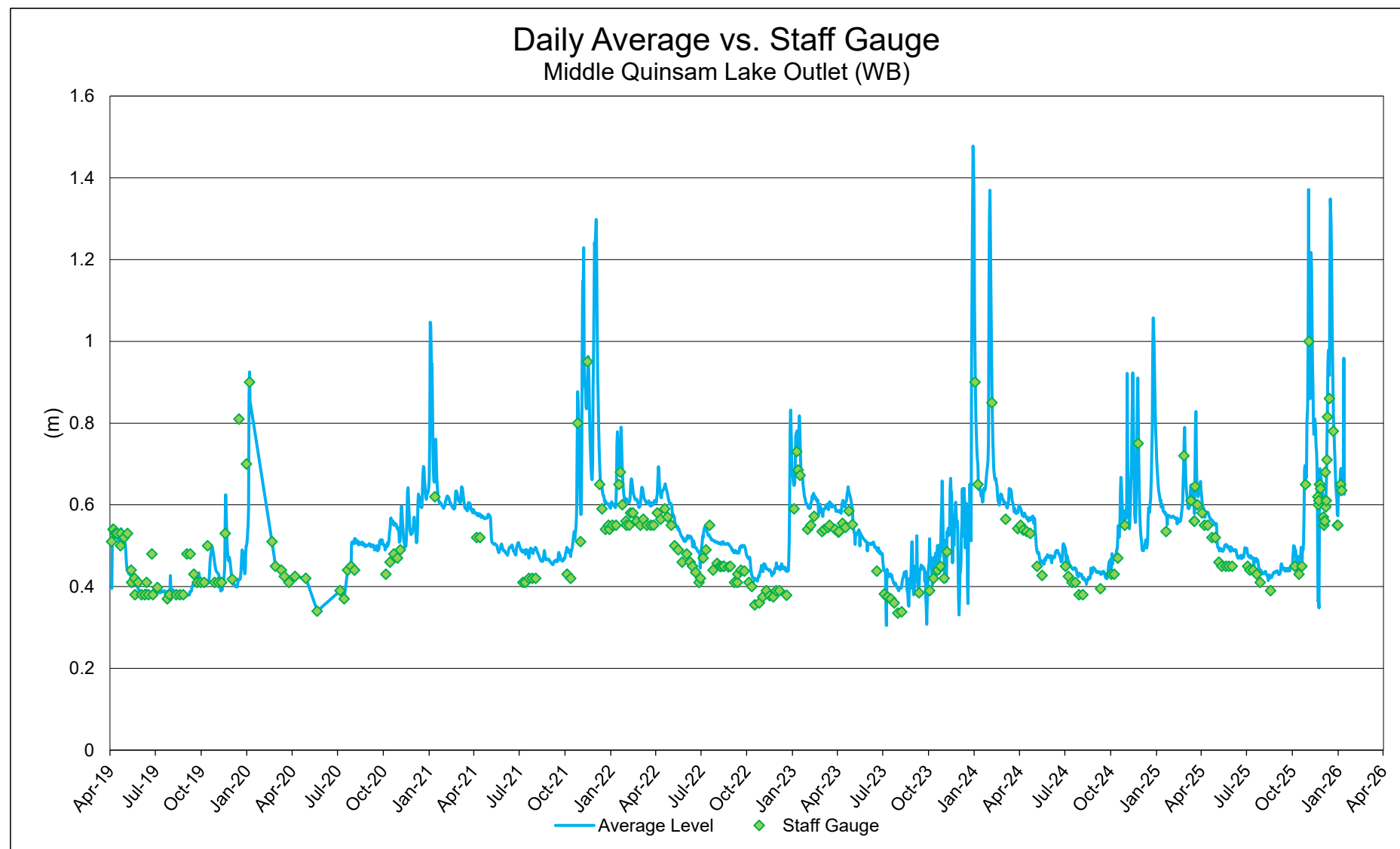


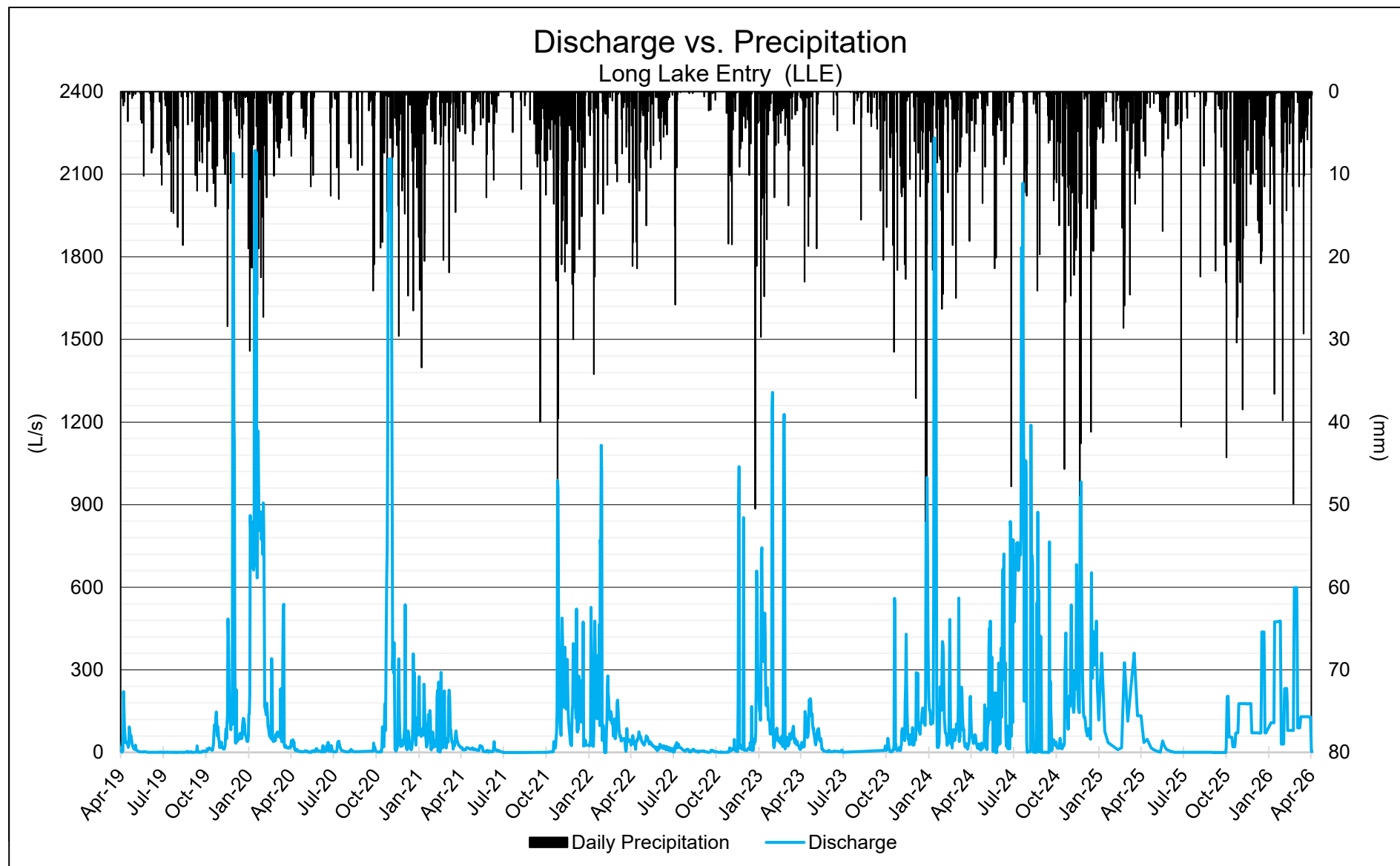


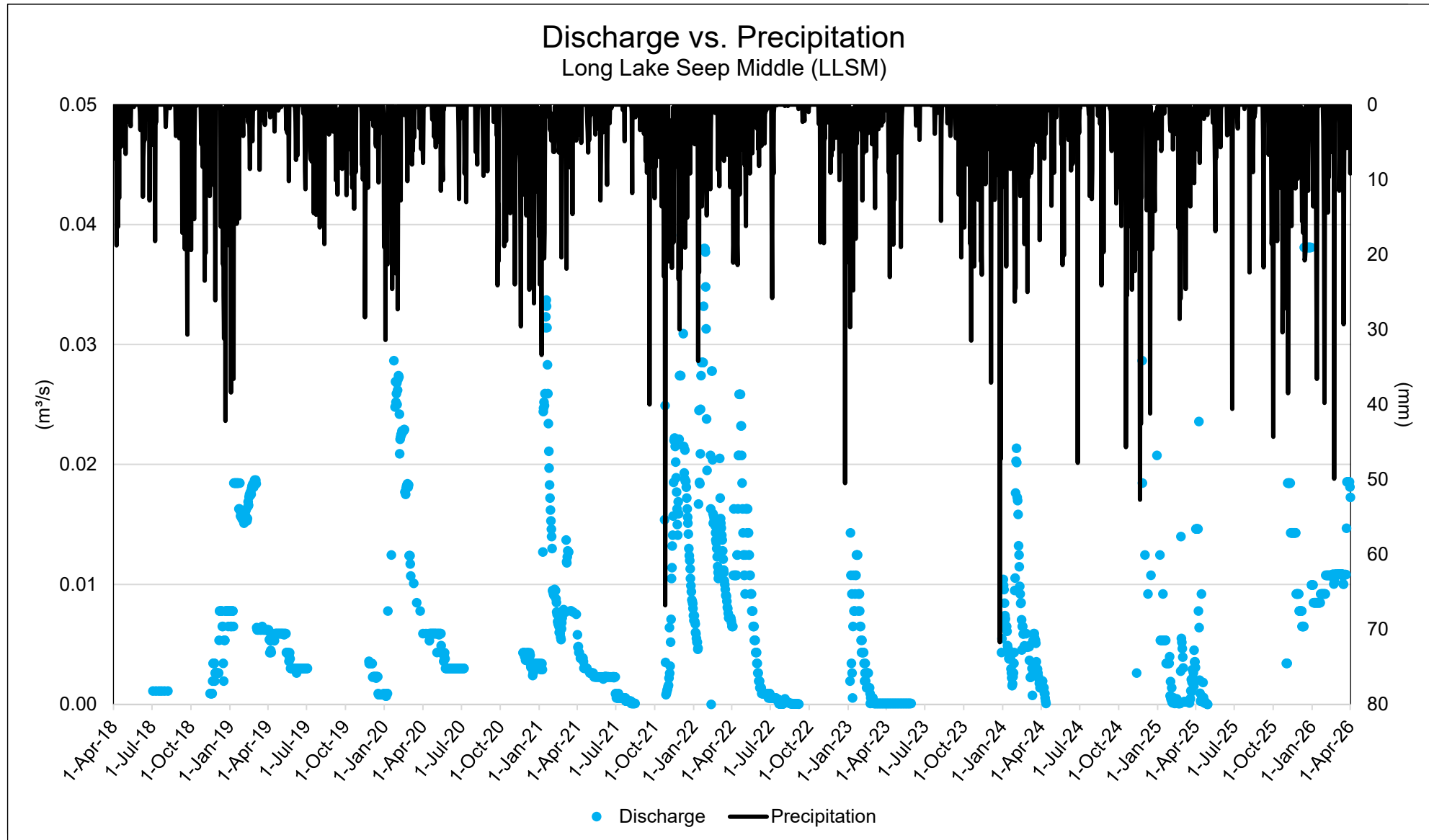


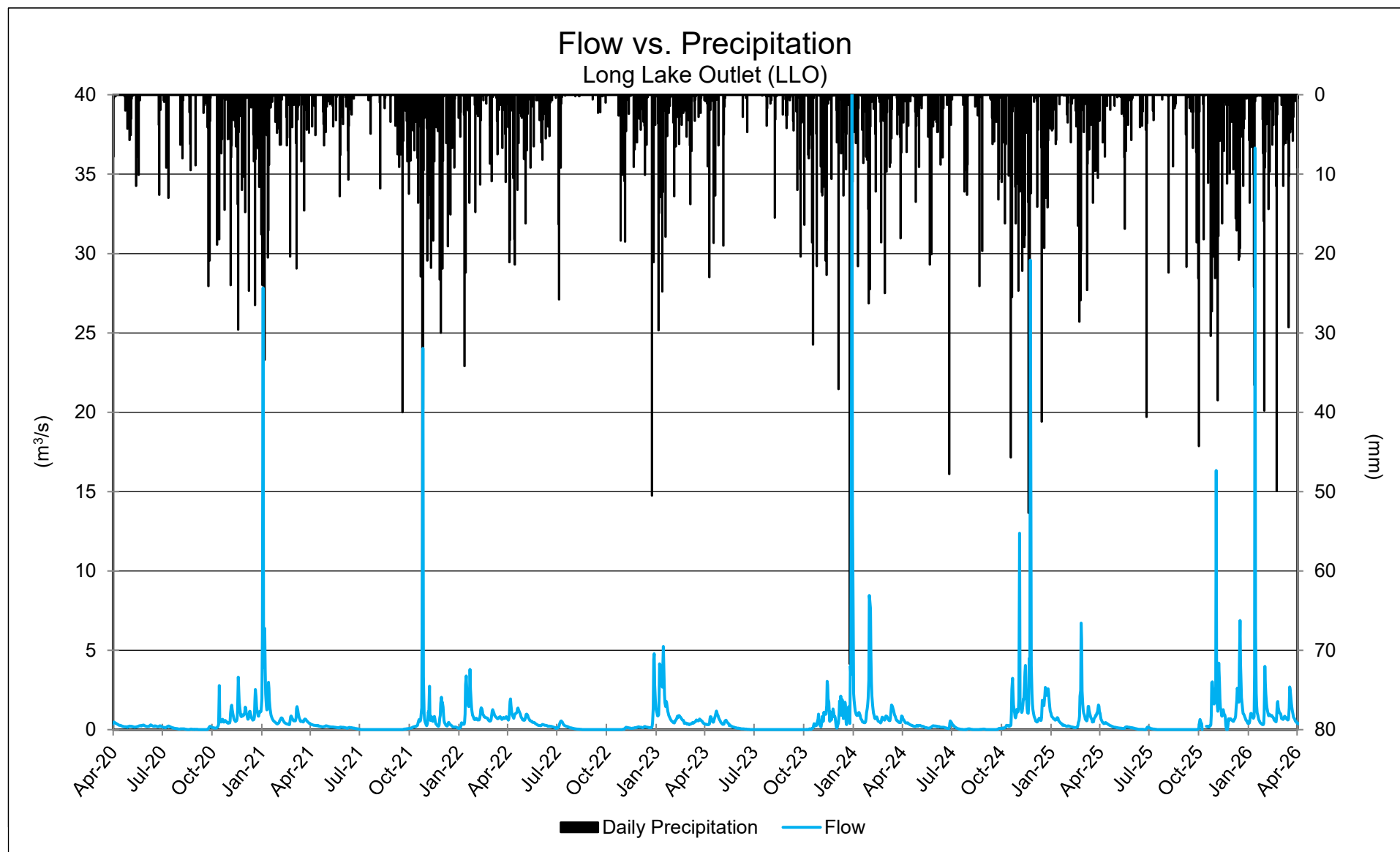


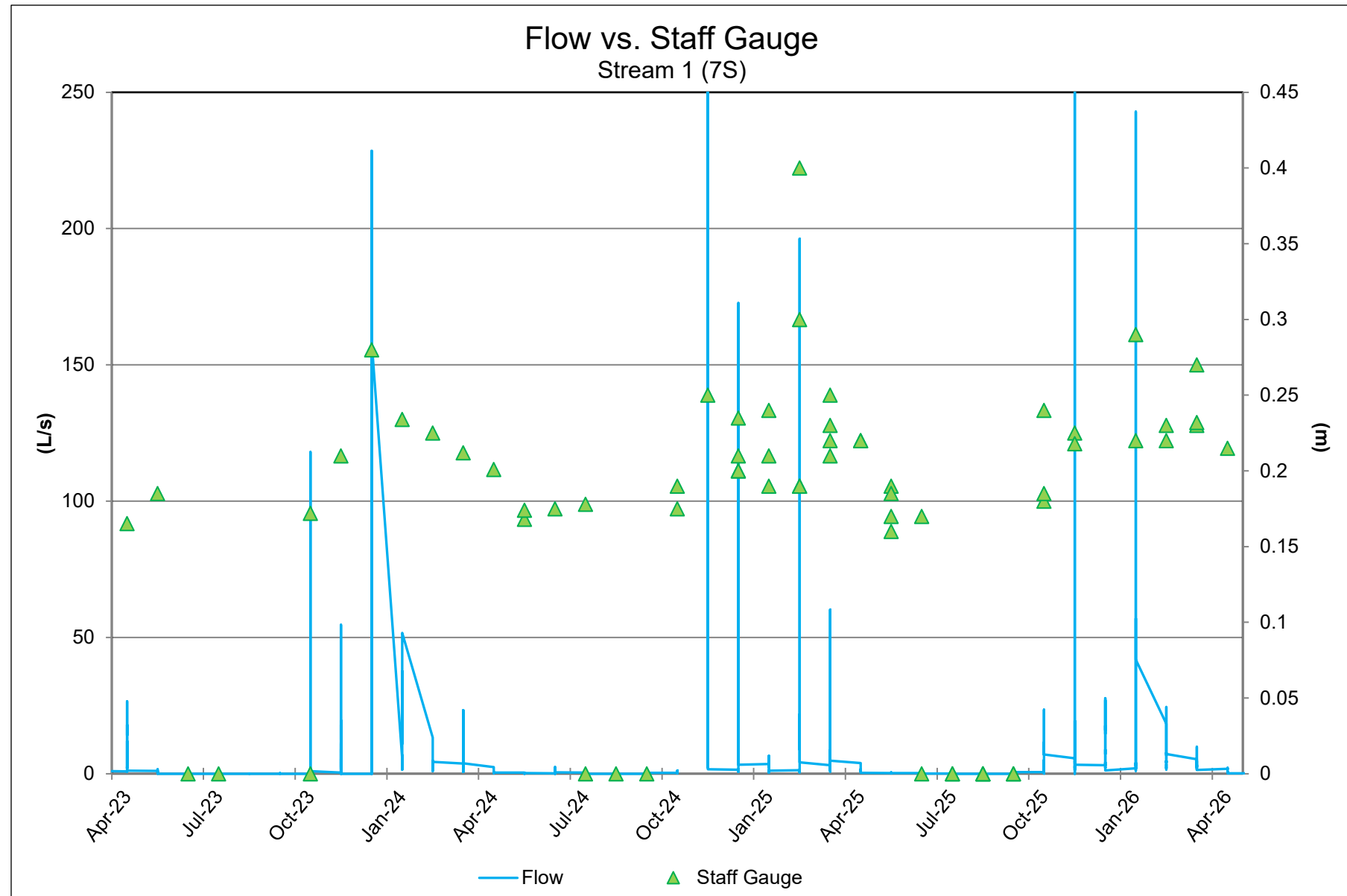




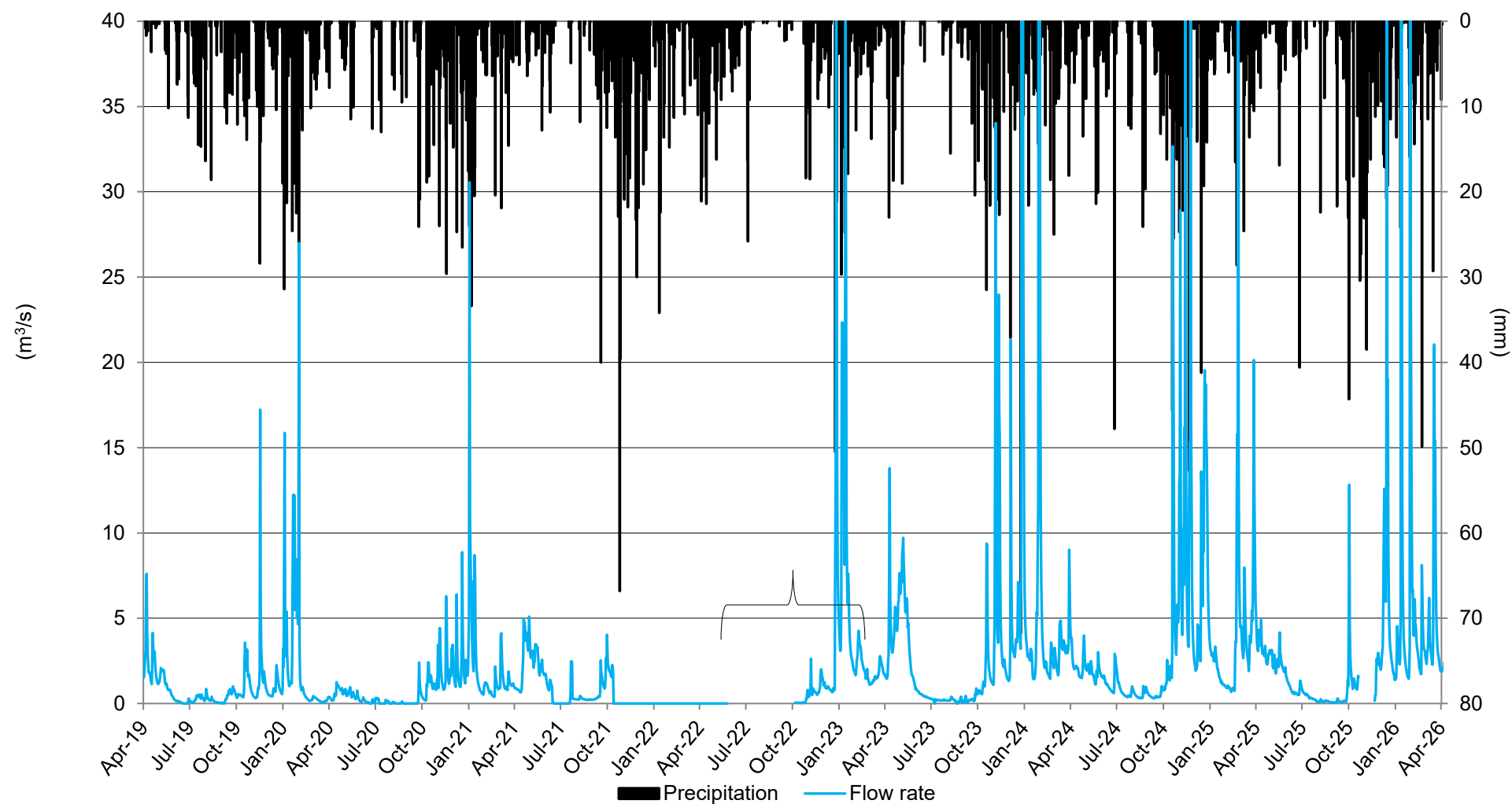




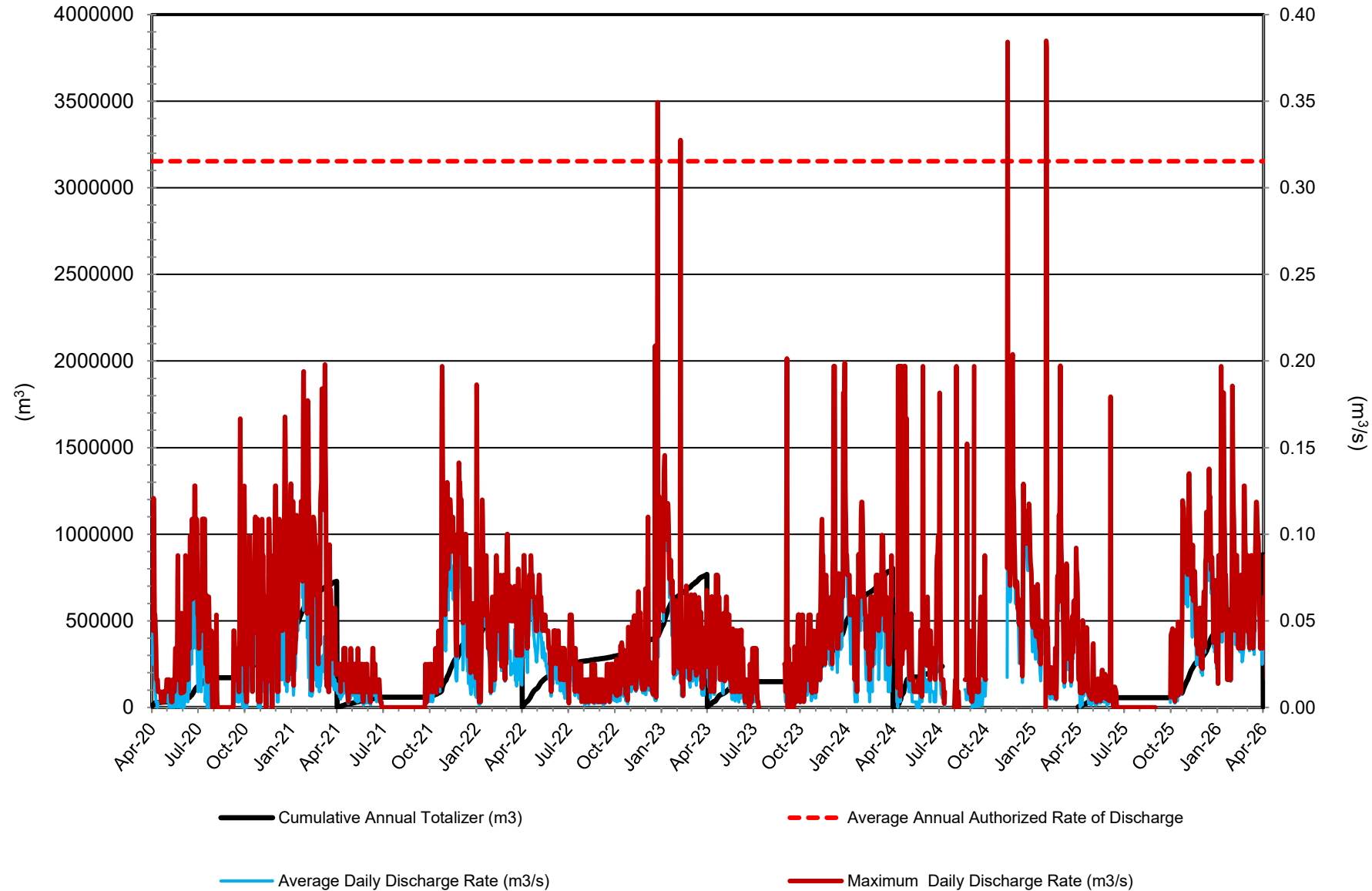


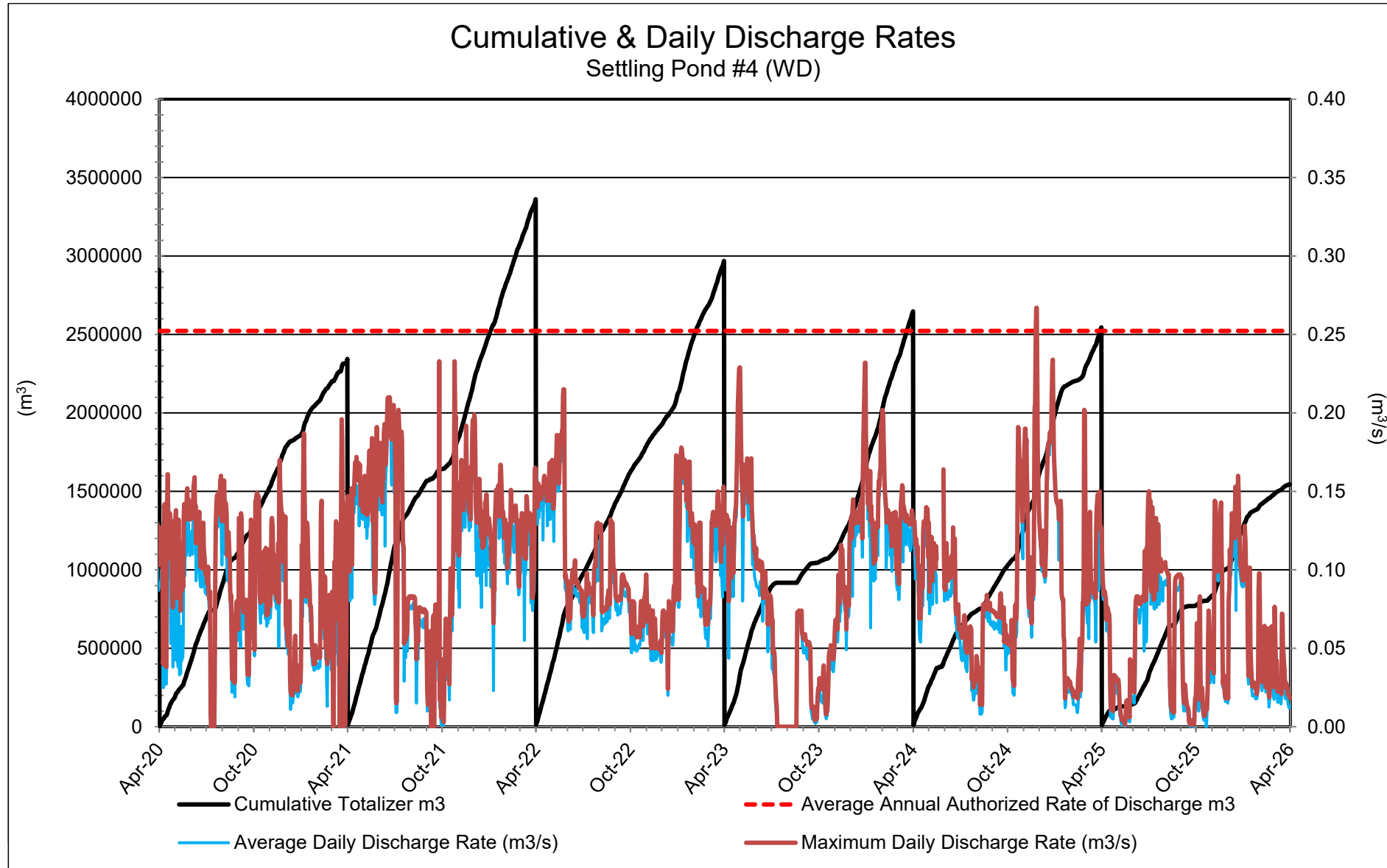


Flow vs. Precipitation
Iron River (IR8)

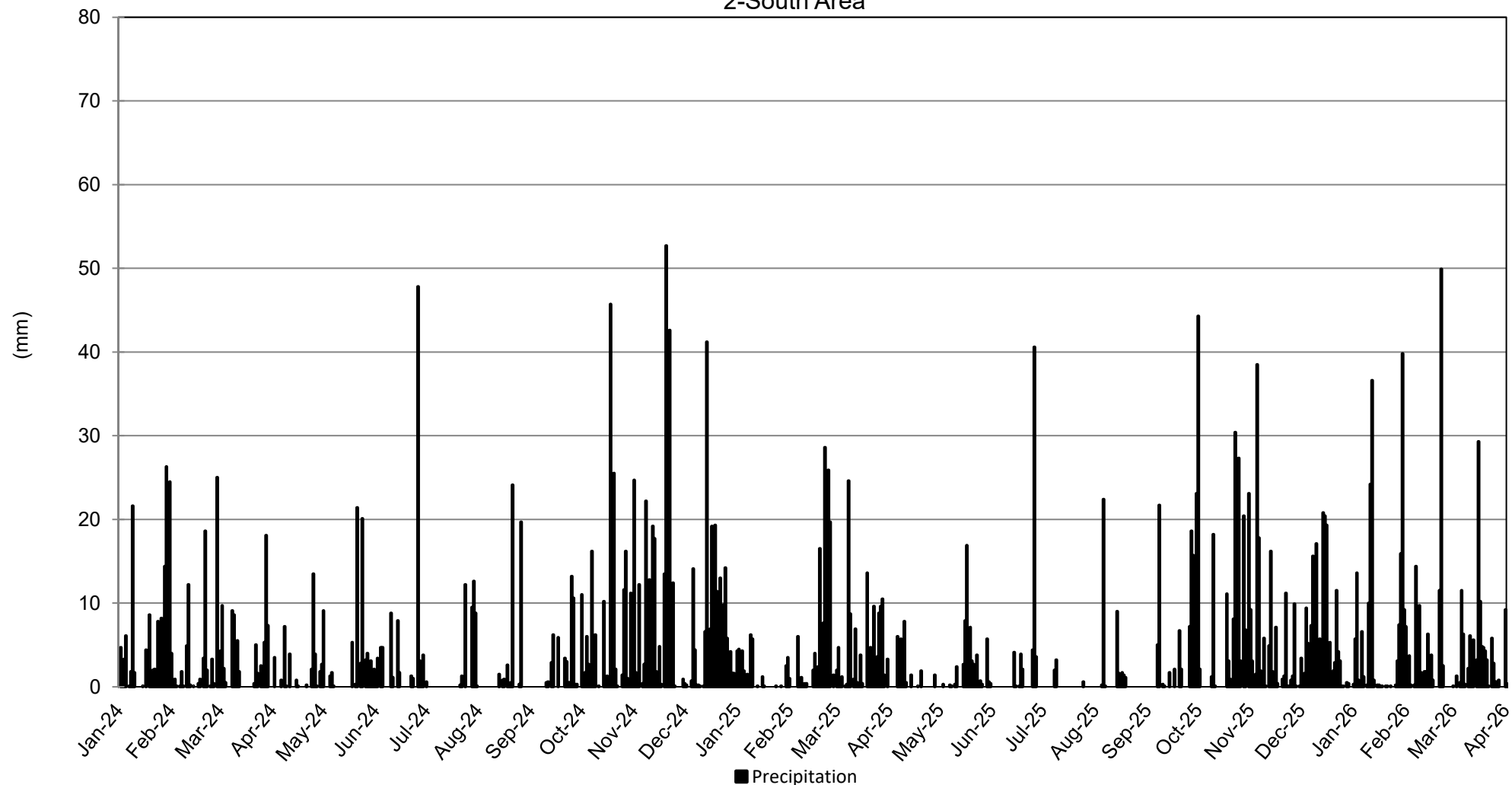


Cumulative & Daily Discharge Rates Settling Pond 1 (SPD)

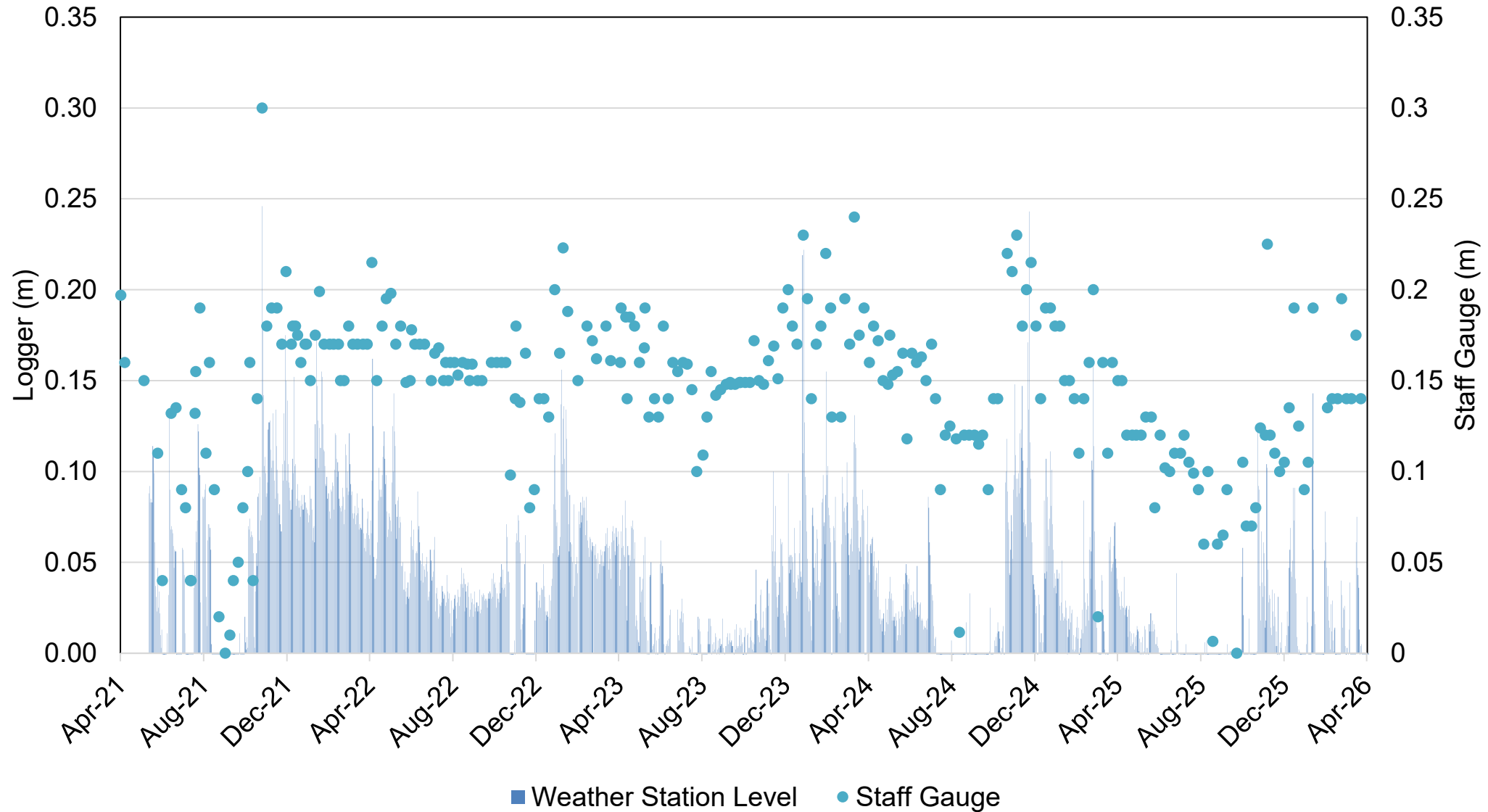


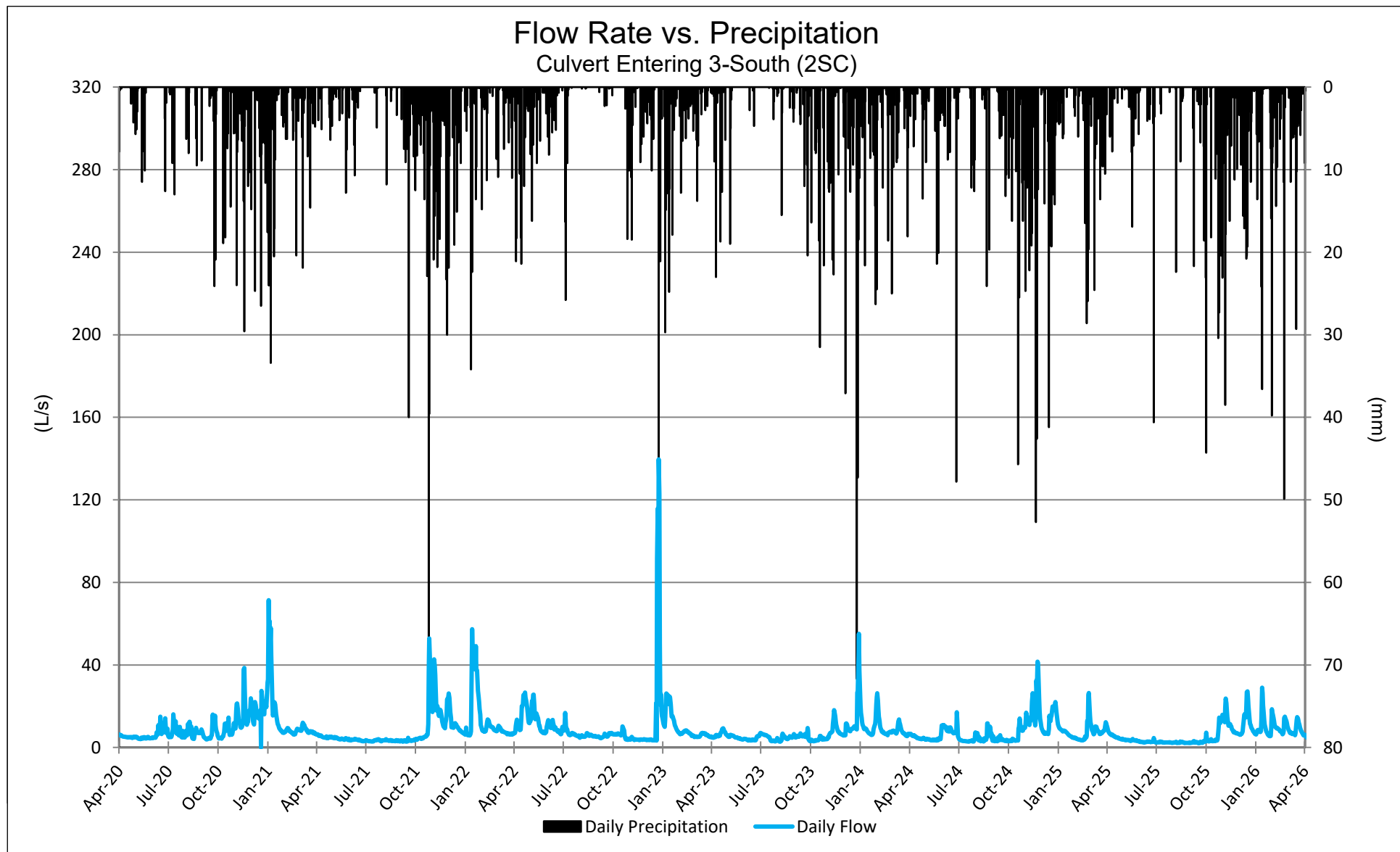


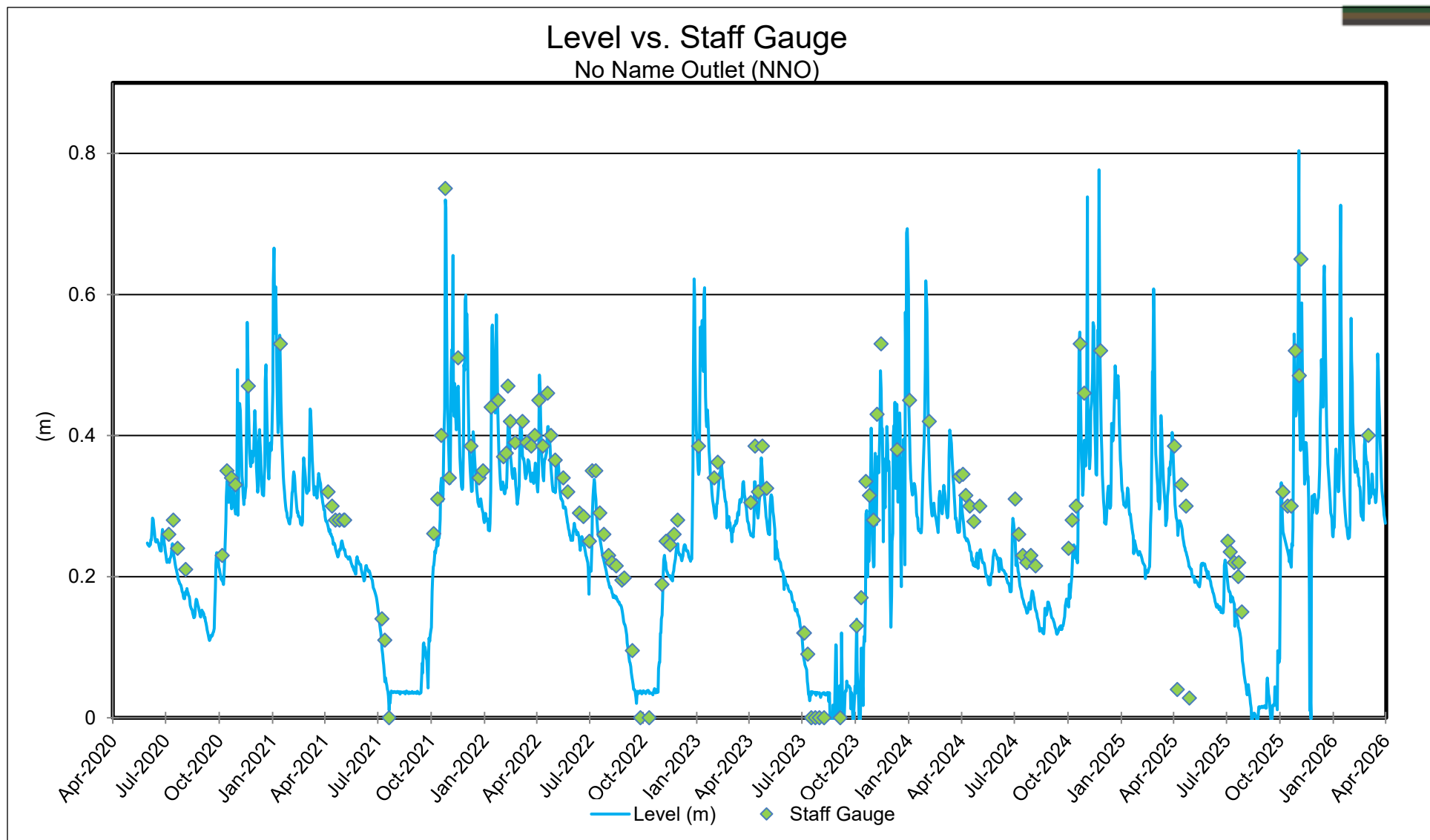
Daily Precipitation 2-South Area

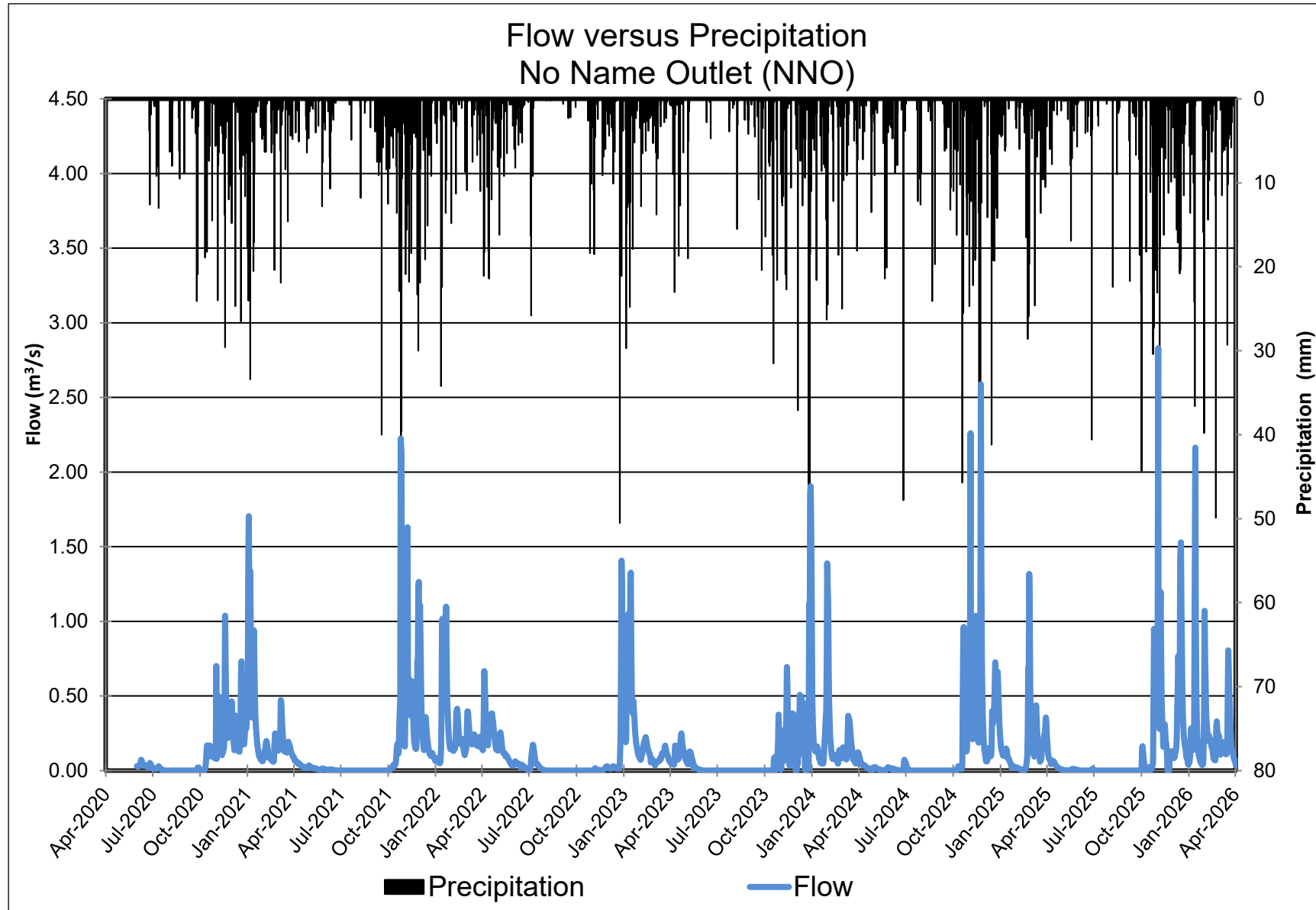


2-South Inflow Logger versus Staff Gauge (m)









Appendix III - Bioassay Results - Settling Pond #1, #4 and RBPTS

Summary of Toxicity Test, Sites and Analysis Dates

Sample ID	EMS ID	Project	Site	Bureau Veritas Sample ID	Bureau Veritas Job ID	Date Sampled	Date Range: Extracted	Date Range: Analyzed
WD	E207409	QUINSAM-WD AND SPD	Settling Pond #4	DUIJ274	C584046	2025/10/06	2025/10/08 - 2025/10/08	2025/10/08 - 2025/10/08
SPD	E218582	QUINSAM-WD AND SPD	Settling Pond #1	DUIJ275	C584046	2025/10/06	2025/10/08 - 2025/10/08	2025/10/08 - 2025/10/08
RBPT1		RBPT Toxicity Test	BH2402	DWU086	C593651	2025/11/12	2025/11/13 - 2025/11/14	2025/11/13 - 2025/11/14
RBPO		RBPT Toxicity Test	RBPO	DXI738	C595851	2025/11/20	2025/11/22 - 2025/11/22	2025/11/22 - 2025/11/22
RBPO		RBPT Toxicity Test	RBPO	DYD410	C598702	2025/12/03	2025/12/05 - 2025/12/06	2025/12/05 - 2025/12/06
RBPO		RBPT Toxicity Test	RBPO	DYS684	CSA1304	2025/12/16	2025/12/18 - 2025/12/19	2025/12/18 - 2025/12/19
RBPO		RBPT Toxicity Test	RBPO	DZE123	C600752	2026/01/06	2026/01/07 - 2026/01/08	2026/01/07 - 2026/01/08
RBPO		RBPT Toxicity Test	RBPO	DZT622	C603885	2026/01/21	2026/01/23 - 2026/01/26	2026/01/23 - 2026/01/26
RBPO		RBPT Toxicity Test	RBPO	EAE878	C605808	2026/02/02	2026/02/03 - 2026/02/03	2026/02/03 - 2026/02/03
RBPO		RBPT Toxicity Test	RBPO	EAP902	C607497	2026/02/09	2026/02/11 - 2026/02/12	2026/02/11 - 2026/02/12
RBPO		RBPT Toxicity Test	RBPO	EBI199	C610553	2026/02/24	2026/02/27 - 2026/02/27	2026/02/27 - 2026/02/27
RBPO		RBPT Toxicity Test	RBPO	EBP932	C611548	2026/03/02	2026/03/04 - 2026/03/05	2026/03/04 - 2026/03/05
RBPO		RBPT Toxicity Test	RBPO	ECX268	C617365	2026/03/30	2026/04/02 - 2026/04/03	2026/04/02 - 2026/04/03



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

**BUREAU
VERITAS**

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C5A1304
Client Project Name & Number: RBPO Toxicity, Daphnia&Rain. Trout **Sample Number:** DYS684-01

Test Result:

48 hrs Mortality % 0 **Statistical Method:** Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO-16DEC25-M

Description: Pale orange **Sample Prior to Analysis:**
Sample Collected: Dec 16, 2025 **Sampling Method :** Regular **pH:** 7.5
Sample Collected By: BOR **Site Collection:** N/A **Temperature :** 20 °C
Sample Received: Dec 17, 2025 10:40 AM **Volume Received:** 2 x ECO1 **Dissolved Oxygen:** 9.1 mg/L
Analysis Start : Dec 18, 2025 09:06 AM **Avg Temp Arrival:** 5 °C **Sample Conductance:** 2279 µS/cm
End : Dec 20, 2025 09:24 AM **Storage:** 2-6°C **Hardness:** 500 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	19	9.1	9.0	8.1	8.1	339	0	0	0
0	19	19	9.1	9.0	8.1	8.1	339	0	0	0
0	19	19	9.1	9.0	8.1	8.1	339	0	0	0
100	19	19	9.0	8.9	7.8	8.1	2284	0	0	0
100	19	19	9.0	8.8	7.8	8.0	2284	0	0	0
100	19	19	9.0	8.9	7.8	8.1	2284	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing

Culture/Control/Dilution Water: Reconstituted Water-Moderately Hard
Hardness: 100 mg/L CaCO₃ Other parameters available on request.

Test Conditions **Test concentration :** 0,0,0,100,100,100 (% vol/vol)
Organisms per Vessel : 10 **Pre-aeration Time :** 30 min **Rate of Pre-aeration :** 25-50 mL/(min*L)
Total # of Organisms Used : 60 **Test Temperature :** 20 ± 2 °C **Test Hardness Adjusted :** No
Test Volume : 185 mL **Vessel Volume :** 200 mL **Test pH Adjusted:** No
Loading Density : 18.5 mL/Daphnia **Photoperiod :** 16:8 (light: dark)

Test Organism : *Daphnia magna* **Source :** Aquatic Biosystems
Age at Test Initiation : <24 hrs **Average Brood Size :** 26.3
Culture Photoperiod : 16:8 (light: dark) **% Mortality within 7 days :** 8.5
Culture Temperature : 20 ± 2 °C **Time To First Brood :** 8 Days
Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical: Zinc **Test Date:** Dec 09, 2025
Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.40 (0.26, 0.62)mg/L **Statistical Method :** Untrimmed Spearman-Kärber
Historical Mean LC50 (warning limits) : 0.52 (0.17, 1.54) mg/L **Concentration :** 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.
Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C5A1304
Client Project Name & Number: RBPO Toxicity, Daphnia&Rain. Trout **Sample Number:** DYS684-01

Analyst : Dayna Lee

Kimaki

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology

Date: Dec 29, 2025 11:13 AM

BUREAU
VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C5A1304
Client Project Name & Number: RBPO Toxicity, Daphnia&Rain. Trout

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO-16DEC25-M

Description: Cloudy, orange Sample Number: DYS684-02
 Sample Collected: Dec 16, 2025 Sampling Method : Regular Site Collection: N/A
 Sample Collected By: BOR Volume Received: 2 x ECO10 Avg Temp Arrival: 5 °C Storage: 2-6°C
 Sample Received: Dec 17, 2025 10:40 AM pH: 7.5 Dissolved Oxygen: 9.9 mg/L
 Analysis Start : Dec 19, 2025 10:35 AM Temperature : 14 °C Sample Conductance: 2377 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	15	10.2	9.7	7.5	7.5	54	0	0	0
100	14	15	9.9	9.5	7.6	8.2	2381	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.
 At 48 hours, 72 hours, and 96 hours into testing, orange precipitate observed on the bottom of the tank in the 100% concentration.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 23 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/(min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.5 ± 0.1 g Length (Mean) +- SD : 4.06 ± 0.34 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.7 g Length (Range) : 3.50 – 4.40 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Dec 11, 2025
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.27 (0.20, 0.38)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.24 (0.13, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee, Melanie Mazzioti, Melissa Thompson, Nayshan Blassnitz

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology

Date: Dec 30, 2025 11:54 AM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C593651
 Client Project Name & Number: BH2402 RBP1 Toxicity Test Sample Number: DWU086-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBP1

Description: Yellow, opaque

Sample Prior to Analysis:

Sample Collected: Nov 12, 2025 11:30 AM

Sampling Method : Grab

pH: 7.0

Sample Collected By: K.R.

Site Collection: N/A

Temperature : 19 °C

Sample Received: Nov 13, 2025 10:32 AM

Volume Received: 2 x G1000

Dissolved Oxygen: 6.7 mg/L

Analysis Start : Nov 13, 2025 02:18 PM

Avg Temp Arrival: 1 °C

Sample Conductance: 2531 µS/cm

End : Nov 15, 2025 02:46 PM

Storage: 2-6°C

Hardness: 556 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobilty (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	19	9.0	8.8	8.1	8.1	334	0	0	0
0	19	19	9.0	8.8	8.1	8.1	334	0	0	0
0	19	19	9.0	8.8	8.1	8.1	334	0	0	0
100	19	19	6.7	7.8	7.0	7.4	2531	0	0	0
100	19	19	6.7	7.8	7.0	7.5	2531	0	0	0
100	19	19	6.7	8.6	7.0	8.1	2531	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing**Culture/Control/Dilution Water:**

Reconstituted Water-Moderately Hard

Hardness:

96 mg/L CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10

Pre-aeration Time : 0 min

Rate of Pre-aeration : 25-50 mL/(min*L)

Total # of Organisms Used : 60

Test Temperature : 20 ± 2 °C

Test Hardness Adjusted : No

Test Volume : 185 mL

Vessel Volume : 200 mL

Test pH Adjusted: No

Loading Density :

18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation :

<24 hrs

Average Brood Size :

30.4

Culture Photoperiod :

16:8 (light: dark)

% Mortality within 7 days :

2.9

Culture Temperature :

20 ± 2 °C

Time To First Brood :

8 Days

Culture Diet

4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date:

Nov 12, 2025

Test Endpoint 48 hrs LC50 (95% confidence interval) :

0.28 (0.21, 0.38)mg/L

Statistical Method :

Untrimmed
Spearman-
Kärber

Historical Mean LC50 (warning limits) :

0.54 (0.18, 1.55) mg/L

Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations:

None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C593651
Client Project Name & Number: BH2402 RBP1 Toxicity Test **Sample Number:** DWU086-01

Analyst : Melanie Mazziotti, Melissa Thompson

K. Tamaki

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology

Date: Nov 25, 2025 04:49 PM

BUREAU
VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C593651
Client Project Name & Number: BH2402 RBP1 Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBP1

Description: Orange, opaque, hard to see through Sample Number: DWU086-02
 Sample Collected: Nov 12, 2025 11:30 AM Sampling Method: Grab Site Collection: N/A
 Sample Collected By: K.R. Volume Received: 2 x ECO10 Avg Temp Arrival: 3 °C Storage: 2-6 °C
 Sample Received: Nov 13, 2025 10:32 AM pH: 7.0 Dissolved Oxygen: 5.2 mg/L
 Analysis Start: Nov 14, 2025 12:20 PM Temperature: 14 °C Sample Conductance: 2601 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	15	10.1	10.1	7.6	7.5	51	0	0	D(1)
100	14	15	6.9	9.3	7.1	8.0	2595	0	0	0

Atypical Behaviour Notes : D=Dark pigmentation

Comments :

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water
 Hardness: 20 mg/L CaCO₃ Other parameters available on request.

Test Conditions Test concentration : 0,100 (% vol/vol)
 Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration : 6.5±1 mL/(min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.2 g/L Photoperiod : 16:8 (light: dark)

Test Organism : Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm
 Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.3 ± 0.1 g Length (Mean) +- SD : 3.54 ± 0.30 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.2 – 0.5 g Length (Range) : 3.20 – 4.10 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0.34%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical: Zinc Test Date: Nov 13, 2025
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.29 (0.21, 0.41)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.23 (0.12, 0.45) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.
 Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Larissa dos Santos Soares, Melanie Mazziotti, Navpreet Shergill

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology

Date: Nov 26, 2025 04:23 PM



RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C595851
Client Project Name & Number: RBPO RBPO Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Pale orange, slightly cloudy Sample Number: DXI738-02
Sample Collected: Nov 20, 2025 03:35 PM Sampling Method: Regular Site Collection: N/A
Sample Collected By: KR Volume Received: 2 x ECO10 Avg Temp Arrival: 5 °C Storage: 2-6°C
Sample Received: Nov 21, 2025 01:00 PM pH: 7.5 Dissolved Oxygen: 9.6 mg/L
Analysis Start: Nov 22, 2025 09:58 AM Temperature: 14 °C Sample Conductance: 2345 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	15	10.2	9.7	7.6	7.4	50	0	0	0
100	14	14	9.8	9.8	7.5	8.3	2344	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water

Burnaby Municipal Dechlorinated Water

Hardness: 20 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/ (min*L)
Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.5 ± 0.2 g Length (Mean) +- SD : 3.87 ± 0.38 cm
Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.2 – 0.7 g Length (Range) : 3.30 – 4.50 cm
Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Nov 13, 2025

Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.29 (0.21, 0.41)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 0.23 (0.12, 0.45) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Melanie Mazzotti, Melissa Thompson, Navpreet Shergill

Verified By : Melissa Thompson, Scientist

Date: Dec 02, 2025 01:13 PM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C595851
 Client Project Name & Number: RBPO RBPO Toxicity Test Sample Number: DXI738-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Pale yellow Sample Prior to Analysis:
 Sample Collected: Nov 20, 2025 03:35 PM Sampling Method : Regular pH: 7.4
 Sample Collected By: KR Site Collection: N/A Temperature : 19 °C
 Sample Received: Nov 21, 2025 01:00 PM Volume Received: 2 x G1000 Dissolved Oxygen: 10.1 mg/L
 Analysis Start : Nov 22, 2025 02:56 PM Avg Temp Arrival: 5 °C Sample Conductance: 2266 µS/cm
 End : Nov 24, 2025 02:05 PM Storage: 2-6°C Hardness: 510 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	18	9.1	9.2	8.1	8.1	324	0	0	0
0	19	18	9.1	9.2	8.1	8.1	324	0	0	0
0	19	19	9.1	9.2	8.1	8.1	324	0	0	0
100	19	19	9.5	8.9	7.7	8.1	2259	0	0	0
100	19	19	9.5	8.9	7.7	8.1	2259	0	0	0
100	19	19	9.5	8.9	7.7	8.1	2259	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing**Culture/Control/Dilution Water:** Reconstituted Water-Moderately HardHardness: 100 mg/L CaCO₃ Other parameters available on request.**Test Conditions** Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
 Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
 Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
 Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism : *Daphnia magna* Source : Aquatic Biosystems
 Age at Test Initiation : <24 hrs Average Brood Size : 28.3
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 5.9
 Culture Temperature : 20 ± 2 °C Time To First Brood : 8 Days
 Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical: Zinc Test Date: Nov 25, 2025
 Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.40 (0.19, 0.60)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.51 (0.17, 1.55) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee, Navpreet Shergill

Verified By : Melissa Thompson, Scientist

Date: Dec 02, 2025 05:00 PM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C598702
 Client Project Name & Number: RBPT Toxicity Test Sample Number: DYD410-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Pale orange Sample Prior to Analysis:
 Sample Collected: Dec 03, 2025 12:30 PM Sampling Method : Regular pH: 7.6
 Sample Collected By: N/A Site Collection: N/A Temperature : 20 °C
 Sample Received: Dec 04, 2025 10:15 AM Volume Received: 4 x G500 Dissolved Oxygen: 10.3 mg/L
 Analysis Start : Dec 06, 2025 02:54 PM Avg Temp Arrival: 1 °C Sample Conductance: 2380 µS/cm
 End : Dec 08, 2025 03:04 PM Storage: 2-6°C Hardness: 540 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobilty (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	19	9.3	9.1	8.1	8.2	340	0	0	0
0	19	19	9.3	9.1	8.1	8.2	340	0	0	0
0	19	19	9.3	9.1	8.1	8.2	340	0	0	0
100	19	19	9.4	9.0	7.9	8.1	2380	0	0	0
100	19	19	9.4	9.0	7.9	8.1	2380	0	0	0
100	19	19	9.4	9.0	7.9	8.2	2380	0	0	0

Comments : At 48 hours, the daphnids in the 100% v/v concentration were observed to be only swimming along the bottom of the test vessels.

Culture/Control/Dilution Water:

Reconstituted Water-Moderately Hard

Hardness: 100 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
 Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
 Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
 Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs Average Brood Size : 29.6
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 7
 Culture Temperature : 20 ± 2 °C Time To First Brood : 8 Days
 Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Dec 09, 2025

Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.40 (0.26, 0.62)mg/L Statistical Method : Untrimmed Spearman-Kärber

Historical Mean LC50 (warning limits) : 0.52 (0.17, 1.54) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C598702
Client Project Name & Number: RBPT Toxicity Test **Sample Number:** DYD410-01

Analyst : Dayna Lee, Ki Yeon Lee

A handwritten signature in black ink, appearing to read "Dayna Lee", written over a horizontal line.

Verified By : Melissa Thompson, Scientist

Date: Dec 16, 2025 10:27 AM

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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C598702
Client Project Name & Number: RBPT Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Yellow, cloudy Sample Number: DYD410-02
 Sample Collected: Dec 03, 2025 12:30 PM Sampling Method : Regular Site Collection: N/A
 Sample Collected By: N/A Volume Received: 2 x ECO10 Avg Temp Arrival: 1 °C Storage: 2-6°C
 Sample Received: Dec 04, 2025 10:15 AM pH: 7.6 Dissolved Oxygen: 10.4 mg/L
 Analysis Start : Dec 05, 2025 03:15 PM Temperature : 13 °C Sample Conductance: 2488 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	15	10.2	9.9	7.6	7.5	50	0	0	0
100	14	15	10.2	10.0	7.8	8.3	2484	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.
 At 24 hours, there was a granular orange precipitate present on the bottom of the 100% v/v concentration tank.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 25 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.5 ± 0.1 g Length (Mean) +- SD : 4.02 ± 0.30 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.4 – 0.8 g Length (Range) : 3.60 – 4.50 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Nov 28, 2025
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.21 (0.04, 0.32)mg/L Statistical Method : Binomial
 Historical Mean LC50 (warning limits) : 0.24 (0.13, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Melanie Mazziotti, Melissa Thompson, Navpreet Shergill, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Dec 17, 2025 04:50 PM



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

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Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C600752
Client Project Name & Number: RBPO RBPT Toxicity Test Sample Number: DZE123-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Light orange with granular detritus

Sample Prior to Analysis:

Sample Collected: Jan 06, 2026 12:30 PM Sampling Method : Regular pH: 7.7
Sample Collected By: KR Site Collection: N/A Temperature : 20 °C
Sample Received: Jan 07, 2026 10:10 AM Volume Received: 2 x G1000 Dissolved Oxygen: 10.1 mg/L
Analysis Start : Jan 07, 2026 02:37 PM Avg Temp Arrival: 3 °C Sample Conductance: 2193 µS/cm
End : Jan 09, 2026 01:51 PM Storage: 2-6°C Hardness: 428 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (µS/cm)	Mortality (#)	Mortality (%)	Immobilty (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	20	9.0	9.1	8.1	8.1	351	0	0	0
0	19	20	9.0	9.1	8.1	8.1	351	0	0	0
0	19	20	9.0	9.1	8.1	8.1	351	0	0	0
100	20	20	9.6	9.0	7.8	8.1	2200	0	0	1
100	20	20	9.6	9.0	7.8	8.1	2200	0	0	0
100	20	20	9.6	8.9	7.8	8.0	2200	0	0	0

Comments :

Culture/Control/Dilution Water:

Reconstituted Water-Moderately Hard

Hardness: 104 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :

Daphnia magna

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs Average Brood Size : 34.5
Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 2.8
Culture Temperature : 20 ± 2 °C Time To First Brood : 8 Days
Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Jan 13, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.37 (0.13, 0.54)mg/L Statistical Method : Probit
Historical Mean LC50 (warning limits) : 0.54 (0.15, 1.91) mg/L Concentration : 0,0.038,0.078,0.41,0.824,4.08,8.3 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Ki Yeon Lee, Marie-Eve O'Toole, Melanie Mazziotti

Verified By : Melissa Thompson, Scientist

Date: Jan 20, 2026 03:21 PM

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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C600752
Client Project Name & Number: RBPO RBPT Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Yellow and cloudy Sample Number: DZE123-02
 Sample Collected: Jan 06, 2026 12:30 PM Sampling Method: Regular Site Collection: N/A
 Sample Collected By: KR Volume Received: 2 x ECO10 Avg Temp Arrival: 3 °C Storage: 2-6 °C
 Sample Received: Jan 07, 2026 10:10 AM pH: 7.7 Dissolved Oxygen: 10.4 mg/L
 Analysis Start: Jan 08, 2026 02:05 PM Temperature: 14 °C Sample Conductance: 2271 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	15	10.2	10.1	7.7	7.7	49	0	0	0
100	14	14	10.3	10.0	7.9	8.4	2261	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 22 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.5 ± 0.2 g Length (Mean) +- SD : 4.00 ± 0.34 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.8 g Length (Range) : 3.60 – 4.50 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Dec 31, 2025
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.28 (0.19, 0.45)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.24 (0.13, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Melanie Mazzotti, Navpreet Shergill, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Jan 20, 2026 03:26 PM

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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C603885
Client Project Name & Number: RBPO RBPT Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Opaque, orange Sample Number: DZT622-02
 Sample Collected: Jan 21, 2026 03:00 PM Sampling Method : Regular Site Collection: N/A
 Sample Collected By: GE Volume Received: 2 x ECO10 Avg Temp Arrival: 1 °C Storage: 2-6°C
 Sample Received: Jan 23, 2026 10:48 AM pH: 7.5 Dissolved Oxygen: 10.5 mg/L
 Analysis Start : Jan 26, 2026 01:45 PM Temperature : 16 °C Sample Conductance: 2248 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	15	15	10.0	10.0	7.6	7.7	52	0	0	0
100	16	15	10.0	9.9	7.8	8.5	2246	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 26 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.2 g Length (Mean) +- SD : 4.03 ± 0.41 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.4 – 0.8 g Length (Range) : 3.50 – 4.60 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Jan 24, 2026

Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.27 (0.20, 0.38)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 0.24 (0.12, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

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Analyst : Dayna Lee, Donald Lai, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Feb 03, 2026 09:28 AM

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VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C603885
 Client Project Name & Number: RBPO RBPT Toxicity Test Sample Number: DZT622-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Pale orange Sample Prior to Analysis:
 Sample Collected: Jan 21, 2026 03:00 PM Sampling Method : Regular pH: 7.5
 Sample Collected By: GE Site Collection: N/A Temperature : 19 °C
 Sample Received: Jan 23, 2026 10:48 AM Volume Received: 2 x G1000 Dissolved Oxygen: 10.8 mg/L
 Analysis Start : Jan 23, 2026 02:09 PM Avg Temp Arrival: 1 °C Sample Conductance: 2166 µS/cm
 End : Jan 25, 2026 02:13 PM Storage: 2-6°C Hardness: 440 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (µS/cm)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	20	9.3	9.2	8.0	8.0	333	0	0	0
0	19	19	9.3	9.2	8.0	8.0	333	0	0	0
0	19	19	9.3	9.2	8.0	8.0	333	0	0	0
100	19	19	9.9	9.2	7.7	8.0	2158	0	0	0
100	19	20	9.9	9.2	7.7	8.0	2158	0	0	0
100	19	20	9.9	9.2	7.7	8.0	2158	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing**Culture/Control/Dilution Water:**

Reconstituted Water-Moderately Hard

Hardness: 92 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
 Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
 Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
 Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs Average Brood Size : 37.3
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 1.4
 Culture Temperature : 20 ± 2 °C Time To First Brood : 7 Days
 Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Jan 27, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) : 1.04 (0.67, 2.00)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.51 (0.15, 1.77) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee, Ki Yeon Lee

Verified By : Melissa Thompson, Scientist

Date: Feb 03, 2026 10:27 AM

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VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C605808
 Client Project Name & Number: RBPO RBPT Toxicity Test Sample Number: EAE878-01

Test Result:

48 hrs Mortality % 10.0 Statistical Method: Visual

Mean percent mortality: Sample 10 Control 0

Sample Name : RBPO

Description: Beige, granular detritus

Sample Prior to Analysis:

Sample Collected: Feb 02, 2026 03:30 PM

Sampling Method : Regular

pH: 7.5

Sample Collected By: 4

Site Collection: N/A

Temperature : 20 °C

Sample Received: Feb 03, 2026 09:50 AM

Volume Received: 2 x G1000

Dissolved Oxygen: 9.5 mg/L

Analysis Start : Feb 03, 2026 03:25 PM

Avg Temp Arrival: 4 °C

Sample Conductance: 1994 µS/cm

End : Feb 05, 2026 03:40 PM

Storage: 2-6 °C

Hardness: 400 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (µS/cm)	Immobility (#)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	24 hrs	48 hrs	48 hrs	48 hrs
0	19	20	9.2	8.9	8.1	8.0	344	0	0	0	0
0	19	20	9.2	8.9	8.1	7.9	344	0	0	0	0
0	19	20	9.2	8.9	8.1	8.0	344	0	0	0	0
100	20	20	9.3	8.9	7.7	8.0	1989	0	1	10.0	0
100	20	20	9.3	8.9	7.7	8.1	1989	0	1	10.0	0
100	20	20	9.3	9.0	7.7	8.1	1989	0	1	10.0	0

Comments : At test completion, all the surviving daphnids were covered in precipitate.**Culture/Control/Dilution Water:**

Reconstituted Water-Moderately Hard

Hardness:

96 mg/L CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10

Pre-aeration Time : 30 min

Rate of Pre-aeration : 25-50 mL/(min*L)

Total # of Organisms Used : 60

Test Temperature : 20 ± 2 °C

Test Hardness Adjusted : No

Test Volume : 185 mL

Vessel Volume : 200 mL

Test pH Adjusted: No

Loading Density :

18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation :

<24 hrs

Average Brood Size : 31.2

Culture Photoperiod :

16:8 (light: dark)

% Mortality within 7 days : 0

Culture Temperature :

20 ± 2 °C

Time To First Brood : 7 Days

Culture Diet

4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date:

Jan 27, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) :

1.04 (0.67, 2.00)mg/L

Statistical Method :

Probit

Historical Mean LC50 (warning limits) :

0.51 (0.15, 1.77) mg/L

Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations:

None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Ki Yeon Lee, Navpreet Shergill

Verified By : Melissa Thompson, Scientist

Date: Feb 13, 2026 09:44 AM

BUREAU
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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C605808
Client Project Name & Number: RBPO RBPT Toxicity Test

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Orange, opaque Sample Number: EAE878-02
 Sample Collected: Feb 02, 2026 03:30 PM Sampling Method : Regular Site Collection: N/A
 Sample Collected By: N/A Volume Received: 2 x ECO10 Avg Temp Arrival: 4 °C Storage: 2-6°C
 Sample Received: Feb 03, 2026 09:50 AM pH: 7.5 Dissolved Oxygen: 9.9 mg/L
 Analysis Start : Feb 03, 2026 02:40 PM Temperature : 15 °C Sample Conductance: 2079 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	15	15	10.3	10.0	7.8	7.6	55	0	0	0
100	15	14	10.0	9.9	7.6	8.4	2082	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 22 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.2 g Length (Mean) +- SD : 3.99 ± 0.33 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.8 g Length (Range) : 3.40 – 4.40 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0.0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Jan 24, 2026
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.27 (0.20, 0.38)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.24 (0.12, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee

Verified By : Melissa Thompson, Scientist

Date: Feb 13, 2026 03:29 PM



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

BUREAU
VERITAS

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C607497
Client Project Name & Number: RBPO RBPT TOXICITY TEST Sample Number: EAP902-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Yellow Sample Prior to Analysis:
Sample Collected: Feb 09, 2026 Sampling Method : Regular pH: 7.5
Sample Collected By: GE Site Collection: N/A Temperature : 20 °C
Sample Received: Feb 11, 2026 09:20 AM Volume Received: 2 x G1000 Dissolved Oxygen: 10.2 mg/L
Analysis Start : Feb 11, 2026 03:07 PM Avg Temp Arrival: 2 °C Sample Conductance: 1998 µS/cm
End : Feb 13, 2026 03:57 PM Storage: 2-6°C Hardness: 416 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	19	20	9.0	8.9	8.0	8.1	340	0	0	0
0	19	20	9.0	8.9	8.0	8.1	340	0	0	0
0	19	20	9.0	8.9	8.0	8.1	340	0	0	0
100	19	20	9.3	9.0	7.9	8.0	2010	0	0	0
100	19	20	9.3	9.0	7.9	8.0	2010	0	0	0
100	19	20	9.3	8.9	7.9	8.1	2010	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing

Culture/Control/Dilution Water:

Reconstituted Water-Moderately Hard

Hardness: 96 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :

Daphnia magna

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs Average Brood Size : 26.4
Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 4.2
Culture Temperature : 20 ± 2 °C Time To First Brood : 7 Days
Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Feb 14, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) : 1.58 (1.13, 2.21)mg/L Statistical Method : Untrimmed Spearman-Kärber

Historical Mean LC50 (warning limits) : 0.56 (0.15, 2.14) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C607497
Client Project Name & Number: RBPO RBPT TOXICITY TEST **Sample Number:** EAP902-01

Analyst : Dayna Lee, Kimberly Tamaki, Navpreet Shergill

A handwritten signature in black ink, appearing to be 'M. Thompson', written over a horizontal line.

Verified By : Melissa Thompson, Scientist

Date: Feb 24, 2026 08:44 AM

BUREAU
VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C607497
Client Project Name & Number: RBPO RBPT TOXICITY TEST

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Yellow, cloudy **Sample Number:** EAP902-02
Sample Collected: Feb 09, 2026 **Sampling Method :** Regular **Site Collection:** N/A
Sample Collected By: GE **Volume Received:** 2 x ECO10 **Avg Temp Arrival:** 2 °C **Storage:** 2-6°C
Sample Received: Feb 11, 2026 09:20 AM **pH:** 7.5 **Dissolved Oxygen:** 10.4 mg/L
Analysis Start : Feb 12, 2026 12:10 PM **Temperature :** 14 °C **Sample Conductance:** 2077 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	14	10.2	9.8	7.6	7.6	47	0	0	0
100	14	14	10.2	9.8	7.8	8.4	2075	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 26 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 **Test Temperature :** 15 ± 1 °C **Solution Depth :** >15 cm
Total # of Organisms Used : 20 **Pre-aeration Time :** 120 min. **Rate of Aeration** 6.5±1 mL/ (min*L)
Test Volume : 15 L **Vessel Volume :** 20L **Test pH Adjusted:** No
Loading Density : 0.3 g/L **Photoperiod :** 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*)

Source : Aqua Farm

Culture Temperature : 15 ± 2 °C **Weight (Mean) +- SD :** 0.5 ± 0.1 g **Length (Mean) +- SD :** 3.84 ± 0.41 cm
Culture Water Renewal : ≥ 1L/min/kg fish **Weight (Range) :** 0.3 – 0.7 g **Length (Range) :** 3.10 – 4.30 cm
Culture Photoperiod : 16:8 (light: dark) **% Mortality within 7 days :** 0.35%
Feeding rate and frequency : daily: 1-5% biomass of trout. **Acclimation Time:** >14 days

Reference chemical:

Zinc

Test Date:

Feb 06, 2026

Test Endpoint 96 hrs LC50 (95% confidence interval) :

0.27 (0.20, 0.39)mg/L

Statistical Method :

Probit

Historical Mean LC50 (warning limits) :

0.24 (0.13, 0.46) mg/L

Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations :

None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Melanie Mazzioti, Melissa Thompson, Navpreet Shergill, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Feb 24, 2026 10:15 AM

BUREAU
VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C610553
Client Project Name & Number: RBPO Toxicity, Daphnia&Rain. Trout

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO-24FEB26-M

Description: Pale yellow, opaque Sample Number: EBI199-02
 Sample Collected: Feb 24, 2026 Sampling Method : Regular Site Collection: N/A
 Sample Collected By: KR Volume Received: 2 x ECO10 Avg Temp Arrival: 4 °C Storage: 2-6°C
 Sample Received: Feb 26, 2026 01:25 PM pH: 7.5 Dissolved Oxygen: 10.2 mg/L
 Analysis Start : Feb 27, 2026 01:53 PM Temperature : 15 °C Sample Conductance: 2024 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	15	15	10.2	9.9	7.7	7.8	47	0	0	0
100	15	15	10.1	9.8	7.7	8.4	2023	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 23 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration 6.5±1 mL/ (min*L)
 Test Volume : 18 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.4 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.7 ± 0.1 g Length (Mean) +- SD : 4.44 ± 0.33 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.5 – 0.9 g Length (Range) : 3.70 – 4.90 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 1.18%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Feb 06, 2026
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.27 (0.20, 0.39)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.24 (0.13, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee, Navpreet Shergill, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Mar 10, 2026 08:36 AM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C610553
 Client Project Name & Number: RBPO Toxicity, Daphnia&Rain. Trout Sample Number: EBI199-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO-24FEB26-M

Description: Pale yellow
 Sample Collected: Feb 24, 2026 Sampling Method : Regular pH: 7.6
 Sample Collected By: KR Site Collection: N/A Temperature : 19 °C
 Sample Received: Feb 26, 2026 01:25 PM Volume Received: 2 x ECO1 Dissolved Oxygen: 9.5 mg/L
 Analysis Start : Feb 27, 2026 05:04 PM Avg Temp Arrival: 4 °C Sample Conductance: 2000 µS/cm
 End : Mar 01, 2026 04:13 PM Storage: 2-6°C Hardness: 396 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Immobility (#)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	24 hrs	48 hrs	48 hrs	48 hrs
0	20	19	9.0	8.9	8.1	8.0	331	0	0	0	0
0	20	19	9.0	8.9	8.1	8.0	331	0	0	0	0
0	20	19	9.0	9.1	8.1	8.0	331	0	0	0	0
100	20	20	9.2	8.9	7.8	8.0	1978	0	0	0	0
100	20	20	9.2	8.9	7.8	7.9	1978	0	0	0	10
100	20	20	9.2	9.0	7.8	8.0	1978	0	0	0	10

Comments :

Culture/Control/Dilution Water: Reconstituted Water-Moderately Hard
 Hardness: 96 mg/L CaCO₃ Other parameters available on request.

Test Conditions Test concentration : 0,0,0,100,100,100 (% vol/vol)
 Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
 Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
 Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
 Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism : *Daphnia magna* Source : Aquatic Biosystems
 Age at Test Initiation : <24 hrs Average Brood Size : 30.3
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0
 Culture Temperature : 20 ± 2 °C Time To First Brood : 8 Days
 Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical: Zinc Test Date: Feb 24, 2026
 Test Endpoint 48 hrs LC50 (95% confidence interval) : 1.05 (0.64, 1.87)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.64 (0.17, 2.35) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.
 Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Dayna Lee, Marie-Eve O'Toole, Melanie Mazziotti, Navpreet Shergill

Verified By : Melissa Thompson, Scientist

Date: Mar 10, 2026 10:56 AM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C611548
 Client Project Name & Number: RBPO TOXICITY, DAPHNIA&RAIN. TROUT Sample Number: EBP932-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO-2MAR26-M

Description: Pale yellow, clear

Sample Prior to Analysis:

Sample Collected: Mar 02, 2026 09:00 AM Sampling Method : Regular pH: 7.7
 Sample Collected By: BOR Site Collection: N/A Temperature : 19 °C
 Sample Received: Mar 04, 2026 10:25 AM Volume Received: 2 x G1000 Dissolved Oxygen: 9.9 mg/L
 Analysis Start : Mar 04, 2026 03:23 PM Avg Temp Arrival: 2 °C Sample Conductance: 1941 µS/cm
 End : Mar 06, 2026 04:03 PM Storage: 2-6°C Hardness: 400 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	48 hrs	48 hrs
0	20	20	8.9	8.9	8.0	8.1	337	0	0	0
0	20	20	8.9	8.9	8.0	8.1	337	0	0	0
0	20	20	8.9	8.9	8.0	8.1	337	0	0	0
100	20	21	9.5	8.8	7.9	8.1	1947	0	0	0
100	20	20	9.5	8.8	7.9	8.1	1947	0	0	0
100	20	21	9.5	8.8	7.9	8.1	1947	0	0	0

Comments : All neonates appeared and behaved normally at 24 hours and 48 hours into testing**Culture/Control/Dilution Water:**

Reconstituted Water-Moderately Hard

Hardness: 96 mg/L CaCO₃ Other parameters available on request.**Test Conditions**

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 Pre-aeration Time : 30 min Rate of Pre-aeration : 25-50 mL/(min*L)
 Total # of Organisms Used : 60 Test Temperature : 20 ± 2 °C Test Hardness Adjusted : No
 Test Volume : 185 mL Vessel Volume : 200 mL Test pH Adjusted: No
 Loading Density : 18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs Average Brood Size : 25.9
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0
 Culture Temperature : 20 ± 2 °C Time To First Brood : 11 Days
 Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Feb 24, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.53 (0.29, 0.86)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 0.62 (0.16, 2.37) mg/L Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Ki Yeon Lee, Marie-Eve O'Toole, Navpreet Shergill

Verified By : Melissa Thompson, Scientist

Date: Mar 10, 2026 05:18 PM

BUREAU
VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C611548
Client Project Name & Number: RBPO TOXICITY, DAPHNIA&RAIN. TROUT

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO-2MAR26-M

Description: Pale yellow and cloudy. Sample Number: EBP932-02
 Sample Collected: Mar 02, 2026 09:00 AM Sampling Method : Regular Site Collection: N/A
 Sample Collected By: BOR Volume Received: 2 x ECO10 Avg Temp Arrival: 2 °C Storage: 2-6°C
 Sample Received: Mar 04, 2026 10:25 AM pH: 7.7 Dissolved Oxygen: 10.5 mg/L
 Analysis Start : Mar 05, 2026 01:40 PM Temperature : 13 °C Sample Conductance: 2056 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	14	10.3	10.1	7.7	7.7	49	0	0	0
100	14	15	10.3	9.9	7.9	8.4	2053	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 22 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 120 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 15 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.4 ± 0.1 g Length (Mean) +- SD : 3.79 ± 0.23 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.5 g Length (Range) : 3.40 – 4.10 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0.07%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Feb 20, 2026
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.15 (0.12, 0.19)mg/L Statistical Method : Untrimmed Spearman-Kärber
 Historical Mean LC50 (warning limits) : 0.25 (0.13, 0.46) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Melanie Mazziotti, Melissa Thompson, Navpreet Shergill, Nayshan Blassnitz

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology

Date: Mar 17, 2026 02:48 PM

BUREAU
VERITASRESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C615067
 Client Project Name & Number: RBPO RBPT TOXICITY TEST Sample Number: ECK143-01

Test Result:

48 hrs Mortality % 0 Statistical Method: Visual

Mean percent mortality: Sample 0 Control 0

Sample Name : RBPO

Description: Clear, pale yellow

Sample Prior to Analysis:

Sample Collected: Mar 18, 2026 08:30 AM

Sampling Method : Grab

pH: 7.4

Sample Collected By: KR

Site Collection: N/A

Temperature : 18 °C

Sample Received: Mar 19, 2026 11:05 AM

Volume Received: 2 x G1000

Dissolved Oxygen: 9.6 mg/L

Analysis Start : Mar 20, 2026 03:48 PM

Avg Temp Arrival: 6 °C

Sample Conductance: 2020 µS/cm

End : Mar 22, 2026 02:59 PM

Storage: 2-6°C

Hardness: 420 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (µS/cm)	Immobility (#)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	24 hrs	48 hrs	48 hrs	48 hrs
0	20	20	9.0	9.1	8.2	8.1	340	0	0	0	0
0	20	20	9.0	9.0	8.2	8.0	340	0	0	0	0
0	20	20	9.0	9.0	8.2	8.1	340	0	0	0	0
100	19	20	8.9	8.9	7.6	8.3	2023	0	0	0	0
100	19	20	8.9	8.9	7.6	8.2	2023	0	0	0	2
100	19	20	8.9	9.0	7.6	8.1	2023	0	0	0	1

Comments : At 48 hours, there was a precipitate at the bottom of the test vessels in replicates B and C of the 100% v/v concentration and the non-immobilized daphnids were not actively swimming.

Culture/Control/Dilution Water:

Reconstituted Water-Moderately Hard

Hardness:

96 mg/L CaCO₃

Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel :

10

Pre-aeration Time :

30 min

Rate of Pre-aeration :

25-50 mL/(min*L)

Total # of Organisms Used :

60

Test Temperature :

20 ± 2 °C

Test Hardness Adjusted :

No

Test Volume :

185 mL

Vessel Volume :

200 mL

Test pH Adjusted:

No

Loading Density :

18.5 mL/Daphnia Photoperiod : 16:8 (light: dark)

Test Organism :*Daphnia magna*

Source : Aquatic Biosystems

Age at Test Initiation :

<24 hrs

Average Brood Size :

38.0

Culture Photoperiod :

16:8 (light: dark)

% Mortality within 7 days :

1.3

Culture Temperature :

20 ± 2 °C

Time To First Brood :

7 Days

Culture Diet

4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date:

Mar 10, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) :

0.25 (0.20, 0.31)mg/L

Statistical Method :

Untrimmed
Spearman-
Kärber

Historical Mean LC50 (warning limits) :

0.64 (0.17, 2.33) mg/L

Concentration : 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations:

None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C615067
Client Project Name & Number: RBPO RBPT TOXICITY TEST **Sample Number:** ECK143-01

Analyst : Ki Yeon Lee, Kimberly Tamaki, Navpreet Shergill

A handwritten signature in black ink, likely belonging to the analyst, written over a horizontal line.

Verified By : Melissa Thompson, Scientist

Date: Mar 31, 2026 01:28 PM

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VERITAS

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C615067
Client Project Name & Number: RBPO RBPT TOXICITY TEST

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : RBPO

Description: Pale yellow Sample Number: ECK143-02
 Sample Collected: Mar 18, 2026 08:30 AM Sampling Method : Grab Site Collection: N/A
 Sample Collected By: KR Volume Received: 2 x ECO10 Avg Temp Arrival: 7 °C Storage: 2-6°C
 Sample Received: Mar 19, 2026 11:05 AM pH: 7.5 Dissolved Oxygen: 10.2 mg/L
 Analysis Start : Mar 20, 2026 01:17 PM Temperature : 14 °C Sample Conductance: 2092 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	14	14	10.5	9.7	7.6	7.5	48	0	0	0
100	14	14	10.2	9.8	7.6	8.4	2091	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 23 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 18 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.2 g Length (Mean) +- SD : 4.26 ± 0.32 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.4 – 0.8 g Length (Range) : 3.80 – 4.70 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Mar 12, 2026
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.20 (0.17, 0.23)mg/L Statistical Method : Untrimmed Spearman-Kärber
 Historical Mean LC50 (warning limits) : 0.24 (0.13, 0.47) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Donald Lai, Melissa Thompson, Navpreet Shergill, Nayshan Blassnitz

Verified By : Melissa Thompson, Scientist

Date: Apr 03, 2026 11:13 AM



RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C617365
Client Project Name & Number: RBPO RBPTS TOXICITY TEST

Test Result:

96 hrs Mortality % 0 **Statistical Method:** Visual

Sample Name : RBPO **Sample Matrix :** Waste Water
Description: Yellow, Hazy **Sample Number:** ECX268-02
Sample Collected: Mar 30, 2026 01:00 PM **Sampling Method :** N/A **Site Collection:** N/A
Sample Collected By: BOR **Volume Received:** 20 L **Avg Temp Arrival:** 2 °C **Storage:** 2-6°C
Sample Received: Apr 01, 2026 09:33 AM **pH:** 7.3 **Dissolved Oxygen:** 9.2 mg/L
Analysis Start : Apr 03, 2026 09:00 AM **Temperature :** 15 °C **Sample Conductance:** 1990 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	Start	Start	Start	Start	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	15	8.0	408	9.0	0	0	0	0	0	0	0	0
100	15	7.5	1962	9.2	0	0	0	0	0	0	0	0

Concentration	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hr	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	15	8.2	416	8.9	0	0	0	0
100	0	0	0	0	16	8.1	1922	8.3	0	0	0	0

Comments : None

Culture/Control/Dilution Water

City of Edmonton dechlorinated tap water

Hardness: 200 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 **Test Temperature :** 15 ± 1 °C **Solution Depth :** >15 cm
Total # of Organisms Used : 20 **Pre-aeration Time :** 30 min. **Rate of Aeration** 6.5±1 mL/ (min*L)
Test Volume : 20 L **Vessel Volume :** 38L **Test pH Adjusted:** No
Loading Density : 0.4 g/L **Photoperiod :** 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) **Source :** LSL Trout Hatchery

Culture Temperature : 15 ± 2 °C **Weight (Mean) +- SD :** 0.8 ± 0.2 g **Length (Mean) +- SD :** 4.43 ± 0.40 cm
Culture Water Renewal : ≥ 1.0 L/min/kg fish **Weight (Range) :** 0.5 – 1.1 g **Length (Range) :** 3.40 – 4.80 cm
Culture Photoperiod : 16:8 (light: dark) **% Mortality within 7 days :** 0%
Feeding rate and frequency : daily: 1-5% biomass of trout. **Acclimation Time:** >14 days

Reference chemical:

Phenol **Test Date:** Mar 14, 2026

Test Endpoint 96 hrs LC50 (95% confidence interval) : 8.50 (<7.59, 10.6)mg/L **Statistical Method :** Untrimmed Spearman-Kärber

Historical Mean LC50 (warning limits) : 9.53 (7.21, 12.6) mg/L **Concentration :** 0,7.59,9.15,11,13.3,16 mg/L

Test Method

EPS 1/RM/13

Method Deviations : None

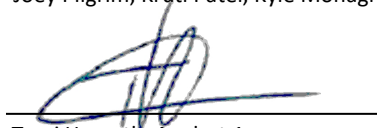
Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C617365
Client Project Name & Number: RBPO RBPTS TOXICITY TEST **Sample Number:** ECX268-02

Analyst : Joey Pilgrim, Kruti Patel, Kyle Monaghan, Maninder Brar

Verified By : 
Tami Horvath, Analyst 1

Date: Apr 08, 2026 09:19 AM



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C617365
Client Project Name & Number: RBPO RBPTS TOXICITY TEST **Sample Number:** ECX268-01

Test Result:

48 hrs Mortality % 6.67 **Statistical Method:** Visual

Mean percent mortality: Sample 6.67 Control 0

Sample Name : RBPO

Description: Pale yellow, clear **Sample Prior to Analysis:**
Sample Collected: Mar 30, 2026 01:00 PM **Sampling Method :** N/A **pH:** 7.6
Sample Collected By: BOR **Site Collection:** N/A **Temperature :** 20 °C
Sample Received: Apr 01, 2026 09:33 AM **Volume Received:** 2 x ECO1 **Dissolved Oxygen:** 9.6 mg/L
Analysis Start : Apr 02, 2026 09:13 AM **Avg Temp Arrival:** 2 °C **Sample Conductance:** 2075 µS/cm
End : Apr 04, 2026 09:31 AM **Storage:** 2-6°C **Hardness:** 460 mg CaCO₃/L

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	pH	pH	Conductivity (uS/cm)	Immobility (#)	Mortality (#)	Mortality (%)	Immobility (#)
% vol/vol	Initial	48 hrs	Initial	48 hrs	Initial	48 hrs	Initial	24 hrs	48 hrs	48 hrs	48 hrs
0	19	19	9.0	8.6	8.2	8.0	342	0	0	0	0
0	19	20	9.0	8.8	8.2	8.1	342	0	0	0	0
0	19	20	9.0	8.7	8.2	8.0	342	0	0	0	0
100	19	20	9.2	8.7	7.8	8.0	2081	0	1	10.0	2
100	19	20	9.2	8.7	7.8	8.0	2081	0	0	0	0
100	19	20	9.2	8.8	7.8	8.0	2081	0	1	10.0	2

Comments : At test completion, the surviving daphnids in the 100% v/v concentration were moving very slowly.

Culture/Control/Dilution Water:

Reconstituted Water-Moderately Hard

Hardness: 100 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,0,0,100,100,100 (% vol/vol)

Organisms per Vessel : 10 **Pre-aeration Time :** 30 min **Rate of Pre-aeration :** 25-50 mL/(min*L)
Total # of Organisms Used : 60 **Test Temperature :** 20 ± 2 °C **Test Hardness Adjusted :** No
Test Volume : 185 mL **Vessel Volume :** 200 mL **Test pH Adjusted:** No
Loading Density : 18.5 mL/Daphnia **Photoperiod :** 16:8 (light: dark)

Test Organism :

Daphnia magna

Source : Aquatic Biosystems

Age at Test Initiation : <24 hrs **Average Brood Size :** 29.6
Culture Photoperiod : 16:8 (light: dark) **% Mortality within 7 days :** 3.1
Culture Temperature : 20 ± 2 °C **Time To First Brood :** 8 Days
Culture Diet 4 mL algae + 1 mL YCT; Sun. 2 mL algae + 0.5 mL YCT.

Reference chemical:

Zinc

Test Date: Mar 25, 2026

Test Endpoint 48 hrs LC50 (95% confidence interval) : 0.50 (0.36, 0.70)mg/L **Statistical Method :** Untrimmed Spearman-Kärber

Historical Mean LC50 (warning limits) : 0.61 (0.16, 2.37) mg/L **Concentration :** 0,0.05,0.1,0.5,1,5,10 mg/L

Test Method

BV Labs' BBY2SOP-00007 is based on the latest version of EPS 1/RM/14.

Method Deviations: None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.



RESULTS OF *DAPHNIA MAGNA* SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative **Job Number:** C617365
Client Project Name & Number: RBPO RBPTS TOXICITY TEST **Sample Number:** ECX268-01

Analyst : Ki Yeon Lee, Kimberly Tamaki, Melissa Thompson

A handwritten signature in black ink, appearing to read 'Melissa Thompson', written over a horizontal line.

Verified By : Melissa Thompson, Scientist

Date: Apr 08, 2026 12:16 PM

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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C584046
Client Project Name & Number: QCC QUINSAM-WD AND SPD

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : SPD

Description: Clear, light yellow Sample Number: DUJ275-01
 Sample Collected: Oct 06, 2025 Sampling Method: Regular Site Collection: N/A
 Sample Collected By: BOR Volume Received: 2 x ECO10 Avg Temp Arrival: 1 °C Storage: 2-6°C
 Sample Received: Oct 07, 2025 09:43 AM pH: 7.7 Dissolved Oxygen: 9.9 mg/L
 Analysis Start: Oct 08, 2025 01:15 PM Temperature: 15 °C Sample Conductance: 893 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	15	15	10.1	9.8	7.6	7.5	51	0	0	0
100	15	15	9.9	9.8	7.8	8.0	893	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 24 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/(min*L)
 Test Volume : 18 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.1 g Length (Mean) +- SD : 4.15 ± 0.32 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.8 g Length (Range) : 3.50 – 4.60 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Sep 29, 2025

Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.37 (0.26, 0.58)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 0.19 (0.09, 0.41) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Larissa dos Santos Soares, Melanie Mazziotti

Verified By : Melissa Thompson, Scientist

Date: Oct 19, 2025 08:30 PM

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RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 13210 The Bowra Group Inc., Contractor for Province of BC as MEMPR Representative Job Number: C584046
Client Project Name & Number: QCC QUINSAM-WD AND SPD

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : WD

Description: Clear, light yellow Sample Number: DUJ274-01
 Sample Collected: Oct 06, 2025 Sampling Method: Regular Site Collection: N/A
 Sample Collected By: BOR Volume Received: 2 x ECO10 Avg Temp Arrival: 1 °C Storage: 2-6°C
 Sample Received: Oct 07, 2025 09:43 AM pH: 7.9 Dissolved Oxygen: 9.5 mg/L
 Analysis Start: Oct 08, 2025 01:15 PM Temperature: 15 °C Sample Conductance: 1531 µS/cm

Concentration	Temperature (°C)	Temperature (°C)	Dissolved Oxygen (mg/L)		pH		Conductivity (uS/cm)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)
% vol/vol	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	Initial	96 hrs	96 hrs	96 hrs
0	15	15	10.1	9.8	7.6	7.5	51	0	0	0
100	15	15	9.6	9.7	7.9	8.3	1531	0	0	0

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water

Hardness: 24 mg/L CaCO₃ Other parameters available on request.

Test Conditions

Test concentration : 0,100 (% vol/vol)

Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
 Total # of Organisms Used : 20 Pre-aeration Time : 30 min. Rate of Aeration : 6.5±1 mL/ (min*L)
 Test Volume : 18 L Vessel Volume : 20L Test pH Adjusted: No
 Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism :

Rainbow Trout (*Oncorhynchus mykiss*) Source : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.1 g Length (Mean) +- SD : 4.15 ± 0.32 cm
 Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.3 – 0.8 g Length (Range) : 3.50 – 4.60 cm
 Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
 Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical:

Zinc Test Date: Sep 29, 2025
 Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.37 (0.26, 0.58)mg/L Statistical Method : Probit
 Historical Mean LC50 (warning limits) : 0.19 (0.09, 0.41) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method

BV Lab's BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.

Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Larissa dos Santos Soares, Melanie Mazziotti

Verified By : Melissa Thompson, Scientist

Date: Oct 19, 2025 08:27 PM

APPENDIX V – ENV Compliance Review Records



Report Date: March 10, 2026

File: 7008

Report Number: 249132

Quinsam Coal Corporation
950-1090 West Georgia Street
Vancouver BC V6E 3V7

Dear Quinsam Coal Corporation,

Re: Warning Letter

On March 10, 2026, Ministry of Environment and Parks (Ministry) Officer Kelly Mills conducted an office review inspection of Quinsam Coal Corporation's (QCC) coal mine, an underground coal mine (the Site) located at 5800 Argonaut Main, Campbell River, BC, to verify compliance with Environmental Management Act (EMA) and EMA Permit 7008 (the Permit). The Permit authorizes the discharge of effluent from a coal mining operation and coal preparation plant to the land with overland flows draining to Middle Quinsam Lake, Long Lake, Iron River, and Quinsam River, subject to the conditions of the Permit. The Permit was issued on December 23, 1987, and most recently amended on February 6, 2024.

This inspection also includes findings of a Split Sample Audit that was conducted on the discharge from settling pond one (E218582) during the previous inspection (inspection report 208197), conducted January 18, 2024. This Split Sample Audit consisted of a comparison of the permittee's and Ministry's sampling and analytical procedures and results collected from a homogenized sample. The audit was conducted to provide further validity to the monitoring data provided by the permittee, beyond that of their own QA/QC program. The results of this audit were a pass with a performance evaluation of 91%.

Failure to comply with the requirements set out in the Permit is an offence. The applicable offence section(s) of the *Environmental Management Act (EMA)* and/or its regulations state(s) as follows:

EMA 120 (3) A person who contravenes any of the following commits an offence and is liable on conviction to a fine not exceeding \$1000000 or imprisonment for not more than 6 months, or both:

- (a) section 6 (2), (3) or (4) [waste disposal];*
- (b) section 7 (1) or (2) [hazardous waste confinement];*
- (c) section 8 [hazardous waste disposal facility];*
- (d) section 9 (1) or (4) [hazardous waste storage and disposal];*
- (e) section 76.2 [management of greenhouse gases at waste management facilities];*

EMA 120 (6) A person who, holding a permit or approval issued to the person under this Act to introduce waste into the environment, introduces waste into the environment without having complied with the requirements of the permit or approval commits an offence and is liable on conviction to a fine not exceeding \$1000000 or imprisonment for not more than 6 months, or both.

As an alternative to prosecution of the offence referenced above, the Ministry may initiate action to impose an administrative penalty against Quinsam Coal Corporation. The Administrative Penalties Regulation (EMA) (B.C. Reg. 133/2014) (APR) was brought into force in 2014. The APR describes the prescribed provisions of EMA as well as that of specified regulations under which administrative penalties can be assigned. The applicable section(s) of the APR state(s) as follows:

12 (1) A person who contravenes section 6 (2), (3) or (4), 7, 8, 9 (1) or (4), 11, 25 (2), 40 (1), (2), (6) or (7), 40.1 (2), 48 (8), (10) or (15), 55 (1.1) or (1.3), 55.1 (2), 72 (1) or (2), 76.2, 91.11 (1) (a) or (4), 91.2 (2) or 91.41 (4) of the Act is liable to an administrative penalty not exceeding \$75 000.

**Ministry of Environment
and Climate Change
Strategy**

Compliance and
Environmental
Enforcement Branch

Mailing Address:
2080-A
Labieux Rd
Nanaimo BC V9T 6J9

Telephone: 250 751 3100
Facsimile: 250 751 3103
Website: www.gov.bc.ca/env

12 (5) A person who fails to comply with a requirement of a permit or approval issued or given under the Act is liable to an administrative penalty not exceeding \$40 000, unless the requirement the person failed to comply with is also a prescribed provision of the Act or the regulations that is subject to a different maximum administrative penalty.

The Ministry requests that Quinsam Coal Corporation immediately implement the necessary changes or modifications to correct the non-compliance(s) listed below. Further, the Ministry requests that Quinsam Coal Corporation notify this office in writing, by email or letter within 30 days of the receipt of this letter, advising what corrective measures have been taken, and what else is being done, to prevent similar non-compliances in the future.

Please submit the response to the Ministry's Compliance Mailbox at: EnvironmentalCompliance@gov.bc.ca.

As a result of this Warning, this authorization will be prioritized for follow-up inspection. The corrective measures will be reviewed by an Officer as part of the next inspection.

Finally, if you fail to take the necessary actions to restore compliance, you may be subject to escalating enforcement action. This Warning Letter and the alleged violations and circumstances to which it refers, will form part of the compliance history of Quinsam Coal Corporation and will be taken into account in the event of future violations.

Inspection Details:

The Inspection Period for this report is from April 1, 2023, to March 31, 2025 (Inspection Period). It is acknowledged that part of the Inspection Period precedes the most recent amendment, and any changes have been accounted for in the Details/Findings for the relevant permit clauses below. This inspection included review of the following documents:

- Quinsam Coal Corporation Quarterly Report (April June 2023) (2023 Q1 Report)
- Quinsam Coal Corporation Q2 (July September 2023) (2023 Q2 Report)
- PE:7008 Quarter 3 Report, October December 2023 (2023 Q3 Report)
- PE:7008 Quinsam Coal Annual Water Quality Monitoring Report 2023-2024, dated June 2024 (2023-2024 Annual Report)
- Quinsam Coal Corporation Quarterly Report (April June 2024) (2024 Q1 Report)
- Quinsam Coal Corporation Q2 (July September 2024) (2024 Q2 Report)
- PE:7008 Quinsam Coal Annual Water Quality Monitoring Report 2024-2025, dated June 2025 (2024-2025 Annual Report)

Overview of Site activity During the Inspection Period

QCC filed for bankruptcy on July 31, 2019, and the site is currently managed by court appointed receiver MNP Ltd. (MNP). In May 2024, the Treasury Board approved and formalized statutory spending under Section 17 of the Mines Act to conduct work to limit health, safety and environmental risks at the Site. A detailed overview of this de-risking program is contained in Attachment 1. The following program components are of particular relevance to the Permit and EMA:

1. 7-South Test Flood

In 2024 the 7-South underground workings was allowed to flood with water. This flooding is associated with increased discharge of seepage effluent in the surrounding area.

2. 2-North Passive Dewatering Test

The water management for the 2-North portion of the underground mine historically required pumping of water from multiple underground locations. Work was undertaken in 2025 to establish a permanent passive discharge from the underground mine to the Quinsam River. As part of this process, two new discharges were established from dewatering wells (River Barrier Pillar wells). These wells discharge effluent from the 2-North portion of the underground mine to the Quinsam River via a mine pool, ditching, and water management structures. A backup pump system allows effluent from the wells to be pumped to Settling Pond #4 (authorized works in Permit section 1.1.3) if effluent quality deteriorates.

This summary is for informational purposes only. This de-risking program is being managed by MNP under the authority of the Chief Inspector of Mines acting under section 17 of the Mines Act. At this time, a compliance assessment of seeps potentially associated with the 2-North and 7-South underground workings, as well as new discharges and works arising from the de-risking program, has not been included.

Compliance Assessment

Below are the requirements that were assessed for compliance during this inspection, as well as the associated details/findings and any actions required.

Requirement Description:

Environmental Management Act, Environmental Management Act

6 (2): Subject to subsection (5), a person must not introduce or cause or allow waste to be introduced into the environment in the course of conducting a prescribed industry, trade or business.

Details/Findings:

Prescribed industry, trade, or business (EMA 6 (2))

The mining and coal mining industry is listed in Schedule 1 of the Waste Discharge Regulation (WDR) as a prescribed industry. The WDR defines this industry as establishments engaged in the mining of, or activities related to the mining of, metals, non-metals, coal, gemstones, or industrial mineral ores, including the beneficiation of mineral ores. Facilities conducting these activities are required to hold an authorization for any discharges of effluent to the environment.

Presence of waste and introduction of waste into the environment

As documented in inspection reports 208197 and 198616, two bedrock groundwater seeps convey mine impacted water from the 2-3 South mine pool at the Site and discharge into Long Lake. These two seeps are called Long Lake Seep (LLS) and Long Lake Seep Middle (LLSM).

Review of Table 21 in Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report determined that Seep LLS was discharging on the following dates:

- 2023: April 3, May 1, June 5, December 27
- 2024: January 2, February 6, March 4, April 2, December 2
- 2025: January 6, February 2, March 3

The sample results reported in Table 21 of Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report show that the total iron and dissolved iron short-term acute BC Water Quality Guidelines for the protection of freshwater aquatic life for were exceeded in samples of this effluent.

Review of Table 22 in Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report determined that Seep LLSM was flowing during the sampling events which occurred on the following dates:

- 2023: January 2, February 5, March 4, April 3, May 1, June 5,
- 2024: April 2, November 12, December 2
- 2025: January 6, February 2, March 3

The sample results reported in Table 22 of Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report show that the total iron and dissolved iron short-term acute BC Water Quality Guidelines for the protection of freshwater aquatic life for were exceeded in samples of this effluent.

"Effluent", as defined by EMA, means a substance that is introduced into water or onto land and that:

- (a) injures or is capable of injuring the health or safety of a person,
- (b) injures or is capable of injuring property or any life form,
- (c) interferes with or is capable of interfering with visibility,
- (d) interferes with or is capable of interfering with the normal conduct of business,
- (e) causes or is capable of causing material physical discomfort to a person, or
- (f) damages or is capable of damaging the environment.

"Waste", as defined by EMA, includes "effluent", whether or not it has any commercial value or is capable of being used for a useful purpose.

Based on the analytical results, the discharge from LLS and LLSM meet the definition of effluent and are therefore considered a waste under EMA.

No exemption under EMA 6(5)

QCC holds a permit authorizing certain discharges of waste into the environment; however, the permit does not specifically authorize the discharge of effluent from LLS or LLSM.

In April of 2018 QCC applied for a permit amendment which included an application to have the LLS authorized in the Permit. This amendment was never completed because QCC failed to submit their final application package.

No exemption under EMA s.6(5) applies to this discharge. By allowing effluent to be discharged from LLS and LLSM without authorization in the course of a prescribed industry, QCC caused or allowed waste to be introduced into the environment and is therefore out of compliance with EMA s.6(2).

Previous inspection reports 208197 and 198616 referred these bypasses and unauthorized discharges for administrative penalty. At this time, in consideration of the ongoing de-risking work being undertaken at the site, the compliance outcome has not been escalated beyond a Warning.

Compliance:

Out

Actions to be taken:

Do not introduce or cause or allow waste to be introduced into the environment in the course of conducting a prescribed industry, trade or business without a valid and subsisting permit, approval, order or waste management plan approved by the minister.

Instructions on how to apply to make changes to your waste discharge authorization are available here:
<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/change>

QCC will remain out of compliance until the waste discharge stops or is authorized under EMA

Requirement Description:

1. AUTHORISED DISCHARGES, 1.2, 1.2.2

1.2.2: This subsection applies to the discharge of effluent from the SOUTH COAL MINING OPERATION as shown on attached Site Plan B. The site reference number for this discharge is E218582. 1.2.2 The characteristics of the discharge shall not exceed: Parameters: Total Suspended Solids (daily composite), Limit: 25, Unit: mg/L; Total Suspended Solids (hourly composite), Limit: 35, Unit: mg/L ; pH, Limit: 6.0 - 8.5, Unit: - ; Ammonia (as N) , Limit: 1.0, Unit: mg/L; Phosphorus (as P) (asterisk - see NOTE 1), Limit: 0.03, Unit: mg/L; NOTE 1: Dissolved; Oil and Grease (total), Limit: less than DL (3 asterisk - See NOTE 3), Unit: mg/L; NOTE 3: less than Detection Limit; Aluminum (asterisk - see NOTE 1), Limit: 0.5, Unit: mg/L; NOTE 1: Dissolved; Copper (asterisk - see NOTE 1), Limit: 0.02, Unit: mg/L; NOTE 1: Dissolved; Iron (asterisk - see NOTE 1), Limit: 0.5, Unit: mg/L; NOTE 1: Dissolved; Lead (asterisk - see NOTE 1), Limit: 0.05, Unit: mg/L; NOTE 1: Dissolved; Zinc (asterisk - see NOTE 1), Limit: 0.2, Unit: mg/L; NOTE 1: Dissolved; Rainbow Trout Bioassay (Oncorhynchus mykiss), Limit: (double asterisk - see NOTE 2), Unit: - ; NOTE 2: No mortalities at 100 percent effluent concentration after 96 hours.

Details/Findings:

Section 3.0 of the 2024-2025 Annual Report lists the following exceedance of the limits prescribed by this section:

- A sample collected December 2, 2024, exceeded the limit for oil and grease (total) with a concentration of 2.1 mg/L

Compliance:

Out

Requirement Description:

3. GENERAL REQUIREMENTS, 3.9 Maintenance of Works, Non-Compliances and Emergency Procedures, 3.9.2

3.9.2: In the event of commissioning of the works, operational system modifications, equipment failure, operator error, spill, permit non-compliances or any other condition which may affect the quantity or quality of the discharge such that permit limits may be exceeded, the Permittee shall: take appropriate action to prevent or mitigate pollution, immediately notify the Provincial Emergency Program (PEP) 1-800-663-3456, as soon as possible, conduct sampling and analysis of discharges which may cause non-compliance with the characteristics of the discharge as specified in Section 1 of this permit and provide the results to the Regional Waste Manager or a designated Officer, as soon as practicable (but not later than 30-days after the Permittee became aware of the event), investigate the event and provide a report including results of sampling and analysis, permit non-compliance, corrections to the operational system, root cause of the event and decisions for corrective and preventive action.

Details/Findings:

QCC failed to submit a non-compliance report in response to the December 2, 2024, oil and grease exceedance. The report is required not later than 30-days after the Permittee became aware of the event.

Compliance:

Out

Requirement Description:

3. GENERAL REQUIREMENTS, 3.10 Bypasses

3.10: The Permittee shall ensure that no effluent is discharged without being processed through the authorised works unless prior written approval is received from the Director.

Details/Findings:

As documented in inspection reports 208197 and 198616, two bedrock groundwater seeps (LLS and LLSM) convey mine impacted water from the 2-3 South mine pool at the Site and discharge into Long Lake.

Review of Table 21 in Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report determined that Seep LLS was discharging on the following dates:

- 2023: April 3, May 1, June 5, December 27
- 2024: January 2, February 6, March 4, April 2, December 2
- 2025: January 6, February 2, March 3

The sample results reported in Table 21 of Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report show that the BC Water Quality Guideline for total iron and dissolved iron were exceeded, confirming that this mine impacted seepage water is considered effluent, as defined in EMA.

Review of Table 22 in Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report determined that Seep LLSM was flowing during the sampling events which occurred on the following dates:

- 2023: January 2, February 5, March 4, April 3, May 1, June 5,
- 2024: April 2, November 12, December 2
- 2025: January 6, February 2, March 3

The sample results reported in Table 22 of Appendix I of the 2023-2024 Annual Report and 2024-2025 Annual Report show that the BC Water Quality Guideline for total iron and dissolved iron were exceeded, confirming that this mine impacted seepage water is considered effluent, as defined in EMA.

As these two mine impacted seeps discharged effluent from the Site into Long Lake, without this effluent being processed through the authorised works, without prior written approval from the Director, these are considered to be unauthorized bypasses.

In April of 2018 QCC applied for a permit amendment which included an application to have the LLS authorized in the Permit. This amendment was never completed because QCC failed to submit their final application package.

Previous inspection reports 208197 and 198616 referred these bypasses and unauthorized discharges for administrative penalty. At this time, in consideration of the ongoing de-risking work being undertaken at the site, the compliance outcome has not been escalated beyond a Warning.

Compliance:

Out

Requirement Description:

4. MONITORING AND REPORTING REQUIREMENTS, 4.1 Effluent and In-Mine Releases, 4.1.1 North Coal Mining and Coal Preparation Plant Operation (i) Decent - WD (EMS # E207409)

4.1.1 (i): See Attached Document for Section 4.1.1 (i) Table

Details/Findings:

On February 6, 2024, the Ministry replaced the monitoring and sampling tables in section 4.1 and 4.2 with new tables 1, 2, and 3. The new tables did not affect the continuous flow monitoring requirements of this section.

A review of Table 2 of the 2023-2024 and 2024-2025 Annual Reports determined that the following monitoring, required by this section, was missed:

- QCC failed to record continuous decant flow from May 17 - 29, 2024 due to an equipment malfunction

Compliance:

Out

Requirement Description:

4. MONITORING AND REPORTING REQUIREMENTS, 4.1 Effluent and In-Mine Releases, 4.1.2 South Coal Mining Operation (i) Decant - SPD (EMS # E218582)

4.1.2 (i): See Attached Document for Section 4.1.2 (i) Table

Details/Findings:

On February 6, 2024, the Ministry replaced the monitoring and sampling tables in section 4.1 and 4.2 with new tables 1, 2, and 3. The new tables did not affect the continuous flow monitoring requirements of this section.

A review of Table 2 of the 2023-2024 and 2024-2025 Annual Report determined that the following monitoring, required by this section, was missed:

- QCC failed to record continuous decant flow on April 1, 3, 5, 7, 11-13, and October 1- November 12, 2024, due to an equipment malfunction
- QCC failed to record accurate continuous decant flow on April 11, 14, 17, 18, 23-28, and May 30, 2024, due to equipment malfunction.

Compliance:

Out

Requirement Description:

4. MONITORING AND REPORTING REQUIREMENTS, 4.2 Receiving Environment Monitoring Sites and Monitoring Requirements, 4.2.1 Initial Dilution Zone Monitoring Sites (ii) Road Crossing-etc.

4.2.1 (ii): See Attached Document for Section 4.2.1 (ii) Table

Details/Findings:

On February 6, 2024, the Ministry replaced the monitoring and sampling tables in section 4.1 and 4.2 with new tables 1, 2, and 3. The new tables did not affect the continuous flow monitoring requirements of this section.

A review of Table 2 of the 2023-2024 and 2024-2025 Annual Report determined that the following monitoring, required by this section, was missed:

- QCC failed to record continuous flow on October 18 to November 18, 2024, due to equipment replacement.

Compliance:

Out

Requirement Description:

4. MONITORING AND REPORTING REQUIREMENTS, 4.3 Additional Monitoring Requirements, 4.3.2 Continuous Flow Recording

4.3.2: The Permittee shall provide and maintain suitable flow measuring devices and maintain a continuous record of the rate at which the effluent is discharged from the settling ponds authorised in Subsections 1.1.3, 1.2.3, 1.4.3 and from the secondary settling pond authorised in Subsection 1.3.3.

Details/Findings:

A review of Table 2 of the 2023-2024 and 2024-2025 Annual Report determined that the following monitoring, required by this section, was missed:

- QCC failed to record continuous effluent discharge from SP1 (E218582) on April 1, 3, 5 7, 11-13, and October 1-November 12, 2024, due to an equipment malfunction
- QCC failed to record accurate continuous effluent discharge from SP1 (E218582) on April 11, 14, 17, 18, 23-28, and May 30, 2024, due to equipment malfunction.
- QCC failed to record continuous effluent discharge from SP4 (E207409) from May 17 - 29, 2024 due to an equipment malfunction

Compliance:

Out

Requirement Description:

4. MONITORING AND REPORTING REQUIREMENTS, 4.5 Reporting

4.5.1 (i): The Permittee shall submit the results of the monitoring program to the Director on a quarterly basis within thirty days following the previous quarter of monitoring. Based on these results, the monitoring program may be increased or decreased at the discretion of the Director. The format and content of the quarterly report is subject to the approval the Director. An annual review and interpretative report shall be prepared and submitted by the Permittee by June 30 of each year. The report will include, but is not necessarily limited to, the following items: 1) A summary of monitoring results for the previous twelve months. 2) Spills or other unusual events. 3) Changes in the environment resulting from mining activity. 4) Summary of completed, in progress activities or studies relevant to the permitted discharges, associated authorized works and the receiving environment relevant to the reporting period. 5) Projected activities for the coming year which may have an impact on the environment. The format and content of the annual report is subject to the approval of the Environmental Technical Review Committee and the Director. 4.5.1 Through the duration of mining in 7-South Area 5, quarterly and annual reports shall include a summary of: i. Quality and quantity of water pumped from the 7-South Area 5 development with potential to reach Settling Pond 4.

Details/Findings:

On February 6, 2024, the Ministry amended the reporting requirements as follows:

The Q1 Data Report is due annually on August 30

The Q2 Data Report is due annually on November 30

The Q3 Data Report is due annually on January 30

The Q4 Data Report is omitted.

A review of Ministry files determined that QCC failed to comply with the requirements of this section on the following occasions:

- The 2023 Q1 Report was submitted late on July 31, 2023.
- The 2023 Q2 Report was submitted late on October 31, 2023. An error in the report then resulted in QCC submitting the document on November 1, 2023
- The 2024 Q2 Report was submitted late on December 2, 2024.
- QCC failed to submit a report for Q3 2024.

Compliance:

Out

Compliance History:

2024-02-15 IR 208197 AMP: AUTHORISED DISCHARGES 1.1.1; 1.2.4, Bypasses 3.10, Composite Sampling 4.3.1, Initial Dilution Zone Monitoring Sites (ii) Road Crossing-etc 4.2.1 (ii), Lake Monitoring Requirements 4.2.6, North Coal Mining and Coal Preparation Plant Operation (i) Decant - WD (EMS # E207409) 4.1.1 (i), South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), Stream Monitoring Requirements 4.2.5

2022-11-22 IR 194661 AMP: AUTHORISED DISCHARGES 1.1.1; 1.1.4; 1.2.2; 1.2.3; 1.2.4, Bypasses 3.10, Composite Sampling 4.3.1, Continuous Flow Recording 4.3.2, Maintenance of Works, Non-Compliances and Emergency Procedures 3.9.1; 3.9.2, North Coal Mining and Coal Preparation Plant Operation (i) Decant - WD (EMS # E207409) 4.1.1 (i), Reporting 4.5.1 (i), Sediment and Benthic Monitoring 4.2.7, South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), Stream Monitoring Requirements 4.2.5

2021-11-08 IR 174939 AMP: AUTHORISED DISCHARGES 1.1.2; 1.1.4; 1.2.3; 1.2.4, Bypasses 3.10, Effluent Characteristics (for Total Suspended Solids) 2.1.7, Initial Dilution Zone Monitoring Sites (ii) Road Crossing-etc 4.2.1 (ii), Maintenance of Works, Non-Compliances and Emergency Procedures 3.9.1; 3.9.2, Settling Pond Solids and Storage Volume 2.1.5, South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), South Coal Mining Operation (iv) Additional Monitoring Sites Schedule (2S, 3S77, 4S-Lo) 4.1.2 (iv)

2021-01-18 IR 159669 Warning 120(6): AUTHORISED DISCHARGES 1.1.1; 1.2.2, Bypasses 3.10, Composite Sampling 4.3.1, Continuous Flow Recording 4.3.2, Effluent Characteristics (for Total Suspended Solids) 2.2.5, Initial Dilution Zone Monitoring Sites (i) Long Lake Entrance - LLE 4.2.1 (i), Lake Monitoring Requirements 4.2.6, Maintenance of Works, Non-Compliances and Emergency Procedures 3.9.1, Reporting 4.5.1 (i), Settling Pond Solids and Storage Volume 2.4.4, South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), South Coal Mining Operation (iv) Additional Monitoring Sites Schedule (2S, 3S77, 4S-Lo) 4.1.2 (iv), Stream Monitoring Requirements 4.2.5

2019-10-18 IR 139588 Advisory: Acid Generation Control 3.3, AUTHORISED DISCHARGES 1.1.1; 1.1.2, Bypasses 3.10, Composite Sampling 4.3.1, Environmental Procedures Manual 3.2, Initial Dilution Zone Monitoring Sites (i) Long Lake Entrance - LLE 4.2.1 (i), North Coal Mining and Coal Preparation Plant Operation (i) Decant - WD (EMS # E207409) 4.1.1 (i), Reporting 4.5.1 (i), South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), Stream Monitoring Requirements 4.2.5

2019-01-25 IR 106411 Advisory: AUTHORISED DISCHARGES 1.1.1; 1.1.4; 1.2.2; 1.2.4; 1.4.3, Bypasses 3.10, Composite Sampling 4.3.1, Initial Dilution Zone Monitoring Sites (i) Long Lake Entrance - LLE 4.2.1 (i), Initial Dilution Zone Monitoring Sites (ii) Road Crossing-etc 4.2.1 (ii), Lake Monitoring Requirements 4.2.6, North Coal Mining and Coal Preparation Plant Operation (i) Decant - WD (EMS # E207409) 4.1.1 (i), North Coal Mining and Coal Preparation Plant Operation (ii) Culvert, at Middle Quinsam Lake Road - WC (EMS # E207411) 4.1.1 (ii), Reporting 4.5.1 (i), South Coal Mining Operation (i) Decant - SPD (EMS # E218582) 4.1.2 (i), South Coal Mining Operation (iv) Additional Monitoring Sites Schedule (2S, 3S77, 4S-Lo) 4.1.2 (iv), Stream Monitoring Requirements 4.2.5

2017-11-15 IR 70993 Warning 120(6): AUTHORISED DISCHARGES 1.1.1; 1.1.2; 1.1.3; 1.1.4; 1.2.2; 1.2.3; 1.2.4; 1.4.2; 1.4.3; 1.4.4, Composite Sampling 4.3.1, Continuous Flow Recording 4.3.2

The Ministry of Environment Compliance and Enforcement Policy and Procedure (C&E Policy) prescribes common requirements and procedures for all Ministry staff to ensure consistent and risk-based assessment and response to non-compliance. Using the Non-Compliance Decision Matrix, the compliance determination for this inspection has been assessed as Level 2, Category B, Warning.

More information about Environmental Compliance, the Non-Compliance Decision Matrix, and reporting and data submission requirements can be found at the links below:

General compliance information:

www.gov.bc.ca/environmentalcompliance

Non-Compliance Decision Matrix information:

www.gov.bc.ca/environment/how-compliance-is-assessed

Reporting and data submission requirements (to be sent to EnvAuthorizationsReporting@gov.bc.ca):

<https://www2.gov.bc.ca/gov/content/environment/waste-management/waste-discharge-authorization/comply>

Please be advised that this inspection report may be published on the provincial government website within 7 days.

Below are attachments related to this inspection.

If you have any questions about this warning, please contact the undersigned.

Yours truly,

Kelly Mills
Environmental Protection Officer

cc:

Attachments:

1) LT - Stakeholder Notification - Feb 3, 2025.pdf Attachment 1

Deliver via:

Email: ☒ Fax: ☐ Mail: ☐
Registered Mail: ☐ Hand Delivery: ☐

**Ministry of Environment
and Climate Change
Strategy**

Compliance and
Environmental
Enforcement Branch

Mailing Address:
2080-A
Labieux Rd
Nanaimo BC V9T 6J9

Telephone: 250 751 3100
Facsimile: 250 751 3103
Website: www.gov.bc.ca/env

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of the regulations and codes of practices please visit
<http://www.bclaws.ca>

If you require a copy of the original permit, please contact the inspector noted on this inspection record.

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

February 3, 2025

Stakeholder Update re: Quinsam Coal Mine De-Risking Program

The Quinsam Coal Mine is an underground mine located on Vancouver Island approximately 25 km southwest of Campbell River operated by Quinsam Coal Corporation. Active coal mining at the mine site ceased in May 2019. Quinsam Coal Corporation is currently in receivership, with MNP Ltd. serving as the court appointed Receiver Manager of Quinsam Coal Corporation (Receiver) managing the care and maintenance of the mine site.

To establish safe long-term conditions for the mine site the Receiver is currently developing and undertaking a de-risking program in conjunction with the British Columbia Ministry of Mining and Critical Minerals (MCM).

The purpose of this update is to inform First Nations and stakeholders of the de-risking program and provide a brief high level summary of the objectives of the de-risking program, the de-risking programs current focus areas and a point of contact for any questions regarding the de-risking program to facilitate any necessary further discussion.

Currently, even though mining has ceased, care and maintenance of the mine requires that the underground workings are continuously ventilated, underground water pumping infrastructure is maintained and active management of the mines water systems is continued through pumping. This level of care and maintenance requires mine staff to regularly access the underground workings to maintain infrastructure which poses an ongoing health and safety risk to mine staff and increases the costs of care and maintenance.

The de-risking program is focused on activities that will minimize or eliminate the requirement to access the underground workings, so that health and safety risks can be mitigated, and care and maintenance costs reduced. The program currently has three focus areas:

1. 7South Test Flood

The 7South test flood was initiated in Fall 2024 and is on-going. A portion of the 7South underground workings was allowed to flood with water, and mine staff are monitoring groundwater levels and seepages in the area around this portion of the mine. The long-term plan is to allow the full 7South area to naturally flood with water. This is consistent with the original approved closure plan for the mine.

2. 2North PAG CCR management

There are some potentially acid generating (PAG) coarse coal rejects (CCR), that are currently stored in an old mine pit, submerged under a water cover to prevent acid-generation. This is not a preferred long-term solution, since active management and pumping is needed to maintain the water cover. Over the past 6 months, the Project team has conducted an evaluation of various options for the long-term management of PAG material. The current plan for the PAG material is to construct an engineered cover over the in-place material to minimize oxygen movement through the material, thereby mitigating the risk of acid generation occurring. Engineering design of the cover is underway with contracting and procurement of materials planned for Q1/Q2 of 2025, and construction of the cover planned for summer of 2025.

3. 2North Passive Dewatering Test

Current water management for the 2North portion of the underground mine includes pumping of water from multiple underground locations, with release of the water to Brinco Brook, which ultimately flows into Middle Quinsam Lake. The current system requires personnel to regularly access the underground workings to inspect and maintain pumping systems. Provided that water quality can be maintained, the Project team is working to assess the feasibility of establishing a permanent passive discharge from the underground mine to the Quinsam River. Establishing passive discharge from the underground mine would protect worker health and safety; and reduce the costs associated with the operation and maintenance of ventilation and pumps.

In order to demonstrate feasibility, any passive discharge system must achieve the following environmental conditions:

- Ensure that the lower elevations of the mine that were backfilled during mining remain permanently submerged below the water table.
- Allow for the safe passive release of water from the upper elevations of the mine, particularly during the rainy season.
- Maintain safe water quality in the Quinsam River under all flow conditions, including during the low flow conditions in summer/fall.

The Receiver and MCM have developed a plan for a dewatering test that would run from January through the end of August 2025. The plan has been developed in consultation with the Ministry of Environment and Parks, and the results from the test would inform necessary water management changes at the site to be implemented by March 2026.

The dewatering test includes the following key activities:

- Installation of two new dewatering wells into the mine pool near the Quinsam River (referred to as River Barrier Pillar (RBP) wells).
- Installation of approximately 200 m of ditching and water management structures to convey water from the new RBP wells to the Quinsam River.
- Installation of back-up power and pumping capability at the wells as contingency. This would allow water from the wells to be pumped back to the existing Settling Pond #4 if poor water quality is encountered. It would also replace the current pumping system that is inside the mine, so that mine staff could manage water without needing to go underground.
- Testing of the ditching and water management structures, in particular to assess its ability to settle out iron that may precipitate when water from the wells is brought to the surface.
- A water discharge study on the Quinsam River (approximately 1 week in March, and potentially 1 week in August), which includes the use of an environmentally safe tracer dye to determine how effectively the well water mixes with the river water during high and low flows. Recreational users on or adjacent to the river may notice a pink colouring of the water during these two 1-week periods.
- A detailed monitoring program within, and along the banks of the Quinsam River between Middle Quinsam Lake and the confluence with the Iron River. The program includes monitoring groundwater levels, flow rates, seepages, and water quality. Mine staff and consultants will be active on the Quinsam River to conduct the monitoring associated with this program.
- A Trigger-Action-Response Plan, against which the monitoring results will be assessed to ensure that conditions in the Quinsam River are environmentally protective throughout the dewatering test.

The Receiver and MCM would welcome the opportunity to provide more information about the de-risking program, and to answer any questions or concerns that you may have.

Please contact Kathleen Russell via email at Kathleen.Russell@quinsam.com for further information.

Document : LT - Stakeholder Notification - Feb 3, 2025.pdf

Document comment: Attachment 1

APPENDIX VII – Non - Compliance Reports

APPENDIX VI – River Barrier Pillar Treatment System Performance

RIVER BARRIER PILLAR TREATMENT SYSTEM

Monitoring Period: November 2025 – March 31, 2026

KATHLEEN RUSSELL

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2. Water Management & Contingency Planning
3. Total and Dissolved Iron
4. Quinsam River Dilution and Blending for Parameter Constituents
5. Ecotoxicological Performance Assessment
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7. Conclusion

Attachment 1

Table / Figure Number	Pages	Description
Table 1	66	Monthly Statistics for November 2025 to March 31, 2026
Table 2	7	River Barrier Pillar 1 (RBP1)
Table 3	12	Settling Pond 1 (SP1)
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Table 5	8	Settling Pond 3 (SP3)
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1. Executive Summary & System Status

This report summarizes the operational performance and water quality monitoring results for the full-scale River Barrier Pillar Treatment System (RBPTS). The RBPTS passively conveys sub-oxic underground mine pool water from artesian boreholes to a rock-filled splash pad and channel, where initial aeration and physical conditioning occur. Flow then passes through a multi-basin settling sequence consisting of Settling Pond 1 (SP1), Settling Pond 2 (SP2), Settling Pond 3 (SP3), the Settling Pond 3 surface area (SP3S), and the rock-lined Settling Pond 3 Channel Outlet (SP3C). This treatment pathway promotes oxidation, precipitation, and settling of iron complexes before treated water is discharged at the River Barrier Pillar Outlet (RBPO) to the Quinsam River.

Discharge Rates:

The source water is managed via three dedicated boreholes drilled directly into the flooded underground mine void under artesian pressure. Two passive artesian boreholes actively feed the RBPTS surface facility:

- **Borehole 2 (BH2 / Station RBP1):** Online since November 21, 2025
- **Borehole 3 (BH3):** Online since February 9, 2026

The Full-Scale RBPTS released 562,738 m³ during the winter and spring monitoring window spanning from November 17, 2025, through March 31, 2026 (a duration of exactly 134 days). The RBPTS operated under active flow-throttling conditions, where automated site flow totalizers at Station RBP1 and BH3 recorded a cumulative volume of 148,659,727 US Gallons (USG) discharged from the passive network into the surface treatment facility. The cumulative total of treated mine water released from the RBPTS from April 1, 2025, to March 31, 2026, was 809,908 m³ via the River Barrier Pillar Outlet (RBPO). This comprehensive total accounts for the treated water managed by the Pilot-Scale system from April through July 2025, as well as the subsequent full-scale operation.

Environmental Monitoring Stations & Surveillance

Compliance and receiving environment conditions were assessed at the final discharge point, RBPO, and through an upstream and downstream Quinsam River monitoring network. Monitoring locations include WB as the background reference station, QRUS as the upstream check station, and downstream stations QRDS (40 m), QRDSA (100 m), QRDSB (400 m), and QRDS1 (1,225 m). The site is also subject to continuous security oversight through 24-hour video surveillance and routine mandatory field monitoring visits.

2. Water Management & Contingency Planning

2.1 Dilution Ratios

Quinsam River flows are influenced by upstream hydroelectric regulation and can fluctuate substantially over short periods. RBPTS discharge was managed against ambient receiving-water volumes obtained from the upstream Environment Canada hydrometric station, QUINSAM RIVER AT ARGONAUT BRIDGE (08HD021), to support instream blending and maintain appropriate dilution ratios. During the monitoring period, volumetric dilution ratios (Q_R / Q_D) ranged from a winter maximum of 352:1 during rain-on-snow events to a seasonal recession minimum of 17:1.

Two planned zero-discharge maintenance windows were completed from January 9 to 15 and February 10 to 19. During these periods, precast concrete lock blocks were installed in Settling Ponds 1, 2, and 3 to improve internal baffling. These structural additions lengthened hydraulic flow paths, increased retention time, and reduced the potential for short-circuiting during higher discharge conditions.

2.2 Mitigation & Contingency Dewatering Plan

The third borehole is retained as the principal contingency asset for environmental risk management. It is equipped with a high-capacity submersible pump connected to a dedicated surface pipeline manifold. If passive artesian water quality deteriorates or river gauging indicates insufficient ambient dilution capacity ($<10:1$), the contingency pump can be activated to control mine pool levels and redirect flow away from the Quinsam River discharge pathway.

Under contingency operation, raw mine water would be diverted to Brinco Brook and routed through Settling Pond 4 (SP4), the authorized discharge location for the North mine area. This contingency pathway provides operational flexibility during periods when RBPTS discharge to the Quinsam River is not appropriate.

3. Total and Dissolved Iron

3.1 Iron

Raw influent at RBP1 (BH2) had a mean total iron concentration of 6.14 mg/L and a maximum concentration of 16.8 mg/L during initial system deployment. Concentrations declined to a minimum of 2.32 mg/L, with steady improvement from February through March as mine pool elevations stabilized and freshwater recharge entered the mine workings. Elevated early-season iron concentrations are interpreted to reflect stagnant summer mine water and rising mine pool levels contacting oxidized underground surfaces. Because the underground mine pool is confined under pressure and remains sub-oxic, a substantial portion of iron occurs in the dissolved ferrous (Fe^{2+}) form. Aeration across the splash pad promotes oxidation of ferrous iron to ferric iron (Fe^{3+}),

which forms insoluble ferric oxyhydroxide precipitates that can be removed through settling. Dissolved iron followed a similar pattern, with an average concentration of 7.52 mg/L and a range of 2.33 mg/L to 16.4 mg/L.

At the River Barrier Pillar Outlet (RBPO), total iron averaged 2.95 mg/L and ranged from 1.31 mg/L to 7.92 mg/L. Dissolved iron averaged 0.256 mg/L and ranged from <0.010 mg/L to 5.57 mg/L. Elevated total iron results were primarily observed during the initial commissioning period and declined steadily as settling performance improved. Total iron exceeded the 3.1 mg/L Trigger 2 value in 18 of 53 samples, with exceedances concentrated in November and December. By January, increased hydraulic retention time within the ponds corresponded with improved iron removal and a decline in final effluent concentrations below the trigger level.

3.2 Lock-Block Retention Optimization & Physical Extraction

Following installation of the lock-block baffles, settling performance improved substantially. The added baffling increased hydraulic retention time and promoted settling of iron precipitates within the ponds rather than allowing solids to short-circuit through the treatment train during higher flow conditions:

- **Total Iron Trends:** Final effluent concentrations at RBPO declined from early-winter peaks to a consistent January-to-March baseline of approximately 1.71 mg/L to 2.07 mg/L, below the 3.1 mg/L Trigger 2 value.
- **Dissolved Iron Status:** Dissolved iron concentrations leaving the system generally decreased below the BC Water Quality Guideline of 0.35 mg/L, with values as low as 0.053 mg/L recorded by early spring.

3.3 Field Colorimetric Spectrophotometry

On-site iron tracking was completed using Hach spectrophotometers and the FerroVer Method 8008. This method measures total iron by reducing iron in the sample to the ferrous form, which then reacts with 1,10-phenanthroline to produce an orange-coloured complex measured colorimetrically.

Field Hach results were compared with laboratory results using Relative Percent Difference (RPD). Figure 1.1 presents the comparison for undiluted mine water and 50% diluted mine water samples. For 93 paired undiluted samples, the average RPD was 24%, with 22 results exceeding an RPD of 20%. For 104 paired diluted samples, 45 results exceeded an RPD of 20%, representing a 43.3% exceedance rate. Overall, the undiluted field results compared reasonably well with laboratory results and provide useful operational screening data for real-time system management.

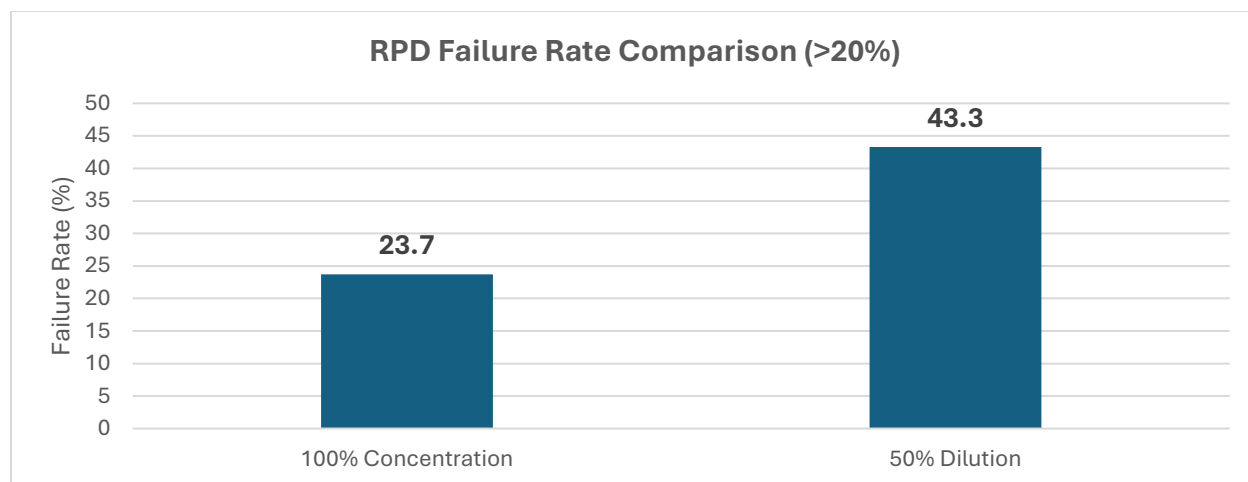


Figure 1.1: RPD for Field Colorimetric Results Compared to Laboratory Results

3.4 Quinsam River Dilution and Blending for Parameter Constituents

Following discharge at RBPO, treated mine water mixes with Quinsam River flow and is progressively diluted within the downstream river reach. Receiving environment monitoring focuses on parameters that are expected to behave conservatively during dilution, including dissolved arsenic and sulphate. Total iron is assessed separately because it is a reactive parameter that is strongly influenced by oxidation, precipitation, and settling within the treatment system and receiving environment.

The following parameters remained well managed during the monitoring period:

- **Dissolved Arsenic (D-As):** Dissolved arsenic remained low and relatively uniform in the mine pool, ranging from 0.00192 mg/L to 0.00354 mg/L. River concentrations remained at ultra-trace levels, generally below 0.0007 mg/L.
- **Sulphate (SO₄):** Sulphate behaved conservatively, with effluent concentrations ranging from 564.0 mg/L to 802.0 mg/L. High receiving-water volumes from Middle Quinsam Lake provided substantial dilution, and river sulphate concentrations remained below chronic Water Quality Guidelines and applicable trigger values. Mean concentrations ranged from 10 mg/L at WB to 38.6 mg/L at QRDS.

4. Ecotoxicological Performance Assessment

Acute toxicity testing results are provided in Appendix III. Undiluted (100% v/v) process water samples were assessed using standard acute toxicity test methods:

- **96-Hour Rainbow Trout (*Oncorhynchus mykiss*):** Samples collected from both the influent (RBP1) and final discharge (RBPO) resulted in 100% survival, with 0%

mortality during all evaluation periods. Minor iron flocculation observed on laboratory tank bottoms did not result in reported respiratory or behavioural effects.

- **48-Hour *Daphnia magna*:** Most winter tests resulted in 0% mortality or immobility. One sample collected on February 2 produced 10% mortality/immobility, equal to the Trigger 1 threshold. Follow-up testing on February 9 returned to 0% mortality/immobility, indicating that the February 2 result was transient and not indicative of sustained acute toxicity.

5. Compliance & Exceedance Review Compared to Triggers

Refer to Attachment 1 for Water Quality Data, Tables 1 through 9. The system operates under a tiered framework where Trigger 1 signals early-warning internal operational adjustments and Trigger 2 marks thresholds for mitigation, such as turning on the pump and dewatering to Brinco Brook.

Table 5-1: Effluent Exceedance Review at Compliance Point RBPO (vs. Trigger 2, Limits)

Evaluates the ultimate system discharge cell prior to river blending.

Target Variable	Unit	Trigger 2 Limit	Total Samples	Observed Operational Range / Mean	Trigger 2 Exceedances	Compliance Assessment
Field pH	Unit	< 6.0 / > 8.5	Continuous	7.08 – 8.15	0	Fully Compliant
Total Suspended Solids	mg/L	25	45	8.0 – 12.1	0	Fully Compliant
Total Iron (Fe)	mg/L	3.1	49	3.53 - 7.92	18	Early Winter Exceedances; resolved by lock-block retrofits
Dissolved Arsenic (D-As)	mg/L	0.091	45	0.0019 – 0.0035	0	Fully Compliant
Sulphate	mg/L	1,321	45	564.0 – 802.0	0	Fully Compliant
Rainbow Trout Bioassay	% Mort.	>=50%	5	0%	0	Fully Compliant
<i>Daphnia magna</i> Bioassay	% Mort.	>= 50%	8	0% – 10%	0	Fully Compliant

Table 5-2: Exceedances of Trigger 2 in the Quinsam River

Comprehensive spatial review across actual river monitoring stations: WB- QRUS - QRDS - QRDSA - QRDSB - QRDS1- 7SQR compared to the Trigger 2 maximums.

Trigger 2	TSS: 2.4 mg/L		
	2026-02-23	3.2	WB
	2025-12-14	3.2	QRDSA
	2025-12-14	3.2	QRDS1
	2025-12-16	2.8	QRDS1
Trigger 2	Cu-D: 0.001 mg/L		
2025-12-16	0.0032	0.001	QRDSB

Receiving Environment Parameters Above Trigger 2

Refer to Attachment 1, Tables 10 to 18 for water quality results. Two receiving environment parameters, total suspended solids (TSS) and dissolved copper (Cu-D), were reported above Trigger 2 maximum values, as summarized in Table 5-2. These results occurred during a period of elevated Quinsam River flow and were limited in duration and spatial extent. TSS concentrations at downstream stations QRDSA and QRDS1 were measured at 3.2 mg/L between December 14 and 16, slightly above background concentrations measured at WB, which ranged from 1.6 mg/L to less than 1.0 mg/L. Dissolved copper was reported at 0.0032 mg/L at QRDSB on December 16; however, corresponding dissolved copper results were not elevated at the background station or other downstream stations during the same event. Dissolved copper is also known to periodically exceed chronic WQGs within the broader Quinsam watershed. The isolated and non-persistent nature of these results indicates that they are more consistent with watershed-scale conditions and high-flow variability than with a sustained RBPTS discharge effect.

Total Iron: Total iron results compiled in Attachment 1, Table 17 were compared with the applicable variable chronic Water Quality Guideline (WQG). Neither individual results nor averaged results exceeded the applicable chronic WQG. Quinsam River total iron concentrations remained below chronic aquatic life guideline values, which ranged from 0.075 mg/L to 0.430 mg/L. At the far-field regulatory boundary, QRDS1, all samples were also below 0.3 mg/L. These results indicate effective downstream attenuation and confirm that physical mixing and dilution were adequate within the river reach between RBPO and QRDS1.

Sulphate Soft-Water Safety: Despite elevated dissolved sulphate concentrations in the mine pool, sulphate concentrations in the Quinsam River did not exceed the more stringent soft-water guideline of 128 mg/L during the monitoring period. Average dissolved sulphate concentrations ranged from 10.7 mg/L to 34.1 mg/L between November 20, 2025, and March 31, 2026. Sulphate will continue to be monitored during low-flow conditions to confirm the receiving environment's summer attenuation capacity. RBPTS discharge rates have been reduced during periods of lower

river flow to maintain appropriate dilution conditions. These results indicate that real-time flow-based adjustments during critical low-flow periods are effective protective measures for aquatic life in the Quinsam River.

6. Conclusion

Operational and water quality data collected from November 2025 through March 31, 2026, demonstrate that the full-scale River Barrier Pillar Treatment System (RBPTS) is functioning as an effective passive treatment system. The transition from the pilot-scale configuration to the full-scale passive system reduced long-term operational reliance on underground access and active subsurface pumping, while maintaining controlled management of artesian mine water prior to discharge.

Early-winter iron-settling challenges at RBPO were addressed through installation of internal precast concrete lock-block baffles. This modification increased hydraulic retention time within the settling ponds and improved final effluent quality, with total iron concentrations stabilizing below the 3.1 mg/L Trigger 2 value during subsequent steady-state winter and spring operation. In the receiving environment, the combination of passive treatment, planned maintenance shutdowns, and dilution-based discharge management proved to be protective of downstream water quality. Isolated Trigger 2 results for TSS and dissolved copper were limited, non-persistent, and not accompanied by sustained downstream effects. Total iron and sulphate remained below applicable chronic aquatic life guidelines in the Quinsam River.

Quinsam Coal Corporation will continue to support long-term environmental stewardship through ongoing physical-chemical monitoring, acute toxicity testing, 24-hour video surveillance, and routine field inspections. These data will be used to refine discharge throttling thresholds, maintain appropriate dilution ratios, and optimize passive treatment performance during continued operation and site closure planning.

Attachment 1

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV
RBP1	November 2025	Average	Mine Water Level	Totitizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F
Mine water	November 2025	Average		64842961	0.061652	6.93	7.59	2518.5	8.980	-84.3
		Minimum		58387528	0.050535	6.78	7.24	2473.9	8.198	-100.5
		Maximum		71245150	0.0656	7.09	7.92	2584	9.35	4
		Standard deviation		4365584	0.006081	0.09	0.22	34.3	0.318	30.8
		Geometric mean		64710207	0.061361	6.92	7.59	2518.3	8.974	-926.9
		First quartile		61491128	0.0637	6.88	7.43	2494	8.905	-99.2
		Third quartile		68034476	0.0652	6.97	7.69	2539.4	9.165	-85.1
		90th Percentile		70028433	0.0656	7.02	7.82	2554.2	9.27	-71.3
	December 2025	Average		69048703	0.056710329	6.76	7.79	2296.6	8.953	138.5
		Minimum		773680	0.030030933	6.69	7.37	2060.1	8.148	37.8
		Maximum		99295263	0.076718	6.96	8.17	2578.2	9.651	215
		Standard deviation		31404744	0.015532369	0.07	0.22	186.6	0.380	48.8
		Geometric mean		46856262	0.054175306	6.76	7.79	2289.5	8.945	128.5
		First quartile		73819782	0.046749836	6.72	7.7	2148.9	8.758	117.9
		Third quartile		88081234	0.066591702	6.76	7.93	2511.8	9.151	176.8
		90th Percentile		92857528	0.0689197	6.81	7.99	2569.2	9.237	205.1
	January 2026	Average	234.8	28462581	0.057081639	6.70	7.71	2113.9	8.431	131.4
		Minimum	229.8	19375162	0.036718494	6.47	7.37	1790.6	7.027	-45.4
		Maximum	238.3	41894063	0.066433977	6.84	7.98	2337.4	9.482	226.9
		Standard deviation	3.8	7206868	0.010123467	0.11	0.16	221.1	0.858	104.0
		Geometric mean	234.7	27666153	0.056100018	6.70	7.71	2103.0	8.390	104.3
		First quartile	230.8	22953894	0.057046596	6.63	7.68	1889.5	7.779	48.8
		Third quartile	238	32709927	0.062774746	6.79	7.77	2305.2	8.996	204.5
		90th Percentile	238.2	37852399	0.065045992	6.82	7.86	2318.4	9.271	220.4
	February 2026	Average	239.2	59304035	0.0557839	6.71	7.88	1840.4	9.411	65.88
		Minimum	236.7	50559094	0.02649	6.64	7.75	1777.3	9.334	-24.6
		Maximum	241.6	67809890	0.06782	6.8	7.99	1926.2	9.5	192.9
		Standard deviation	2.3	6768374	0.0170451	0.06	0.10	54.7	0.067	109.15
		Geometric mean	239.2	58977551	0.0529612	6.71	7.87	1839.7	9.411	184.73
		First quartile	237.2	54171171	0.0486375	6.67	7.83	1799.3	9.354	-15.7
		Third quartile	241.1	63988716	0.0666476	6.74	7.92	1858.7	9.455	176.9
		90th Percentile	241.4	66399081	0.0673968	6.78	7.96	1893.8	9.48	186.5
	March 2026	Average	242.1	74842325	0.051587	6.66	7.84	1876.2	9.366	7.9
		Minimum	241.2	7078371	0.03394	6.53	7.52	1753	9.154	-24.9
		Maximum	243.4	96964000	0.067822	6.77	7.98	2062.9	9.6	46.4
		Standard deviation	0.7	26720578	0.016027	0.07	0.19	89.8	0.128	21.6
		Geometric mean	242.1	63071936	0.049219	6.66	7.84	1874.3	9.365	15.3
		First quartile	241.6	73359602	0.03514	6.65	7.8	1837.4	9.289	-5.7
		Third quartile	242.3	88914219	0.06492	6.69	7.95	1913.5	9.417	20.2
		90th Percentile	242.9	92022788	0.0655	6.72	7.97	1974.2	9.504	26

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RBP1	November 2025	Average	2.77	24.2	0.0718	0.068	799	0.95	531.0	546.4
Mine water	November 2025	Minimum	0.69	13	0.0648	0.061	750	0.76	494	503
		Maximum	6.09	34	0.0787	0.074	860	1.5	569	581
		Standard deviation	1.82	7.2	0.0098	0.009	39	0.20	29.8	22.8
		Geometric mean	2.23	23.1	0.0714	0.067	798	0.94	530.2	546.0
		First quartile	1.28	18	0.0683	0.064	772	0.88	497.8	529.5
		Third quartile	3.86	29.8	0.0752	0.071	820	0.96	560.5	558.2
		90th Percentile	5.16	32.9	0.0773	0.073	851	1.05	562.9	568.6
	December 2025	Average	12.10	14.9	0.0697	0.066	723	1.00	479	499
		Minimum	0.18	5.6	0.0489	0.046	660	0.78	413	443
		Maximum	23.89	23	0.104	0.098	780	1.2	546	583
		Standard deviation	8.11	5.3	0.0299	0.028	35	0.16	30	34
		Geometric mean	8.06	13.9	0.0659	0.062	722	0.99	478	498
		First quartile	6.01	11	0.0526	0.05	692	0.91	461	479
		Third quartile	20.75	20	0.0801	0.075	750	1.12	495	516
		90th Percentile	21.88	20.9	0.0945	0.089	759	1.2	517	544
	January 2026	Average	7.86	5.0	0.0790	0.074	648.2	0.90	409.8	427.7
		Minimum	-4.04	2.4	0.0595	0.056	610	0.73	367	399
		Maximum	36.89	6.8	0.0957	0.09	690	1	460	465
		Standard deviation	11.17	1.4	0.0183	0.017	22.3	0.10	27.4	17.1
		Geometric mean	6.13	4.8	0.0775	0.073	647.8	0.89	408.9	427.4
		First quartile	2.04	4.4	0.0707	0.067	640	0.9	389.8	418
		Third quartile	8.89	6	0.0888	0.083	660	0.94	424.8	434.8
		90th Percentile	19.33	6.4	0.0929	0.087	670	0.98	444.7	442.4
	February 2026	Average	0.94	7.2	0.0652	0.061	564.0	1.05	386.3	397.8
		Minimum	-3.52	7.2	0.0585	0.055	530	0.94	372	379
		Maximum	5.1	7.2	0.0723	0.068	600	1.1	404	415
		Standard deviation	3.26	0.0	0.0069	0.007	26.1	0.09	11.0	13.4
		Geometric mean	1.51	7.2	0.0650	0.061	563.5	1.04	386.2	397.6
		First quartile	-1.04	7.2	0.0616	0.058	550	1.02	380	389.8
		Third quartile	3.34	7.2	0.0685	0.065	570	1.1	389.5	406.5
		90th Percentile	4.57	7.2	0.0708	0.067	588	1.1	397	411
	March 2026	Average	1.80	4.9	0.0661	0.062	593	0.772	411.3	407.6
		Minimum	-3.61	4	0.0532	0.05	540	<0.50	379	379
		Maximum	8.61	6.1	0.0776	0.073	650	1	437	443
		Standard deviation	4.07	0.9	0.0109	0.010	33	0.304	20.1	19.1
		Geometric mean	2.62	4.9	0.0654	0.062	592	0.696	410.9	407.2
		First quartile	-0.62	4.6	0.0563	0.053	580	0.81	403	407
		Third quartile	2.82	5.1	0.0744	0.07	610	0.97	428	415
		90th Percentile	8.23	5.7	0.0763	0.072	618	0.988	435.4	421.4

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
RBP1 Mine water	November 2025	Average	0.50	7.8	0.50	515.6	0.0000200	0.0000200	0.00337	0.00300
		Minimum	<1.0	2.6	<1.0	510	<0.000040	<0.000040	<0.0060	<0.0060
		Maximum	<1.0	16.6	<1.0	540	<0.000040	<0.000040	0.0074	<0.0060
		Standard deviation	0.00	5.3	0.00	10.1	0.0000000	0.0000000	0.00127	0.00000
		Geometric mean	0.50	6.2	0.50	515.5	0.0000200	0.0000200	0.00323	0.00300
		First quartile	0.5	3.2	1	510	2.00E-05	2.00E-05	0.003	0.003
		Third quartile	0.5	11.3	1	520	2.00E-05	2.00E-05	0.003	0.003
		90th Percentile	0.5	15.4	0.5	524	2.00E-05	2.00E-05	0.003	0.003
		Average	0.50	13.04	0.50	487.9	0.0000182	0.0000165	0.00382	0.00273
	December 2025	Minimum	<1.0	<1.0	<1.0	470	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	39.1	<1.0	510	<0.000040	<0.000040	0.0123	<0.0060
		Standard deviation	0.00	11.15	0.00	12.3	0.0000039	0.0000049	0.00257	0.00059
		Geometric mean	0.50	8.66	0.50	487.7	0.0000176	0.0000157	0.00331	0.00264
		First quartile	0.5	5.4	0.5	480	2.00E-05	1.00E-05	0.003	0.003
		Third quartile	0.5	16.7	0.5	500	2.00E-05	2.00E-05	0.0032	0.003
		90th Percentile	0.5	27.04	0.5	500	2.00E-05	2.00E-05	0.0064	0.003
		Average	0.50	13.8	0.50	479.1	0.00001104	0.00001104	0.00332	0.00170
		Minimum	<1.0	3.4	<1.0	460	<0.0000050	<0.0000050	<0.0030	0.00085
	January 2026	Maximum	<1.0	34.3	<1.0	490	<0.000040	<0.000040	0.0084	<0.0060
		Standard deviation	0.00	8.9	0.00	9.4	0.00000470	0.00000470	0.00199	0.00064
		Geometric mean	0.50	11.6	0.50	479.0	0.00001000	0.00001000	0.00287	0.00161
		First quartile	1	9.2	0.5	475	1.00E-05	1.00E-05	0.0015	0.0015
		Third quartile	1	14.9	0.5	485	1.00E-05	1.00E-05	0.00365	0.0015
		90th Percentile	0.5	21.6	1	490	1.90E-05	1.90E-05	0.00489	0.00285
		Average	0.50	8.5	0.50	467.5	0.0000100	0.0000100	0.00150	0.00150
		Minimum	<1.0	8.5	<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	8.5	<1.0	470	<0.000020	<0.000020	<0.0030	<0.0030
	February 2026	Standard deviation	0.00	0.0	0.00	5.0	0.0000000	0.0000000	0.00000	0.00000
		Geometric mean	0.50	8.5	0.50	467.5	0.0000100	0.0000100	0.00150	0.00150
		First quartile	1	8.5	0.5	467.5	1.00E-05	1.00E-05	0.0015	0.0015
		Third quartile	1	8.5	0.5	470	1.00E-05	1.00E-05	0.0015	0.0015
		90th Percentile	1	8.5	0.5	470	1.00E-05	1.00E-05	0.0015	0.0015
		Average	0.50	17.9	0.50	468.0	0.0000100	0.0000100	0.00512	0.00150
		Minimum	<1.0	5.2	<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	27.7	<1.0	470	<0.000020	<0.000020	0.0222	<0.0030
		Standard deviation	0.00	9.3	0.00	4.5	0.0000000	0.0000000	0.00682	0.00000
	March 2026	Geometric mean	0.50	15.2	0.50	468.0	0.0000100	0.0000100	0.00303	0.00150
		First quartile	0.5	15.3	1	470	2.00E-05	2.00E-05	0.003	0.003
		Third quartile	0.5	21.8	1	470	2.00E-05	2.00E-05	0.0049	0.003
		90th Percentile	0.5	25.4	0.5	470	1.00E-05	1.00E-05	0.01116	0.0015

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
RBP1 Mine water	November 2025	Average	0.00354	0.00354	1.04	1.02	0.0184	0.0178	0.000100	0.000100	0.00100	0.00100
		Minimum	0.00269	0.0027	0.91	0.92	0.0174	0.0167	<0.00020	<0.00020	<0.0020	<0.0020
		Maximum	0.00432	0.00391	1.18	1.13	0.0194	0.0197	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00043	0.00042	0.08	0.06	0.0007	0.0009	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00352	0.00352	1.04	1.02	0.0183	0.0178	0.000100	0.000100	0.00100	0.00100
		First quartile	0.00344	0.00338	0.99	0.97	0.018	0.0172	0.0001	0.0001	0.001	0.001
		Third quartile	0.00379	0.00382	1.08	1.06	0.0188	0.0181	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00389	0.00384	1.13	1.09	0.0193	0.0189	0.0001	0.0001	0.001	0.001
		Average	0.00220	0.00216	1.09	1.068	0.0174	0.0168	0.000091	0.000083	0.00091	0.00083
	December 2025	Minimum	0.00195	0.00195	0.89	0.830	0.0161	0.0155	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00267	0.00279	1.42	1.46	0.0198	0.0186	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00019	0.00025	0.11	0.152	0.0009	0.0008	0.000020	0.000024	0.00020	0.00024
		Geometric mean	0.00220	0.00214	1.09	1.059	0.0173	0.0168	0.000088	0.000079	0.00088	0.00079
		First quartile	0.00209	0.00198	1.02	0.995	0.0168	0.0163	0.0001	5.00E-05	0.001	0.0005
		Third quartile	0.0023	0.00222	1.16	1.08	0.0178	0.0174	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00235	0.0025	1.18	1.236	0.0185	0.0178	0.0001	0.0001	0.001	0.001
		Average	0.00195	0.00201	1.047	0.935	0.0172	0.0166	0.0000546	0.0000546	0.00054188	0.00054187
		Minimum	0.00178	0.00185	0.869	0.821	0.0161	0.015	<0.000010	<0.000010	<0.0000050	<0.0000050
	January 2026	Maximum	0.00227	0.00211	1.29	1.1	0.02	0.0186	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00013	0.00007	0.129	0.090	0.0013	0.0013	0.0000248	0.0000248	0.00025699	0.00025699
		Geometric mean	0.00195	0.00201	1.040	0.932	0.0171	0.0166	0.0000463	0.0000463	0.00036090	0.00036090
		First quartile	0.00188	0.00196	0.953	0.869	0.0166	0.0156	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00199	0.00205	1.14	0.985	0.0169	0.0175	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00205	0.00211	1.203	1.054	0.0193	0.0186	9.50E-05	9.50E-05	0.00095	0.00095
		Average	0.00192	0.00197	0.888	0.856	0.0191	0.0189	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00178	0.00185	0.803	0.811	0.0183	0.0171	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00207	0.00204	1.05	0.903	0.0198	0.0199	<0.00010	<0.00010	<0.0010	<0.0010
	February 2026	Standard deviation	0.00011	0.00007	0.096	0.034	0.0005	0.0010	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00191	0.00197	0.884	0.855	0.0191	0.0188	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00184	0.00195	0.817	0.835	0.0188	0.0185	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00197	0.00201	0.93	0.879	0.0194	0.0195	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00202	0.00203	1	0.893	0.0196	0.0198	5.00E-05	5.00E-05	0.0005	0.0005
		Average	0.00192	0.00192	0.956	0.930	0.0188	0.0197	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00175	0.00181	0.809	0.831	0.0176	0.0184	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00208	0.00207	1.2	1.14	0.0195	0.0261	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00013	0.00008	0.111	0.099	0.0006	0.0024	0.000000	0.000000	0.00000	0.00000
	March 2026	Geometric mean	0.00191	0.00192	0.950	0.926	0.0188	0.0196	0.000050	0.000050	0.00050	0.00050
		First quartile	0.0018	0.00187	0.891	0.868	0.0185	0.0187	0.0001	0.0001	0.001	0.001
		Third quartile	0.00204	0.00195	0.991	0.988	0.0191	0.0194	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00206	0.00201	1.064	1.036	0.0194	0.0211	5.00E-05	5.00E-05	0.0005	0.0005

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
RBP1 Mine water	November 2025	Average	627.8	0.026	183.6	178.0	0.50	0.0000100	0.0000100	12.3
		Minimum	620	0.024	168	162	<1.0	<0.000020	<0.000020	12
		Maximum	650	0.027	197	192	<1.0	<0.000020	<0.000020	13
		Standard deviation	9.7	0.001	9.0	11.1	0.00	0.0000000	0.0000000	0.5
		Geometric mean	627.7	0.026	183.4	177.7	0.50	0.0000100	0.0000100	12.3
		First quartile	620	0.026	177	166	1	1.00E-05	1.00E-05	12
		Third quartile	630	0.026	188.8	187.8	1	1.00E-05	1.00E-05	13
		90th Percentile	634	0.026	192.8	190	0.5	1.00E-05	1.00E-05	13
		Average	596.3	0.0166	166.0	159.7	0.50	0.0000091	0.0000087	8.6
	December 2025	Minimum	570	<0.010	149	137	<1.0	<0.000010	<0.000010	5.8
		Maximum	620	<0.10	193	185	<1.0	<0.000020	0.00002	13
		Standard deviation	13.4	0.0099	11.4	10.7	0.00	0.0000020	0.0000034	1.8
		Geometric mean	596.2	0.0141	165.6	159.4	0.50	0.0000088	0.0000081	8.4
		First quartile	590	0.013	159	154	0.5	1.00E-05	5.00E-06	7.3
		Third quartile	610	0.019	172.8	166	0.5	1.00E-05	1.00E-05	9.6
		90th Percentile	610	0.0204	179.7	170.8	0.5	1.00E-05	1.00E-05	10.2
		Average	583.6	0.0086	143.0	137.5	0.50	0.00000563	0.00000563	6.0
		Minimum	570	<0.010	135	123	<1.0	<0.0000050	<0.0000050	5.1
	January 2026	Maximum	590	0.014	157	156	<1.0	<0.000020	<0.000020	6.9
		Standard deviation	6.7	0.0042	6.1	9.5	0.00	0.00000217	0.00000217	0.6
		Geometric mean	583.6	0.0077	142.9	137.2	0.50	0.00000530	0.00000530	5.9
		First quartile	580	0.005	139.5	131.2	0.5	5.00E-06	5.00E-06	5.6
		Third quartile	590	0.013	144.5	142	0.5	5.00E-06	5.00E-06	6.4
		90th Percentile	590	0.013	149.6	149.2	1	9.50E-06	9.50E-06	6.7
		Average	575.0	0.0103	134.8	129.8	0.50	0.0000050	0.0000050	4.4
		Minimum	570	<0.010	127	123	<1.0	<0.000010	<0.000010	4.2
		Maximum	580	0.02	142	137	<1.0	<0.000010	<0.000010	4.7
	February 2026	Standard deviation	5.8	0.0071	5.3	4.7	0.00	0.0000000	0.0000000	0.2
		Geometric mean	575.0	0.0086	134.7	129.8	0.50	0.0000050	0.0000050	4.4
		First quartile	570	0.005	131.8	127.8	0.5	5.00E-06	5.00E-06	4.3
		Third quartile	580	0.0132	137.8	131	0.5	5.00E-06	5.00E-06	4.6
		90th Percentile	580	0.0173	140	134	0.5	5.00E-06	5.00E-06	4.7
		Average	570.0	0.0088	137.9	138.7	0.50	0.0000050	0.0000058	4.5
		Minimum	560	<0.010	128	128	<1.0	<0.000010	<0.000010	3.7
		Maximum	580	0.012	150	147	<1.0	<0.000010	0.000012	4.9
		Standard deviation	7.1	0.0035	6.6	6.8	0.00	0.0000000	0.0000023	0.5
	March 2026	Geometric mean	570.0	0.0082	137.7	138.5	0.50	0.0000050	0.0000055	4.4
		First quartile	570	0.01	137	136	1	1.00E-05	1.00E-05	4.5
		Third quartile	570	0.011	141	144	1	1.00E-05	1.00E-05	4.6
		90th Percentile	576	0.0116	142.8	146.2	0.5	5.00E-06	6.40E-06	4.8

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
RBP1 Mine water	November 2025	Average	0.000228	0.000225	0.00100	0.00100	0.000200	0.0015	0.0690	15.1	15.2
		Minimum	<0.00040	<0.00040	<0.0020	<0.0020	<0.00040	0.0012	<0.050	11.3	11.5
		Maximum	0.00054	0.0005	<0.0020	<0.0020	<0.00040	0.0018	0.09	16.8	16.4
		Standard deviation	0.000098	0.000087	0.00000	0.00000	0.000000	0.0002	0.0192	1.6	1.6
		Geometric mean	0.000217	0.000216	0.00100	0.00100	0.000200	0.0015	0.0654	15.0	15.1
		First quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0015	0.069	14.5	15.2
		Third quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0017	0.078	16.2	16.2
		90th Percentile	0.0002	0.0002	0.001	0.001	0.0002	0.0018	0.082	16.6	16.4
	December 2025	Average	0.00100	0.00093	0.00091	0.00083	0.000231	0.00189	0.0514	7.84	8.08
		Minimum	0.00044	0.00043	<0.0010	<0.0010	<0.00020	0.00127	<0.050	4.14	4.51
		Maximum	0.00155	0.00152	<0.0020	<0.0020	0.00113	0.0028	0.069	12.8	12.9
		Standard deviation	0.00029	0.00028	0.00020	0.00024	0.000204	0.00039	0.0188	2.20	2.41
		Geometric mean	0.00096	0.00089	0.00088	0.00079	0.000199	0.00185	0.0473	7.54	7.74
		First quartile	0.00081	0.00076	0.001	0.0005	0.0002	0.00164	0.025	6.36	6.2
		Third quartile	0.00121	0.0011	0.001	0.001	0.0002	0.00213	0.066	9.1	9.46
		90th Percentile	0.00143	0.0014	0.001	0.001	0.0002	0.00228	0.068	9.87	11.09
	January 2026	Average	0.00134	0.00132	0.000546	0.000546	0.000162	0.00160	0.0794	4.23	4.37
		Minimum	0.00103	0.00109	<0.00010	<0.00010	<0.00020	0.00113	<0.050	2.98	3.22
		Maximum	0.00203	0.0018	<0.0020	<0.0020	0.00035	0.00278	0.25	5.14	5.23
		Standard deviation	0.00029	0.00023	0.000248	0.000248	0.000078	0.00041	0.0587	0.64	0.60
		Geometric mean	0.00131	0.00130	0.000463	0.000463	0.000148	0.00156	0.0679	4.18	4.32
		First quartile	0.0012	0.00118	0.0005	0.0005	0.0001	0.0015	0.057	4	4.2
		Third quartile	0.00134	0.00135	0.0005	0.0005	0.0002	0.00161	0.0755	4.54	4.7
		90th Percentile	0.00176	0.00171	0.00095	0.00095	0.000227	0.00165	0.083	4.94	4.82
	February 2026	Average	0.00193	0.00190	0.00050	0.00050	0.000177	0.00167	0.078	3.06	3.15
		Minimum	0.00137	0.00132	<0.0010	<0.0010	<0.00020	0.0015	0.067	2.32	2.33
		Maximum	0.00236	0.00239	<0.0010	<0.0010	0.00023	0.00186	0.097	4.54	4.65
		Standard deviation	0.00039	0.00039	0.00000	0.00000	0.000060	0.00015	0.014	0.79	0.82
		Geometric mean	0.00189	0.00186	0.00050	0.00050	0.000166	0.00167	0.077	2.98	3.07
		First quartile	0.0017	0.00171	0.0005	0.0005	0.000128	0.00158	0.067	2.58	2.67
		Third quartile	0.00225	0.00218	0.0005	0.0005	0.00021	0.00179	0.084	3.11	3.3
		90th Percentile	0.00232	0.00231	0.0005	0.0005	0.00022	0.00185	0.092	3.83	4.03
	March 2026	Average	0.00229	0.00227	0.00050	0.00050	0.000339	0.00173	0.063	2.98	3.00
		Minimum	0.00178	0.00176	<0.0010	<0.0010	<0.00020	0.00137	0.053	2.74	2.72
		Maximum	0.00293	0.00296	<0.0010	<0.0010	0.00118	0.00218	0.073	3.23	3.22
		Standard deviation	0.00043	0.00052	0.00000	0.00000	0.000346	0.00034	0.008	0.16	0.19
		Geometric mean	0.00225	0.00222	0.00050	0.00050	0.000240	0.00170	0.063	2.97	2.99
		First quartile	0.00196	0.00182	0.001	0.001	0.0002	0.00145	0.057	2.87	2.88
		Third quartile	0.00275	0.0029	0.001	0.001	0.00031	0.00204	0.07	3.08	3.1
		90th Percentile	0.00279	0.00293	0.0005	0.0005	0.000676	0.00212	0.072	3.12	3.2

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
RBP1 Mine water	November 2025	Average	0.50	6.17	5.92	0.0188	0.0187	21.4	21.0	0.953	0.981
		Minimum	<1.0	5.79	5.59	0.0164	0.0172	20.1	19.5	0.87	0.934
		Maximum	<1.0	6.44	6.32	0.0204	0.0209	22.7	23.8	1.02	1.04
		Standard deviation	0.00	0.19	0.24	0.0013	0.0011	0.6	1.3	0.049	0.040
		Geometric mean	0.50	6.17	5.91	0.0187	0.0187	21.4	21.0	0.952	0.980
		First quartile	1	6.05	5.73	0.0178	0.0179	21.2	19.8	0.911	0.944
		Third quartile	1	6.31	6.1	0.02	0.0192	21.6	21.8	0.993	1.015
		90th Percentile	0.5	6.39	6.24	0.02	0.0199	21.7	22.6	1.009	1.03
	December 2025	Average	0.50	6.05	5.84	0.0156	0.0154	20.8	19.6	0.827	0.865
		Minimum	<1.0	5.6	5.37	0.0126	0.0123	17.6	16.6	0.676	0.715
		Maximum	<1.0	6.92	6.34	0.0207	0.0190	24.6	22.8	0.945	1.02
		Standard deviation	0.00	0.30	0.26	0.0021	0.0017	1.7	1.6	0.076	0.092
		Geometric mean	0.50	6.04	5.83	0.0155	0.0153	20.7	19.5	0.823	0.861
		First quartile	0.5	5.89	5.62	0.014	0.0144	19.8	18.4	0.756	0.78
		Third quartile	0.5	6.12	6.03	0.0168	0.0161	21.2	20.7	0.882	0.917
		90th Percentile	0.5	6.29	6.14	0.0184	0.0171	22.4	21.5	0.925	0.981
	January 2026	Average	0.50	5.59	5.41	0.0135	0.0128	17.1	16.1	0.698	0.712
		Minimum	<1.0	5.27	4.99	0.0115	0.011	15.1	14.5	0.633	0.665
		Maximum	<1.0	5.77	6.05	0.0155	0.0143	19.2	18.8	0.775	0.746
		Standard deviation	0.00	0.14	0.34	0.0012	0.0011	1.0	1.2	0.039	0.025
		Geometric mean	0.50	5.59	5.40	0.0135	0.0127	17.1	16.0	0.697	0.712
		First quartile	0.5	5.53	5.14	0.0133	0.0119	16.8	15.3	0.673	0.696
		Third quartile	0.5	5.66	5.61	0.0141	0.0137	17.7	16.4	0.728	0.73
		90th Percentile	1	5.74	5.75	0.0147	0.0142	17.8	17.3	0.734	0.744
	February 2026	Average	0.50	5.11	5.11	0.0121	0.0118	15.0	15.0	0.648	0.659
		Minimum	<1.0	5.01	5.01	0.0109	0.0105	14	14.6	0.62	0.63
		Maximum	<1.0	5.23	5.25	0.0142	0.0128	15.3	15.9	0.673	0.701
		Standard deviation	0.00	0.09	0.09	0.0014	0.0008	0.5	0.5	0.021	0.030
		Geometric mean	0.50	5.11	5.11	0.0121	0.0118	15.0	15.0	0.648	0.658
		First quartile	0.5	5.05	5.04	0.0112	0.0116	14.9	14.8	0.634	0.633
		Third quartile	0.5	5.17	5.17	0.0131	0.0121	15.3	15.1	0.664	0.678
		90th Percentile	0.5	5.21	5.21	0.0139	0.0125	15.3	15.6	0.669	0.69
	March 2026	Average	0.50	4.98	5.06	0.0125	0.0125	15.3	15.7	0.711	0.711
		Minimum	<1.0	4.59	4.79	0.0109	0.0104	14	13.8	0.656	0.647
		Maximum	<1.0	5.22	5.33	0.0135	0.0139	17.1	17.1	0.783	0.761
		Standard deviation	0.00	0.23	0.19	0.0009	0.0010	0.9	1.0	0.045	0.037
		Geometric mean	0.50	4.98	5.06	0.0124	0.0124	15.3	15.7	0.710	0.710
		First quartile	1	4.94	4.85	0.0121	0.0124	14.9	15.1	0.683	0.689
		Third quartile	1	5.14	5.16	0.013	0.0127	15.4	16.7	0.752	0.729
		90th Percentile	0.5	5.2	5.22	0.0134	0.0137	16.5	16.9	0.769	0.75

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Mo-D	mg/L Mo-T	mg/L Na-D	mg/L Na-T	mg/L Ni-D	mg/L Ni-T	mg/L Pb-D	mg/L Pb-T	mg/L S-T	mg/L S-D
RBP1	November 2025	Average	0.00100	0.00100	378.8	373.8	0.00100	0.00100	0.000200	0.000200	289.2	298.5
Mine water		Minimum	<0.0020	<0.0020	340	335	<0.0020	<0.0020	<0.00040	<0.00040	269	284
		Maximum	<0.0020	<0.0020	392	409	<0.0020	<0.0020	<0.00040	<0.00040	313	315
		Standard deviation	0.00000	0.00000	13.1	26.3	0.00000	0.00000	0.000000	0.000000	11.8	10.5
		Geometric mean	0.00100	0.00100	378.6	372.9	0.00100	0.00100	0.000200	0.000200	288.9	298.3
		First quartile	0.001	0.001	378.8	354	0.001	0.001	0.0002	0.0002	285	288.5
		Third quartile	0.001	0.001	383.8	394.2	0.001	0.001	0.0002	0.0002	294	306.5
		90th Percentile	0.001	0.001	387.8	407	0.001	0.001	0.0002	0.0002	298.5	311.6
	December 2025	Average	0.00091	0.00083	387.4	367.4	0.00119	0.00114	0.000182	0.000165	274.5	283.8
		Minimum	<0.0010	<0.0010	356	319	<0.0010	<0.0010	<0.00020	<0.00020	250	256
		Maximum	<0.0020	<0.0020	437	401	0.0023	0.0023	<0.00040	<0.00040	302	325
		Standard deviation	0.00020	0.00024	18.7	24.6	0.00049	0.00053	0.000039	0.000049	13.5	19.0
		Geometric mean	0.00088	0.00079	386.9	366.6	0.00112	0.00103	0.000176	0.000157	274.2	283.2
		First quartile	0.001	0.0005	378.2	350.5	0.001	0.001	0.0002	0.0001	265	272.5
		Third quartile	0.001	0.001	393.2	385.5	0.001	0.001	0.0002	0.0002	285	289.8
		90th Percentile	0.001	0.001	414.2	398	0.00209	0.00208	0.0002	0.0002	288.8	307.5
	January 2026	Average	0.000561	0.00056	355.7	335.3	0.00168	0.00170	0.00010854	0.0001090	240.8	255.4
		Minimum	0.000226	0.00021	318	307	<0.0020	<0.0020	<0.0000050	0.0000083	216	235
		Maximum	<0.0020	<0.0020	412	386	0.0026	0.0024	<0.00040	<0.00040	269	283
		Standard deviation	0.000220	0.00022	26.1	23.1	0.00047	0.00044	0.00005102	0.0000499	17.9	13.1
		Geometric mean	0.000525	0.00052	354.8	334.6	0.00162	0.00164	0.00008254	0.0000912	240.1	255.1
		First quartile	0.0005	0.0005	335.5	317.8	0.00147	0.00158	0.0001	0.0001	223.8	248
		Third quartile	0.0005	0.0005	369	343.5	0.0018	0.00187	0.0001	0.0001	254.8	260
		90th Percentile	0.00095	0.00095	376.8	359.1	0.00234	0.00235	0.00019	0.00019	264.5	273.5
	February 2026	Average	0.00050	0.00050	305.8	302.3	0.0026	0.0026	0.000100	0.000100	210.0	210.5
		Minimum	<0.0010	<0.0010	287	295	0.0017	0.0017	<0.00020	<0.00020	203	201
		Maximum	<0.0010	<0.0010	320	313	0.0033	0.0034	<0.00020	<0.00020	221	219
		Standard deviation	0.00000	0.00000	12.0	7.2	0.0006	0.0006	0.000000	0.000000	7.0	7.2
		Geometric mean	0.00050	0.00050	305.6	302.3	0.0025	0.0025	0.000100	0.000100	209.9	210.4
		First quartile	0.0005	0.0005	299.5	296	0.0022	0.0023	0.0001	0.0001	204	204.8
		Third quartile	0.0005	0.0005	313	306	0.003	0.003	0.0001	0.0001	213.5	215
		90th Percentile	0.0005	0.0005	317	309.5	0.0032	0.0032	0.0001	0.0001	217.5	217
	March 2026	Average	0.00050	0.00050	298.0	302.7	0.0031	0.0030	0.000100	0.000100	224.3	218.0
		Minimum	<0.0010	<0.0010	286	273	0.0025	0.0024	<0.00020	<0.00020	204	201
		Maximum	<0.0010	<0.0010	321	315	0.0042	0.0039	<0.00020	<0.00020	241	226
		Standard deviation	0.00000	0.00000	11.0	12.9	0.0006	0.0007	0.000000	0.000000	13.8	9.1
		Geometric mean	0.00050	0.00050	297.8	302.4	0.0030	0.0030	0.000100	0.000100	224.0	217.8
		First quartile	0.001	0.001	289	299	0.0026	0.0025	0.0002	0.0002	214	217
		Third quartile	0.001	0.001	301	310	0.0036	0.0038	0.0002	0.0002	238	224
		90th Percentile	0.0005	0.0005	310.6	314.2	0.0037	0.0038	0.0001	0.0001	240.2	226

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026													
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T	
RBP1	November 2025	Average	0.00050	0.00050	0.000155	0.000100	3.88	3.74	0.0050	0.0050	1.97	1.92	
		Minimum	<0.0010	<0.0010	<0.00020	<0.00020	3.28	3.3	<0.010	<0.010	1.8	1.77	
Mine water		Maximum	<0.0010	<0.0010	0.00033	<0.00020	4.28	4.08	<0.010	<0.010	2.21	2.24	
		Standard deviation	0.00000	0.00000	0.000081	0.000000	0.26	0.24	0.0000	0.0000	0.11	0.13	
		Geometric mean	0.00050	0.00050	0.000139	0.000100	3.87	3.73	0.0050	0.0050	1.97	1.91	
		First quartile	0.0005	0.0005	0.0001	0.0001	3.8	3.57	0.005	0.005	1.91	1.83	
		Third quartile	0.0005	0.0005	0.00022	0.0001	4.04	3.92	0.005	0.005	2.04	1.95	
		90th Percentile	0.0005	0.0005	0.00023	0.0001	4.13	4.03	0.005	0.005	2.07	2.03	
		December 2025	Average	0.000455	0.000413	0.000185	0.000083	3.39	3.36	0.00455	0.00413	1.74	1.72
			Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.91	2.89	<0.0050	<0.0050	1.49	1.42
			Maximum	<0.0010	<0.0010	0.00094	<0.00020	4.00	3.74	<0.010	<0.010	2.06	2.04
		Standard deviation	0.000099	0.000122	0.000242	0.000024	0.26	0.19	0.00099	0.00122	0.15	0.14	
		Geometric mean	0.000441	0.000393	0.000123	0.000079	3.38	3.36	0.00441	0.00393	1.73	1.71	
		First quartile	0.0005	0.00025	0.0001	5.00E-05	3.23	3.3	0.005	0.0025	1.62	1.61	
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.6	3.46	0.005	0.005	1.81	1.82	
		90th Percentile	0.0005	0.0005	0.000487	0.0001	3.66	3.58	0.005	0.005	1.95	1.88	
		January 2026	Average	0.0002717	0.0002717	0.000323	0.000208	3.19	3.01	0.002717	0.002717	1.53	1.44
			Minimum	<0.000020	<0.000020	<0.00010	<0.00010	3	2.54	<0.00020	<0.00020	1.39	1.26
			Maximum	<0.0010	<0.0010	0.00115	0.00184	3.42	3.45	<0.010	<0.010	1.67	1.85
			Standard deviation	0.0001268	0.0001268	0.000474	0.000514	0.13	0.26	0.001268	0.001268	0.08	0.15
	Geometric mean		0.0002146	0.0002146	0.000122	0.000076	3.19	3.00	0.002146	0.002146	1.52	1.43	
	First quartile		0.00025	0.00025	5.00E-05	5.00E-05	3.08	2.82	0.0025	0.0025	1.47	1.36	
Third quartile	0.00025		0.00025	0.000335	6.30E-05	3.27	3.22	0.0025	0.0025	1.56	1.47		
90th Percentile	0.000475		0.000475	0.001121	0.0001	3.33	3.24	0.00475	0.00475	1.6	1.52		
February 2026	Average		0.000250	0.000250	0.000050	0.000050	3.11	3.08	0.00250	0.00250	1.37	1.34	
	Minimum		<0.00050	<0.00050	<0.00010	<0.00010	2.98	2.94	<0.0050	<0.0050	1.29	1.24	
	Maximum		<0.00050	<0.00050	<0.00010	<0.00010	3.27	3.23	<0.0050	<0.0050	1.42	1.42	
	Standard deviation		0.000000	0.000000	0.000000	0.000000	0.12	0.11	0.00000	0.00000	0.05	0.08	
	Geometric mean	0.000250	0.000250	0.000050	0.000050	3.11	3.08	0.00250	0.00250	1.37	1.34		
	First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.01	3	0.0025	0.0025	1.33	1.28		
	Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.2	3.14	0.0025	0.0025	1.4	1.42		
	90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.24	3.2	0.0025	0.0025	1.42	1.42		
	March 2026	Average	0.000250	0.000250	0.000050	0.000050	2.99	3.19	0.00250	0.00250	1.43	1.46	
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.49	2.97	<0.0050	<0.0050	1.22	1.32	
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.27	3.61	<0.0050	<0.0050	1.54	1.6	
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.25	0.20	0.00000	0.00000	0.11	0.10	
Geometric mean		0.000250	0.000250	0.000050	0.000050	2.98	3.19	0.00250	0.00250	1.43	1.46		
First quartile		0.0005	0.0005	0.0001	0.0001	2.9	3.04	0.005	0.005	1.39	1.42		
Third quartile		0.0005	0.0005	0.0001	0.0001	3.17	3.26	0.005	0.005	1.54	1.53		
90th Percentile		0.00025	0.00025	5.00E-05	5.00E-05	3.21	3.38	0.0025	0.0025	1.54	1.55		

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L Ti-D	mg/L Ti-T	mg/L U-D	mg/L U-T
RBP1 Mine water	November 2025	Average	0.0050	0.0050	0.0000100	0.0000100	0.000100	0.000100
		Minimum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Standard deviation	0.0000	0.0000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.0050	0.0050	0.0000100	0.0000100	0.000100	0.000100
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Average	0.00455	0.00413	0.0000091	0.0000083	0.000091	0.000083
	December 2025	Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Standard deviation	0.00099	0.00122	0.0000020	0.0000024	0.000020	0.000024
		Geometric mean	0.00441	0.00393	0.0000088	0.0000079	0.000088	0.000079
		First quartile	0.005	0.0025	1.00E-05	5.00E-06	0.0001	5.00E-05
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Average	0.002729	0.002729	0.0000057	0.0000059	0.0000605	0.0000604
		Minimum	<0.00050	<0.00050	0.0000028	<0.000010	<0.00010	<0.00010
	January 2026	Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Standard deviation	0.001241	0.001241	0.0000021	0.0000019	0.0000199	0.0000198
		Geometric mean	0.002316	0.002316	0.0000053	0.0000057	0.0000581	0.0000580
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.10E-06	5.66E-05	5.62E-05
		90th Percentile	0.00475	0.00475	9.50E-06	9.60E-06	9.76E-05	9.75E-05
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
	February 2026	Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
	March 2026	Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
RBP1 Mine water	November 2025	Average	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		Minimum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.0000	0.0000	0.0000	0.0000	0.000000	0.000000
		Geometric mean	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	December 2025	Average	0.00455	0.00413	0.00617	0.00550	0.000091	0.000083
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	0.017	0.019	<0.00020	<0.00020
		Standard deviation	0.00099	0.00122	0.00354	0.00430	0.000020	0.000024
		Geometric mean	0.00441	0.00393	0.00559	0.00461	0.000088	0.000079
		First quartile	0.005	0.0025	0.005	0.0025	0.0001	5.00E-05
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.00918	0.00668	0.0001	0.0001
	January 2026	Average	0.002717	0.002717	0.00331	0.00497	0.000058	0.000058
		Minimum	<0.00020	<0.00020	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	0.0058	0.023	<0.00020	<0.00020
		Standard deviation	0.001268	0.001268	0.00126	0.00581	0.000019	0.000019
		Geometric mean	0.002146	0.002146	0.00312	0.00371	0.000056	0.000056
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.00416	0.00502	5.00E-05	5.00E-05
		90th Percentile	0.00475	0.00475	0.005	0.00564	9.50E-05	9.50E-05
	February 2026	Average	0.00250	0.00250	0.00413	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	0.0067	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00186	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00378	0.00250	0.000050	0.000050
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.00535	0.0025	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	0.00605	0.0025	5.00E-05	5.00E-05
	March 2026	Average	0.00250	0.00250	0.00408	0.00322	0.000050	0.000394
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	0.0104	0.009	<0.00010	0.00315
		Standard deviation	0.00000	0.00000	0.00274	0.00217	0.000000	0.001033
		Geometric mean	0.00250	0.00250	0.00351	0.00288	0.000050	0.000079
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.0052	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.00696	0.0038	5.00E-05	0.00067

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Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV
SP1	November 2025	Average	Mine Water Level	Totilizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F
Settling Pond 1 RBP	November 2025	Average				7.11	8.11	2490.9	8.844	-93.2
		Minimum				7.06	8.11	2390.5	8.166	-105.9
		Maximum				7.19	8.11	2543.6	9.28	-71.2
		Standard deviation				0.05	0.00	47.7	0.365	13.6
		Geometric mean				7.11	8.11	2490.5	8.837	
		First quartile				7.07	8.11	2479	8.657	-103.6
		Third quartile				7.14	8.11	2521.8	9.117	-84.3
	December 2025	90th Percentile				7.17	8.11	2538	9.182	-76.1
		Average				7.01	8.00	2202.9	8.610	156.7
		Minimum				6.95	7.7	2032.8	7.27	111
		Maximum				7.11	8.21	2521.4	9.751	212.8
		Standard deviation				0.04	0.16	160.2	0.570	32.1
		Geometric mean				7.01	7.99	2197.7	8.592	153.8
		First quartile				7	7.9	2100.4	8.365	135.8
	January 2026	Third quartile				7.04	8.11	2230.5	8.867	177.8
		90th Percentile				7.05	8.2	2501.9	9.177	210.2
		Average				6.95	7.82	2097.8	8.771	188.0
		Minimum				6.81	7.53	1791.4	8.536	72.8
		Maximum				7.08	8.04	2383	9.43	232.4
		Standard deviation				0.09	0.14	230.6	0.283	51.1
		Geometric mean				6.95	7.82	2086.3	8.767	179.1
	February 2026	First quartile				6.88	7.8	1909	8.543	169.2
		Third quartile				7.01	7.88	2291.7	8.752	220.6
		90th Percentile				7.03	7.93	2334.4	9.061	224.1
		Average				6.95	8.08	1817.7	8.920	84.0
		Minimum				6.83	7.99	1766.6	7.754	0.5
		Maximum				7.05	8.17	1909	9.524	200.6
		Standard deviation				0.08	0.13	51.8	0.646	96.8
	March 2026	Geometric mean				6.95	8.08	1817.1	8.900	22.7
		First quartile				6.91	8.04	1781.1	8.752	11.1
		Third quartile				7.01	8.12	1826.1	9.227	177.5
		90th Percentile				7.04	8.15	1869.2	9.379	191.4
		Average				6.90		1848.0	9.076	51.9
		Minimum				6.78		1739.8	8.646	-1.1
		Maximum				7		2028.8	9.494	87.3
		Standard deviation				0.08		80.7	0.331	25.7
		Geometric mean				6.90		1846.5	9.071	54.7
		First quartile				6.83		1806.7	8.779	46
		Third quartile				6.96		1878.2	9.41	63.7
		90th Percentile				6.99		1915.7	9.489	80.5

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SP1	November 2025	Average	Turb-F	TSS	H2SEquiv	S2-T	SO4-D	DOC	Hard-T	Hard-D
Settling Pond 1 RBP	November 2025	Average	75.59	30.6			802	1.0	551.6	536.4
		Minimum	50.1	29			680	1	505	501
		Maximum	156.16	33			850	1	588	569
		Standard deviation	37.08	1.5			52	0.0	31.8	24.6
		Geometric mean	70.05	30.6			800	1.0	550.8	535.9
		First quartile	54.32	30			805	1	522.2	519.8
		Third quartile	76.27	31			825	1	574.2	552.2
		90th Percentile	108.85	32.2			843	1	585.2	568.3
	December 2025	Average	39.69	15.6	0.000957	0.00090	694		479	485.6
		Minimum	15.18	3.2	0.000957	<0.0018	640		426	452
		Maximum	52.16	23	0.000957	<0.0018	750		537	534
		Standard deviation	9.86	5.5	0.000000	0.00000	36		29	24.8
		Geometric mean	38.17	14.3	0.000957	0.00090	693		478	485.0
		First quartile	36.67	12.2	0.000957	0.0018	662		458	465
		Third quartile	47.51	19.8	0.000957	0.0018	727		500	508
		90th Percentile	49.19	21.3	0.000957	0.0018	740		510	514.6
	January 2026	Average	19.13	9.9			654.4		421.2	423.6
		Minimum	5.57	9.2			630		392	392
		Maximum	35.3	12			690		456	452
		Standard deviation	10.36	0.9			18.1		20.5	15.7
		Geometric mean	16.12	9.9			654.2		420.8	423.3
		First quartile	13.24	9.2			640		405	419.8
		Third quartile	23.98	10			660		435	430.8
		90th Percentile	32.11	10.6			674		442.5	433.1
	February 2026	Average	11.85				567.5		380.8	387.2
		Minimum	0.7				530		370	364
		Maximum	52.5				620		402	396
		Standard deviation	20.01				37.7		11.5	11.7
		Geometric mean	4.79				566.6		380.7	387.0
		First quartile	2.92				552.5		373.5	388.2
		Third quartile	5.77				575		382.2	392
		90th Percentile	29.16				602		392.5	394
	March 2026	Average	9.06				595		407.1	401.4
		Minimum	3.24				550		380	362
		Maximum	17.18				670		437	444
		Standard deviation	5.10				40		22.0	25.0
		Geometric mean	7.81				594		406.6	400.8
		First quartile	5.4				560		394	390
		Third quartile	12.75				620		432	408
		90th Percentile	16.45				638		436.2	428.8

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
SP1 Settling Pond 1 RBP	November 2025	Average	0.50	0.50	0.50	510.0	0.0000200	0.0000200	0.01363	0.00300
		Minimum	<1.0	<1.0	<1.0	510	<0.000040	<0.000040	<0.0060	<0.0060
		Maximum	<1.0	<1.0	<1.0	510	<0.000040	<0.000040	0.0454	<0.0060
		Standard deviation	0.00	0.00	0.00	0.0	0.0000000	0.0000000	0.01406	0.00000
		Geometric mean	0.50	0.50	0.50	510.0	0.0000200	0.0000200	0.00888	0.00300
		First quartile	1	1	1	510	2.00E-05	2.00E-05	0.003	0.003
		Third quartile	1	1	1	510	2.00E-05	2.00E-05	0.01465	0.003
		90th Percentile	1	1	1	510	2.00E-05	2.00E-05	0.02629	0.003
		Average	0.50	4.77	0.50	480.6	0.0000183	0.0000167	0.03184	0.00275
	December 2025	Minimum	<1.0	<1.0	<1.0	470	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	20.5	<1.0	490	<0.000040	<0.000040	0.129	<0.0060
		Standard deviation	0.00	5.38	0.00	8.3	0.0000038	0.0000049	0.04326	0.00058
		Geometric mean	0.50	2.27	0.50	480.5	0.0000178	0.0000159	0.01407	0.00267
		First quartile	1	1	1	470	2.00E-05	1.00E-05	0.00632	0.003
		Third quartile	1	7.4	1	490	2.00E-05	2.00E-05	0.0336	0.003
		90th Percentile	0.5	9.38	0.5	490	2.00E-05	2.00E-05	0.1155	0.003
		Average	0.50	7.80	0.50	473.3	0.0001100	0.0000120	0.00664	0.00160
		Minimum	<1.0	<1.0	<1.0	460	<0.000020	<0.000020	<0.0060	<0.0020
	January 2026	Maximum	<1.0	14.6	<1.0	480	<0.0020	<0.000040	0.0187	<0.0060
		Standard deviation	0.00	4.26	0.00	7.1	0.0003127	0.0000042	0.00483	0.00052
		Geometric mean	0.50	5.74	0.50	473.3	0.0000170	0.0000115	0.00555	0.00154
		First quartile	0.5	6.75	1	470	1.00E-05	1.00E-05	0.0035	0.0015
		Third quartile	0.5	8.85	1	480	1.00E-05	1.00E-05	0.00725	0.0015
		90th Percentile	0.5	11.48	0.5	480	0.000118	2.00E-05	0.01096	0.00165
		Average			0.50	470.0	0.0000100	0.0000100	0.00425	0.00150
		Minimum			<1.0	470	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum			<1.0	470	<0.000020	<0.000020	0.0064	<0.0030
	February 2026	Standard deviation			0.00	0.0	0.0000000	0.0000000	0.00166	0.00000
		Geometric mean			0.50	470.0	0.0000100	0.0000100	0.00389	0.00150
		First quartile			0.5	470	1.00E-05	1.00E-05	0.00373	0.0015
		Third quartile			0.5	470	1.00E-05	1.00E-05	0.00513	0.0015
		90th Percentile			0.5	470	1.00E-05	1.00E-05	0.00585	0.0015
		Average					0.0000100	0.0000100	0.0096	0.00150
		Minimum					<0.000020	<0.000020	0.0033	<0.0030
		Maximum					<0.000020	<0.000020	0.0208	<0.0030
		Standard deviation					0.0000000	0.0000000	0.0048	0.00000
	March 2026	Geometric mean					0.0000100	0.0000100	0.0086	0.00150
		First quartile					2.00E-05	2.00E-05	0.0073	0.003
		Third quartile					2.00E-05	2.00E-05	0.01	0.003
		90th Percentile					1.00E-05	1.00E-05	0.0129	0.0015
		Average								

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Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
SP1 Settling Pond 1 RBP	November 2025	Average	0.00319	0.00206	1.12	1.07	0.0181	0.0216	0.000100	0.000100	0.00100	0.00100
		Minimum	0.00281	0.0019	0.94	0.92	0.016	0.0183	<0.00020	<0.00020	<0.0020	<0.0020
		Maximum	0.00356	0.00217	1.21	1.18	0.0215	0.0268	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00027	0.00009	0.09	0.08	0.0020	0.0032	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00318	0.00206	1.12	1.06	0.0180	0.0214	0.000100	0.000100	0.00100	0.00100
		First quartile	0.003	0.00203	1.09	1.02	0.0164	0.0186	0.0001	0.0001	0.001	0.001
		Third quartile	0.00338	0.00215	1.19	1.12	0.0194	0.0238	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00354	0.00216	1.2	1.15	0.0202	0.025	0.0001	0.0001	0.001	0.001
		Average	0.00227	0.00153	1.13	1.130	0.0175	0.0186	0.000092	0.000083	0.00092	0.00083
	December 2025	Minimum	0.00194	0.0012	0.89	0.94	0.0163	0.0168	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00306	0.00167	1.3	1.55	0.0186	0.0208	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00030	0.00012	0.11	0.157	0.0008	0.0011	0.000019	0.000024	0.00019	0.00024
		Geometric mean	0.00225	0.00152	1.12	1.121	0.0175	0.0186	0.000089	0.000079	0.00089	0.00079
		First quartile	0.00206	0.00151	1.07	1.032	0.017	0.0178	0.0001	5.00E-05	0.001	0.0005
		Third quartile	0.0023	0.00161	1.21	1.177	0.0184	0.0192	0.0001	0.0001	0.001	0.001
		90th Percentile	0.0027	0.00164	1.27	1.343	0.0184	0.0203	0.0001	0.0001	0.001	0.001
		Average	0.00196	0.00160	1.062	0.967	0.0178	0.0182	0.000150	0.000060	0.00060	0.00060
		Minimum	0.00181	<0.0020	0.832	0.776	0.0161	0.0161	<0.00010	<0.00010	<0.0010	<0.0010
	January 2026	Maximum	0.00224	0.00179	1.25	1.17	0.0199	0.0201	<0.0020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00012	0.00023	0.139	0.136	0.0013	0.0014	0.000299	0.000021	0.00021	0.00021
		Geometric mean	0.00195	0.00159	1.053	0.958	0.0178	0.0181	0.000072	0.000057	0.00057	0.00057
		First quartile	0.00188	0.00155	0.951	0.861	0.0167	0.0169	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00198	0.00175	1.185	1.093	0.0186	0.0191	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00205	0.00176	1.214	1.125	0.0195	0.0197	0.00019	0.0001	0.001	0.001
		Average	0.00191	0.00174	0.894	0.859	0.0198	0.0198	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00176	0.00134	0.822	0.806	0.0192	0.0192	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00203	0.00189	1.02	0.896	0.0208	0.0201	<0.00010	<0.00010	<0.0010	<0.0010
	February 2026	Standard deviation	0.00010	0.00021	0.072	0.036	0.0006	0.0004	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00191	0.00173	0.891	0.859	0.0198	0.0197	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00184	0.00172	0.841	0.839	0.0194	0.0195	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00197	0.00187	0.909	0.888	0.02	0.02	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.002	0.00188	0.965	0.895	0.0204	0.02	5.00E-05	5.00E-05	0.0005	0.0005
		Average	0.00211	0.00181	0.957	0.909	0.0196	0.0202	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00197	0.00164	0.807	0.8	0.0185	0.0186	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00221	0.00194	1.14	1.04	0.0205	0.0207	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00008	0.00012	0.090	0.081	0.0007	0.0006	0.000000	0.000000	0.00000	0.00000
	March 2026	Geometric mean	0.00210	0.00181	0.953	0.906	0.0196	0.0201	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00206	0.00168	0.918	0.858	0.0192	0.0202	0.0001	0.0001	0.001	0.001
		Third quartile	0.00215	0.00191	0.989	0.926	0.0202	0.0205	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00221	0.00194	1.028	1.032	0.0204	0.0206	5.00E-05	5.00E-05	0.0005	0.0005

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
SP1 Settling Pond 1 RBP	November 2025	Average	620.0	0.0050	178.2	184.8	0.50	0.0000100	0.0000134	12.0
		Minimum	620	<0.010	165	166	<1.0	<0.000020	<0.000020	12
		Maximum	620	<0.010	192	198	<1.0	<0.000020	0.000037	12
		Standard deviation	0.0	0.0000	9.7	12.1	0.00	0.0000000	0.0000095	0.0
		Geometric mean	620.0	0.0050	178.0	184.4	0.50	0.0000100	0.0000118	12.0
		First quartile	620	0.01	172.5	175	1	1.00E-05	1.00E-05	12
		Third quartile	620	0.01	184.8	194.2	1	1.00E-05	1.00E-05	12
		90th Percentile	620	0.01	190.6	198	1	1.00E-05	1.81E-05	12
	December 2025	Average	585.3	0.0050	160.9	159.5	0.50	0.0000092	0.0000083	5.7
		Minimum	570	<0.010	148	141	<1.0	<0.000010	<0.000010	5.7
		Maximum	600	<0.010	179	181	<1.0	<0.000020	<0.000020	5.7
		Standard deviation	11.8	0.0000	8.9	10.3	0.00	0.0000019	0.0000024	0.0
		Geometric mean	585.2	0.0050	160.7	159.2	0.50	0.0000089	0.0000079	5.7
		First quartile	580	0.01	153	152.2	1	1.00E-05	5.00E-06	5.7
		Third quartile	600	0.01	167.5	167	1	1.00E-05	1.00E-05	5.7
		90th Percentile	600	0.01	172	170.6	0.5	1.00E-05	1.00E-05	5.7
	January 2026	Average	578.9	0.0094	141.9	141.3	0.50	0.0001050	0.0000060	5.5
		Minimum	570	<0.010	131	133	<1.0	<0.000010	<0.000010	5
		Maximum	590	0.013	152	155	<1.0	<0.0020	<0.000020	5.9
		Standard deviation	7.8	0.0040	5.7	7.3	0.00	0.0003145	0.0000021	0.3
		Geometric mean	578.8	0.0086	141.8	141.1	0.50	0.0000091	0.0000057	5.5
		First quartile	570	0.01	141	134.2	1	5.00E-06	5.00E-06	5.5
		Third quartile	580	0.012	144.5	145.8	1	5.00E-06	5.00E-06	5.7
		90th Percentile	590	0.0126	147.5	146.9	0.5	0.000109	1.00E-05	5.8
	February 2026	Average	570.0		130.5	127.7	0.50	0.0000050	0.0000050	
		Minimum	570		122	122	<1.0	<0.000010	<0.000010	
		Maximum	570		133	136	<1.0	<0.000010	<0.000010	
		Standard deviation	0.0		4.2	4.8	0.00	0.0000000	0.0000000	
		Geometric mean	570.0		130.4	127.6	0.50	0.0000050	0.0000050	
		First quartile	570		132	124.8	0.5	5.00E-06	5.00E-06	
		Third quartile	570		132	128.8	0.5	5.00E-06	5.00E-06	
		90th Percentile	570		132.5	132.5	0.5	5.00E-06	5.00E-06	
	March 2026	Average			135.4	137.4		0.0000050	0.0000064	
		Minimum			121	126		<0.000010	<0.000010	
		Maximum			151	148		<0.000010	0.000012	
		Standard deviation			8.9	7.8		0.0000000	0.0000029	
		Geometric mean			135.2	137.2		0.0000050	0.0000060	
		First quartile			130	133		1.00E-05	1.00E-05	
		Third quartile			138	146		1.00E-05	1.00E-05	
		90th Percentile			144.6	147.2		5.00E-06	1.12E-05	

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Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
SP1 Settling Pond 1 RBP	November 2025	Average	0.000200	0.000200	0.00100	0.00100	0.000200	0.0017	0.0250	13.8	8.88
		Minimum	<0.00040	<0.00040	<0.0020	<0.0020	<0.00040	0.0015	<0.050	13	7.56
		Maximum	<0.00040	<0.00040	<0.0020	<0.0020	<0.00040	0.0020	<0.050	14.8	9.69
		Standard deviation	0.000000	0.000000	0.00000	0.00000	0.000000	0.0002	0.0000	0.7	0.63
		Geometric mean	0.000200	0.000200	0.00100	0.00100	0.000200	0.0017	0.0250	13.8	8.86
		First quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0016	0.05	13.1	8.79
		Third quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0017	0.05	14.2	9.14
		90th Percentile	0.0002	0.0002	0.001	0.001	0.0002	0.0019	0.05	14.7	9.43
	December 2025	Average	0.00099	0.00099	0.00092	0.00083	0.000183	0.00205	0.060	6.55	4.51
		Minimum	0.00058	0.00064	<0.0010	<0.0010	<0.00020	0.00158	0.060	3.88	2.66
		Maximum	0.00154	0.00152	<0.0020	<0.0020	<0.00040	0.0031	0.060	9.07	6.46
		Standard deviation	0.00028	0.00026	0.00019	0.00024	0.000038	0.00045	0.000	1.61	1.16
		Geometric mean	0.00096	0.00096	0.00089	0.00079	0.000178	0.00201	0.060	6.34	4.36
		First quartile	0.00078	0.00081	0.001	0.0005	0.0002	0.00171	0.06	5.12	3.54
		Third quartile	0.00114	0.00108	0.001	0.001	0.0002	0.00225	0.06	7.8	5.42
		90th Percentile	0.00144	0.00143	0.001	0.001	0.0002	0.00254	0.06	8.26	5.82
	January 2026	Average	0.00125	0.00126	0.00060	0.00060	0.000200	0.00152	0.065	4.09	3.08
		Minimum	0.00085	0.00094	<0.0010	<0.0010	<0.00020	0.00122	0.055	2.99	2.68
		Maximum	0.00184	0.00178	<0.0020	<0.0020	<0.0020	0.00184	0.072	5.62	3.91
		Standard deviation	0.00030	0.00024	0.00021	0.00021	0.000283	0.00016	0.007	0.73	0.47
		Geometric mean	0.00122	0.00124	0.00057	0.00057	0.000135	0.00151	0.065	4.03	3.05
		First quartile	0.00104	0.00114	0.0005	0.0005	0.0001	0.00147	0.062	3.98	2.72
		Third quartile	0.00132	0.0013	0.0005	0.0005	0.0001	0.00159	0.071	4.24	3.4
		90th Percentile	0.00168	0.00156	0.001	0.001	0.00028	0.00166	0.072	4.69	3.76
	February 2026	Average	0.00179	0.00175	0.00050	0.00050	0.000150	0.00159		2.89	2.26
		Minimum	0.00119	0.00117	<0.0010	<0.0010	<0.00020	0.00147		2.4	1.96
		Maximum	0.00231	0.00221	<0.0010	<0.0010	0.00026	0.00182		4.05	2.65
		Standard deviation	0.00040	0.00042	0.00000	0.00000	0.000078	0.00014		0.61	0.25
		Geometric mean	0.00176	0.00171	0.00050	0.00050	0.000136	0.00158		2.84	2.25
		First quartile	0.00161	0.0015	0.0005	0.0005	0.0001	0.00149		2.49	2.09
		Third quartile	0.00202	0.00212	0.0005	0.0005	0.000205	0.00166		2.95	2.4
		90th Percentile	0.00217	0.00219	0.0005	0.0005	0.00025	0.00176		3.54	2.54
	March 2026	Average	0.00219	0.00218	0.00050	0.00050	0.000153	0.00178		2.76	2.20
		Minimum	0.00156	0.00157	<0.0010	<0.0010	<0.00020	0.00142		2.43	1.87
		Maximum	0.00294	0.00292	<0.0010	<0.0010	0.00027	0.00203		3.13	2.5
		Standard deviation	0.00048	0.00055	0.00000	0.00000	0.000080	0.00023		0.22	0.19
		Geometric mean	0.00214	0.00212	0.00050	0.00050	0.000137	0.00177		2.75	2.20
		First quartile	0.00188	0.00174	0.001	0.001	0.0002	0.00158		2.61	2.07
		Third quartile	0.00269	0.00282	0.001	0.001	0.00025	0.00194		2.9	2.29
		90th Percentile	0.00276	0.00286	0.0005	0.0005	0.000262	0.00201		2.97	2.39

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
SP1 Settling Pond 1 RBP	November 2025	Average	0.50	6.22	6.33	0.0198	0.0197	22.2	21.9	0.980	0.958
		Minimum	<1.0	5.94	5.75	0.0176	0.0171	20.1	20.2	0.875	0.885
		Maximum	<1.0	6.47	6.79	0.0242	0.0215	23.7	24.4	1.08	1
		Standard deviation	0.00	0.17	0.42	0.0021	0.0017	1.1	1.2	0.081	0.038
		Geometric mean	0.50	6.22	6.32	0.0197	0.0197	22.1	21.9	0.977	0.957
		First quartile	1	6.14	5.98	0.0186	0.0183	21.6	21.5	0.897	0.944
		Third quartile	1	6.28	6.67	0.0203	0.0209	23	22.2	1.045	0.986
		90th Percentile	1	6.42	6.75	0.0216	0.0215	23.4	23.1	1.066	0.996
	December 2025	Average	0.50	5.93	5.86	0.0156	0.0157	20.3	19.6	0.818	0.827
		Minimum	<1.0	5.65	5.47	0.0127	0.0125	17.8	17.6	0.677	0.688
		Maximum	<1.0	6.31	6.07	0.0186	0.019	22.1	22	0.98	0.939
		Standard deviation	0.00	0.17	0.16	0.0018	0.0017	1.1	1.2	0.084	0.078
		Geometric mean	0.50	5.92	5.86	0.0155	0.0157	20.3	19.6	0.814	0.823
		First quartile	1	5.81	5.75	0.0141	0.0147	19.8	18.9	0.747	0.764
		Third quartile	1	6.03	5.97	0.0169	0.0166	20.9	20.3	0.883	0.891
		90th Percentile	0.5	6.07	6.04	0.0174	0.0174	21.9	21.4	0.905	0.907
	January 2026	Average	0.50	5.53	5.51	0.0137	0.0126	16.9	16.6	0.690	0.692
		Minimum	<1.0	5.24	4.99	0.0129	0.0109	15.4	14.4	0.633	0.655
		Maximum	<1.0	5.7	6.01	0.0152	0.014	18.8	19.3	0.756	0.725
		Standard deviation	0.00	0.14	0.32	0.0008	0.0010	1.1	1.3	0.038	0.024
		Geometric mean	0.50	5.53	5.50	0.0137	0.0125	16.9	16.6	0.689	0.691
		First quartile	1	5.49	5.29	0.0132	0.0118	15.8	16	0.664	0.677
		Third quartile	1	5.66	5.71	0.0142	0.0132	17.7	17.1	0.708	0.714
		90th Percentile	0.5	5.66	5.89	0.0146	0.0139	17.9	17.9	0.721	0.721
	February 2026	Average	0.50	5.14	5.04	0.0125	0.0123	14.9	14.9	0.620	0.640
		Minimum	<1.0	4.95	4.97	0.0112	0.0109	14.2	14.4	0.581	0.584
		Maximum	<1.0	5.31	5.21	0.0138	0.013	15.6	16.2	0.651	0.677
		Standard deviation	0.00	0.14	0.09	0.0011	0.0008	0.6	0.7	0.027	0.038
		Geometric mean	0.50	5.14	5.04	0.0124	0.0123	14.9	14.9	0.620	0.639
		First quartile	0.5	5.05	4.98	0.0119	0.0122	14.5	14.5	0.602	0.613
		Third quartile	0.5	5.24	5.05	0.0134	0.0129	15.3	15.1	0.64	0.667
		90th Percentile	0.5	5.29	5.13	0.0138	0.0129	15.5	15.8	0.647	0.673
	March 2026	Average		4.99	5.04	0.0128	0.0127	15.4	15.6	0.684	0.694
		Minimum		4.41	4.73	0.0112	0.01	13.9	14.5	0.631	0.641
		Maximum		5.27	5.22	0.0142	0.0153	16.5	16.7	0.762	0.744
		Standard deviation		0.25	0.16	0.0010	0.0014	0.9	0.9	0.051	0.035
		Geometric mean		4.98	5.04	0.0128	0.0127	15.4	15.6	0.683	0.693
		First quartile		4.94	4.95	0.0122	0.0125	15	14.9	0.652	0.662
		Third quartile		5.1	5.17	0.0133	0.0129	16	16.6	0.735	0.719
		90th Percentile		5.21	5.19	0.0139	0.0142	16.4	16.6	0.755	0.736

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Mo-D	mg/L Mo-T	mg/L Na-D	mg/L Na-T	mg/L Ni-D	mg/L Ni-T	mg/L Pb-D	mg/L Pb-T	mg/L S-T	mg/L S-D
SP1 Settling Pond 1 RBP	November 2025	Average	0.00100	0.00100	391.5	387.8	0.00100	0.00100	0.000200	0.000200	314.4	300.8
		Minimum	<0.0020	<0.0020	363	359	<0.0020	<0.0020	<0.00040	<0.00040	279	287
		Maximum	<0.0020	<0.0020	416	411	<0.0020	<0.0020	<0.00040	<0.00040	344	319
		Standard deviation	0.00000	0.00000	17.0	15.0	0.00000	0.00000	0.000000	0.000000	26.1	13.3
		Geometric mean	0.00100	0.00100	391.2	387.5	0.00100	0.00100	0.000200	0.000200	313.4	300.5
		First quartile	0.001	0.001	382.8	383.8	0.001	0.001	0.0002	0.0002	287.8	288.5
		Third quartile	0.001	0.001	402	395.2	0.001	0.001	0.0002	0.0002	334	313.5
		90th Percentile	0.001	0.001	410.4	402.6	0.001	0.001	0.0002	0.0002	337	316.2
		December 2025	Average	0.00092	0.00083	377.6	366.5	0.00124	0.00134	0.000183	0.000167	272.8
	Minimum	<0.0010	<0.0010	345	343	<0.0020	<0.0010	<0.00020	<0.00020	253	256	
	Maximum	<0.0020	<0.0020	412	412	0.0022	0.0027	<0.00040	<0.00040	290	299	
	Standard deviation	0.00019	0.00024	15.5	19.4	0.00046	0.00067	0.000038	0.000049	11.0	13.2	
	Geometric mean	0.00089	0.00079	377.3	366.0	0.00118	0.00120	0.000178	0.000159	272.6	274.2	
	First quartile	0.001	0.0005	368.5	351.2	0.001	0.001	0.0002	0.0001	265.2	266	
	Third quartile	0.001	0.001	385	377.5	0.001	0.00177	0.0002	0.0002	278	285.5	
	90th Percentile	0.001	0.001	391.6	391.6	0.0021	0.0023	0.0002	0.0002	287.6	293.6	
	January 2026	Average	0.00060	0.00060	348.7	340.0	0.00156	0.00161	0.000200	0.000120	245.8	249.7
	Minimum	<0.0010	<0.0010	319	305	<0.0020	<0.0020	<0.00020	<0.00020	225	232	
	Maximum	<0.0020	<0.0020	378	379	0.0024	0.0023	<0.0020	<0.00040	271	260	
	Standard deviation	0.00021	0.00021	20.0	21.2	0.00048	0.00042	0.000283	0.000042	13.6	8.9	
	Geometric mean	0.00057	0.00057	348.2	339.4	0.00150	0.00156	0.000135	0.000115	245.5	249.6	
	First quartile	0.0005	0.0005	338.5	327.8	0.00118	0.00137	0.0001	0.0001	236.2	245.5	
	Third quartile	0.0005	0.0005	364.5	351.5	0.00177	0.00177	0.0001	0.0001	253.8	257.2	
	90th Percentile	0.001	0.001	375.3	357.4	0.00222	0.00212	0.00028	0.0002	261.1	259.1	
	February 2026	Average	0.00050	0.00050	300.7	296.8	0.0024	0.0024	0.000100	0.000100	206.2	207.5
	Minimum	<0.0010	<0.0010	281	288	0.0016	0.0015	<0.00020	<0.00020	193	198	
	Maximum	<0.0010	<0.0010	311	305	0.0031	0.0032	<0.00020	<0.00020	222	219	
	Standard deviation	0.00000	0.00000	10.3	7.6	0.0006	0.0007	0.000000	0.000000	10.4	8.8	
	Geometric mean	0.00050	0.00050	300.5	296.8	0.0024	0.0023	0.000100	0.000100	205.9	207.3	
	First quartile	0.0005	0.0005	301	290.2	0.0021	0.002	0.0001	0.0001	199	200.5	
	Third quartile	0.0005	0.0005	305	303.2	0.0029	0.0029	0.0001	0.0001	210.5	214.5	
	90th Percentile	0.0005	0.0005	308	305	0.003	0.0032	0.0001	0.0001	216.5	218	
	March 2026	Average	0.00050	0.00050	299.7	298.4	0.0029	0.0029	0.000100	0.000100	219.4	216.4
	Minimum	<0.0010	<0.0010	280	280	0.0021	0.0022	<0.00020	<0.00020	200	195	
	Maximum	<0.0010	<0.0010	315	313	0.0037	0.0038	<0.00020	<0.00020	243	226	
	Standard deviation	0.00000	0.00000	12.3	9.3	0.0006	0.0006	0.000000	0.000000	14.1	9.4	
	Geometric mean	0.00050	0.00050	299.4	298.3	0.0028	0.0029	0.000100	0.000100	219.1	216.3	
	First quartile	0.001	0.001	294	295	0.0025	0.0024	0.0002	0.0002	212	214	
	Third quartile	0.001	0.001	305	304	0.0035	0.0036	0.0002	0.0002	225	221	
	90th Percentile	0.0005	0.0005	313.4	307.4	0.0036	0.0036	0.0001	0.0001	240.6	226	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T
SP1 Settling Pond 1 RBP	November 2025	Average	0.00050	0.00050	0.000100	0.000100	3.77	3.99	0.0050	0.0050	1.93	2.07
		Minimum	<0.0010	<0.0010	<0.00020	<0.00020	3.57	3.63	<0.010	<0.010	1.84	1.78
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	4	4.24	<0.010	<0.010	2.02	2.37
		Standard deviation	0.00000	0.00000	0.000000	0.000000	0.15	0.26	0.0000	0.0000	0.06	0.23
		Geometric mean	0.00050	0.00050	0.000100	0.000100	3.76	3.98	0.0050	0.0050	1.93	2.06
		First quartile	0.0005	0.0005	0.0001	0.0001	3.66	3.77	0.005	0.005	1.91	1.85
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.9	4.2	0.005	0.005	1.96	2.24
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.94	4.23	0.005	0.005	2.01	2.32
		Average	0.000458	0.000417	0.000097	0.000083	3.31	3.39	0.00458	0.00417	1.69	1.71
	December 2025	Minimum	<0.00050	<0.00050	<0.00010	<0.00010	3.1	3.05	<0.0050	<0.0050	1.51	1.49
		Maximum	<0.0010	<0.0010	0.00015	<0.00020	3.62	3.9	<0.010	<0.010	1.89	1.94
		Standard deviation	0.000096	0.000121	0.000021	0.000024	0.15	0.24	0.00096	0.00121	0.12	0.13
		Geometric mean	0.000445	0.000397	0.000095	0.000079	3.30	3.39	0.00445	0.00397	1.68	1.70
		First quartile	0.0005	0.00025	0.0001	5.00E-05	3.17	3.22	0.005	0.0025	1.61	1.6
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.43	3.54	0.005	0.005	1.78	1.81
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.49	3.66	0.005	0.005	1.83	1.88
		Average	0.000350	0.000300	0.000184	0.000060	3.14	3.15	0.00260	0.00300	1.51	1.49
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	3.06	2.91	<0.0020	<0.0050	1.4	1.38
	January 2026	Maximum	<0.0020	<0.0010	<0.0020	<0.00020	3.29	3.44	<0.010	<0.010	1.61	1.83
		Standard deviation	0.000242	0.000105	0.000296	0.000021	0.08	0.20	0.00097	0.00105	0.06	0.13
		Geometric mean	0.000308	0.000287	0.000097	0.000057	3.14	3.15	0.00244	0.00287	1.50	1.49
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.08	2.98	0.0025	0.0025	1.48	1.43
		Third quartile	0.00025	0.00025	0.00016	5.00E-05	3.19	3.32	0.0025	0.0025	1.54	1.51
		90th Percentile	0.00055	0.0005	0.000334	0.0001	3.25	3.4	0.00275	0.005	1.56	1.56
		Average	0.000250	0.000250	0.000050	0.000050	3.03	3.07	0.00250	0.00250	1.36	1.32
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.78	2.93	<0.0050	<0.0050	1.27	1.26
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.28	3.21	<0.0050	<0.0050	1.55	1.39
	February 2026	Standard deviation	0.000000	0.000000	0.000000	0.000000	0.19	0.10	0.00000	0.00000	0.10	0.05
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.03	3.07	0.00250	0.00250	1.36	1.32
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	2.89	3.01	0.0025	0.0025	1.31	1.28
		Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.14	3.15	0.0025	0.0025	1.36	1.36
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.21	3.19	0.0025	0.0025	1.46	1.38
		Average	0.000250	0.000250	0.000050	0.000050	2.99	3.18	0.00250	0.00250	1.42	1.43
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.59	2.93	<0.0050	<0.0050	1.2	1.31
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.3	3.72	<0.0050	<0.0050	1.54	1.53
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.26	0.25	0.00000	0.00000	0.12	0.09
	March 2026	Geometric mean	0.000250	0.000250	0.000050	0.000050	2.98	3.17	0.00250	0.00250	1.42	1.43
		First quartile	0.0005	0.0005	0.0001	0.0001	2.9	2.97	0.005	0.005	1.39	1.36
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.17	3.3	0.005	0.005	1.51	1.52
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.28	3.38	0.0025	0.0025	1.52	1.53

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L TI-D	mg/L TI-T	mg/L U-D	mg/L U-T
SP1 Settling Pond 1 RBP	November 2025	Average	0.0050	0.0050	0.0000100	0.0000100	0.000100	0.000100
		Minimum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Standard deviation	0.0000	0.0000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.0050	0.0050	0.0000100	0.0000100	0.000100	0.000100
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
	December 2025	Average	0.00458	0.00417	0.0000092	0.0000083	0.000092	0.000083
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Standard deviation	0.00096	0.00121	0.0000019	0.0000024	0.000019	0.000024
		Geometric mean	0.00445	0.00397	0.0000089	0.0000079	0.000089	0.000079
		First quartile	0.005	0.0025	1.00E-05	5.00E-06	0.0001	5.00E-05
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
	January 2026	Average	0.00260	0.00300	0.0001050	0.0000060	0.000150	0.000060
		Minimum	<0.0020	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.0020	<0.000020	<0.0020	<0.00020
		Standard deviation	0.00097	0.00105	0.0003145	0.0000021	0.000299	0.000021
		Geometric mean	0.00244	0.00287	0.0000091	0.0000057	0.000072	0.000057
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.00275	0.005	0.000109	1.00E-05	0.00019	0.0001
	February 2026	Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
	March 2026	Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

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River Barrier Pillar Passive Treatment System
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Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
SP1 Settling Pond 1 RBP	November 2025	Average	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		Minimum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.0000	0.0000	0.0000	0.0000	0.000000	0.000000
		Geometric mean	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
		December 2025	Average	0.00458	0.00417	0.00458	0.00417	0.000092
	Minimum		<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
	Maximum		<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
	Standard deviation		0.00096	0.00121	0.00096	0.00121	0.000019	0.000024
	Geometric mean		0.00445	0.00397	0.00445	0.00397	0.000089	0.000079
	First quartile		0.005	0.0025	0.005	0.0025	0.0001	5.00E-05
	Third quartile		0.005	0.005	0.005	0.005	0.0001	0.0001
	90th Percentile		0.005	0.005	0.005	0.005	0.0001	0.0001
	January 2026		Average	0.00260	0.00300	0.00260	0.00300	0.000159
		Minimum	<0.0020	<0.0050	<0.0020	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.0020	<0.00020
		Standard deviation	0.00097	0.00105	0.00097	0.00105	0.000297	0.000021
		Geometric mean	0.00244	0.00287	0.00244	0.00287	0.000080	0.000057
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.0025	0.0025	8.80E-05	5.00E-05
		90th Percentile	0.00275	0.005	0.00275	0.005	0.000226	0.0001
		February 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050
	Minimum		<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
	Maximum		<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
	Standard deviation		0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
	Geometric mean		0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
	First quartile		0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
	Third quartile		0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
	90th Percentile		0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
	March 2026		Average	0.00250	0.00250	0.00250	0.00250	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	0.00013
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000027
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000056
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	6.60E-05

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Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV	mg/L
SP2	November 2025	Average	Mine Water Level	Totilizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F	DO-F
Settling Pond 2 RBP	November 2025	Minimum				7.08	8.03	2349.1	7.807	-92.4	6.93
		Maximum				7.24	8.03	2507	9.121	58	9.52
		Standard deviation				0.06	0.00	54.6	0.578	61.4	0.92
		Geometric mean				7.14	8.03	2447.7	8.423	26.2	8.15
		First quartile				7.1	8.03	2427.5	7.825	-88.8	7.67
		Third quartile				7.18	8.03	2485	8.995	16.4	9.07
		90th Percentile				7.23	8.03	2493.7	9.106	31.9	9.31
	December 2025	Average				7.07	8.05	2192.4	8.458	166.1	8.31
		Minimum				6.96	7.73	2030	7.654	107.6	7.05
		Maximum				7.16	8.23	2500.4	9.716	213	9.1
		Standard deviation				0.05	0.16	154.3	0.536	29.8	0.58
		Geometric mean				7.07	8.05	2187.5	8.442	163.4	8.29
		First quartile				7.05	7.94	2107.8	8.157	149.4	7.93
		Third quartile				7.12	8.19	2206.2	8.707	182.6	8.82
	January 2026	90th Percentile				7.14	8.21	2485.2	9.009	212.6	9
		Average				7.04	7.90	2096.5	8.290	184.8	8.46
		Minimum				6.94	7.75	1796.4	6.673	107.9	7.9
		Maximum				7.27	8.11	2317.4	9.37	226.6	9.09
		Standard deviation				0.11	0.11	191.9	0.756	39.3	0.34
		Geometric mean				7.04	7.90	2088.4	8.257	180.5	8.46
		First quartile				6.95	7.83	1914.8	8.111	156.2	8.25
	February 2026	Third quartile				7.12	7.94	2263.5	8.61	216.8	8.65
		90th Percentile				7.14	8	2285	9.05	221.4	8.79
		Average				7.02	8.12	1799.3	8.594	111.4	8.37
		Minimum				6.85	8	1733.6	7.51	27.7	7.59
		Maximum				7.19	8.25	1908.3	9.37	204.2	8.86
		Standard deviation				0.12	0.18	61.6	0.765	79.1	0.47
		Geometric mean				7.02	8.12	1798.4	8.565	85.2	8.36
	March 2026	First quartile				6.94	8.06	1765.5	8.128	42.9	8.19
		Third quartile				7.1	8.19	1817.2	9.27	179.5	8.73
		90th Percentile				7.15	8.22	1866.3	9.362	194.3	8.82
		Average				6.95		1845.0	9.007	97.6	8.64
		Minimum				6.81		1721.5	8.152	22.3	7.91
		Maximum				7.06		2027.6	9.643	149.2	9.33
		Standard deviation				0.09		85.6	0.558	37.0	0.51
		Geometric mean				6.95		1843.2	8.991	88.2	8.63
		First quartile				6.88		1803	8.591	75.7	8.32
		Third quartile				7.03		1875.2	9.428	120.2	9.1
		90th Percentile				7.04		1934.3	9.539	131.5	9.3

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Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SP2	November 2025	Average	Turb-F	TSS	H2SEquiv	S2-T	SO4-D	DOC	Hard-T	Hard-D
Settling Pond 2 RBP	November 2025	Average	93.13	26.8			767	0.99	564.1	518
		Minimum	62.75	25			530	0.99	532	447
		Maximum	118.27	29			820	0.99	587	581
		Standard deviation	17.70	1.6			98	0.00	18.1	37
		Geometric mean	91.52	26.8			760	0.99	563.9	517
		First quartile	85.2	26			770	0.99	555.5	510
		Third quartile	101.97	28			812	0.99	574.8	530
		90th Percentile	107.9	28.6			820	0.99	584.2	553
	December 2025	Average	61.84	13.9	0.000957	0.00090	693		473.4	485.8
		Minimum	25.32	3.2	0.000957	<0.0018	640		433	443
		Maximum	73.44	20	0.000957	<0.0018	760		525	527
		Standard deviation	11.16	4.6	0.000000	0.000000	36		31.0	22.1
		Geometric mean	60.48	12.9	0.000957	0.00090	692		472.5	485.4
		First quartile	58.4	10.8	0.000957	0.0018	655		437.2	469
		Third quartile	69.71	17.8	0.000957	0.0018	717		496.5	497
		90th Percentile	71.54	18.3	0.000957	0.0018	736		504.3	517.6
	January 2026	Average	31.37	8.6			643.8		412.2	421.4
		Minimum	11.71	7.2			620		384	407
		Maximum	51.03	10			660		446	439
		Standard deviation	11.13	0.9			14.1		21.6	11.0
		Geometric mean	29.27	8.5			643.6		411.7	421.3
		First quartile	24.7	8			637.5		402	415
		Third quartile	36.59	9			652.5		425	427
		90th Percentile	42	9.5			660		445.2	437.4
	February 2026	Average	18.79				560.0		378.3	400.8
		Minimum	7.86				520		357	376
		Maximum	43.74				580		402	414
		Standard deviation	12.66				28.3		19.1	14.3
		Geometric mean	16.24				559.5		377.9	400.6
		First quartile	13.57				550		364.2	395.2
		Third quartile	16.98				580		394.5	410.5
		90th Percentile	30.59				580		400	412.5
	March 2026	Average	20.08				585.6		406.8	405.1
		Minimum	7.33				540		372	369
		Maximum	32.89				630		443	436
		Standard deviation	9.09				26.5		22.8	22.9
		Geometric mean	18.03				585.0		406.2	404.5
		First quartile	14.11				570		391	391
		Third quartile	28.28				600		427	423
		90th Percentile	31.48				606		431	428

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
SP2 Settling Pond 2 RBP	November 2025	Average	0.50	1.6	0.50	490.0	0.0000200	0.0000200	0.01310	0.00300
		Minimum	<1.0	1.6	<1.0	490	<0.000040	<0.000040	<0.0060	<0.0060
		Maximum	<1.0	1.6	<1.0	490	<0.000040	<0.000040	0.0408	<0.0060
		Standard deviation	0.00	0.0	0.00	0.0	0.0000000	0.0000000	0.01278	0.00000
		Geometric mean	0.50	1.6	0.50	490.0	0.0000200	0.0000200	0.00869	0.00300
		First quartile	1	1.6	1	490	2.00E-05	2.00E-05	0.003	0.003
		Third quartile	1	1.6	1	490	2.00E-05	2.00E-05	0.0154	0.003
		90th Percentile	1	1.6	1	490	2.00E-05	2.00E-05	0.02596	0.003
		Average	0.50	3.37	0.50	476.5	0.0000183	0.0000161	0.01849	0.00275
	December 2025	Minimum	<1.0	<1.0	<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	10.9	<1.0	490	<0.000040	<0.000040	0.0604	<0.0060
		Standard deviation	0.00	3.17	0.00	9.3	0.0000038	0.0000050	0.01784	0.00058
		Geometric mean	0.50	2.04	0.50	476.4	0.0000178	0.0000153	0.01168	0.00267
		First quartile	1	1	1	470	2.00E-05	1.00E-05	0.00707	0.003
		Third quartile	1	4.9	1	480	2.00E-05	2.00E-05	0.02125	0.003
		90th Percentile	0.5	8.02	0.5	490	2.00E-05	2.00E-05	0.04791	0.003
		Average	0.50	7.4	0.50	476.2	0.0000100	0.0000122	0.00430	0.00150
		Minimum	<1.0	5	<1.0	460	<0.000020	<0.000020	<0.0060	<0.0030
	January 2026	Maximum	<1.0	10.6	<1.0	490	<0.000020	<0.000040	0.006	<0.0030
		Standard deviation	0.00	2.0	0.00	9.2	0.0000000	0.0000044	0.00118	0.00000
		Geometric mean	0.50	7.2	0.50	476.2	0.0000100	0.0000117	0.00416	0.00150
		First quartile	0.5	6.2	0.5	470	2.00E-05	2.00E-05	0.0032	0.003
		Third quartile	0.5	7.9	0.5	480	2.00E-05	2.00E-05	0.0053	0.003
		90th Percentile	0.5	9.3	0.5	483	1.00E-05	2.00E-05	0.00584	0.0015
		Average			0.50	470.0	0.0000100	0.0000100	0.0057	0.00150
		Minimum			<1.0	470	<0.000020	<0.000020	0.0032	<0.0030
		Maximum			<1.0	470	<0.000020	<0.000020	0.0132	<0.0030
	February 2026	Standard deviation			0.00	0.0	0.0000000	0.0000000	0.0037	0.00000
		Geometric mean			0.50	470.0	0.0000100	0.0000100	0.0050	0.00150
		First quartile			0.5	470	1.00E-05	1.00E-05	0.0039	0.0015
		Third quartile			0.5	470	1.00E-05	1.00E-05	0.0052	0.0015
		90th Percentile			0.5	470	1.00E-05	1.00E-05	0.0093	0.0015
		Average					0.0000100	0.0000100	0.00742	0.00150
		Minimum					<0.000020	<0.000020	<0.0030	<0.0030
		Maximum					<0.000020	<0.000020	0.0134	<0.0030
		Standard deviation					0.0000000	0.0000000	0.00427	0.00000
	March 2026	Geometric mean					0.0000100	0.0000100	0.00607	0.00150
		First quartile					2.00E-05	2.00E-05	0.0035	0.003
		Third quartile					2.00E-05	2.00E-05	0.0098	0.003
		90th Percentile					1.00E-05	1.00E-05	0.01292	0.0015

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
SP2 Settling Pond 2 RBP	November 2025	Average	0.00276	0.00118	1.15	1.10	0.0230	0.0297	0.000100	0.000100	0.00100	0.00100
		Minimum	0.00252	0.00103	0.85	1.03	0.0166	0.0239	<0.00020	<0.00020	<0.0020	<0.0020
		Maximum	0.00300	0.00125	1.27	1.17	0.0381	0.0489	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00017	0.00008	0.13	0.05	0.0067	0.0082	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00276	0.00118	1.14	1.10	0.0223	0.0290	0.000100	0.000100	0.00100	0.00100
		First quartile	0.00262	0.00115	1.15	1.08	0.019	0.0258	0.0001	0.0001	0.001	0.001
		Third quartile	0.00287	0.00123	1.22	1.12	0.0236	0.029	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00294	0.00124	1.25	1.16	0.0297	0.0376	0.0001	0.0001	0.001	0.001
		Average	0.00200	0.00109	1.14	1.115	0.0194	0.0210	0.000092	0.000081	0.00092	0.00081
	December 2025	Minimum	0.0017	0.00069	0.94	0.8	0.0183	0.0188	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00246	0.00125	1.3	1.56	0.0225	0.0246	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00017	0.00014	0.10	0.169	0.0011	0.0016	0.000019	0.000025	0.00019	0.00025
		Geometric mean	0.00199	0.00108	1.14	1.104	0.0193	0.0209	0.000089	0.000076	0.00089	0.00076
		First quartile	0.00191	0.00107	1.08	1.02	0.0186	0.0197	0.0001	5.00E-05	0.001	0.0005
		Third quartile	0.00206	0.00119	1.22	1.165	0.0195	0.0216	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00214	0.00121	1.25	1.326	0.0208	0.0231	0.0001	0.0001	0.001	0.001
		Average	0.00184	0.00139	1.039	0.960	0.0189	0.0197	0.000050	0.000061	0.00050	0.00061
		Minimum	0.00167	0.00117	0.823	0.754	0.0164	0.0181	<0.00010	<0.00010	<0.0010	<0.0010
	January 2026	Maximum	0.00214	0.00162	1.24	1.19	0.0218	0.0228	<0.00010	<0.00020	<0.0010	<0.0020
		Standard deviation	0.00016	0.00017	0.137	0.150	0.0016	0.0016	0.000000	0.000022	0.00000	0.00022
		Geometric mean	0.00183	0.00138	1.030	0.949	0.0188	0.0196	0.000050	0.000058	0.00050	0.00058
		First quartile	0.0017	0.00124	0.932	0.852	0.0177	0.0185	0.0001	0.0001	0.001	0.001
		Third quartile	0.00195	0.0015	1.15	1.1	0.0197	0.0206	0.0001	0.0001	0.001	0.001
		90th Percentile	0.002	0.00156	1.192	1.126	0.0207	0.0218	5.00E-05	0.0001	0.0005	0.001
		Average	0.00202	0.00155	0.909	0.873	0.0210	0.0217	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00168	0.00131	0.809	0.846	0.0189	0.0199	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00244	0.00166	1.09	0.902	0.0241	0.0253	<0.00010	<0.00010	<0.0010	<0.0010
	February 2026	Standard deviation	0.00025	0.00013	0.107	0.021	0.0018	0.0019	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00201	0.00155	0.904	0.873	0.0210	0.0216	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00192	0.00154	0.824	0.857	0.0201	0.0208	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00211	0.00163	0.948	0.883	0.0217	0.0218	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00229	0.00164	1.023	0.893	0.0231	0.0236	5.00E-05	5.00E-05	0.0005	0.0005
		Average	0.00217	0.00167	0.961	0.915	0.0203	0.0212	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00181	0.00128	0.837	0.818	0.0191	0.0201	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00305	0.00231	1.14	1.06	0.0217	0.0229	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00036	0.00031	0.089	0.086	0.0008	0.0008	0.000000	0.000000	0.00000	0.00000
	March 2026	Geometric mean	0.00215	0.00164	0.958	0.911	0.0203	0.0212	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00198	0.00149	0.902	0.84	0.02	0.0208	0.0001	0.0001	0.001	0.001
		Third quartile	0.00216	0.00178	1.01	0.922	0.0209	0.0214	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00249	0.00198	1.036	1.044	0.0211	0.0222	5.00E-05	5.00E-05	0.0005	0.0005

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
SP2 Settling Pond 2 RBP	November 2025	Average	600.0	0.0050	171.8	188.6	0.50	0.0000100	0.0000130	12.0
		Minimum	600	<0.010	149	175	<1.0	<0.000020	<0.000020	12
		Maximum	600	<0.010	195	197	<1.0	<0.000020	0.000034	12
		Standard deviation	0.0	0.0000	13.1	6.9	0.00	0.0000000	0.0000085	0.0
		Geometric mean	600.0	0.0050	171.3	188.5	0.50	0.0000100	0.0000117	12.0
		First quartile	600	0.01	167.8	187.2	1	1.00E-05	1.00E-05	12
		Third quartile	600	0.01	175.2	192.2	1	1.00E-05	1.00E-05	12
		90th Percentile	600	0.01	185.9	196.3	1	1.00E-05	1.72E-05	12
	December 2025	Average	582.9	0.0050	160.5	157.4	0.50	0.0000092	0.0000081	5.9
		Minimum	560	<0.010	147	143	<1.0	<0.000010	<0.000010	5.9
		Maximum	600	<0.010	176	178	<1.0	<0.000020	<0.000020	5.9
		Standard deviation	11.0	0.0000	7.8	11.1	0.00	0.0000019	0.0000025	0.0
		Geometric mean	582.8	0.0050	160.3	157.1	0.50	0.0000089	0.0000076	5.9
		First quartile	580	0.01	155.2	145.2	1	1.00E-05	5.00E-06	5.9
		Third quartile	590	0.01	164.5	166	1	1.00E-05	1.00E-05	5.9
		90th Percentile	594	0.01	172.3	168.3	0.5	1.00E-05	1.00E-05	5.9
	January 2026	Average	578.8	0.0110	141.2	138.0	0.50	0.0000050	0.0000061	5.7
		Minimum	560	<0.010	137	130	<1.0	<0.000010	<0.000010	5.3
		Maximum	590	0.014	147	149	<1.0	<0.000010	<0.000020	6.2
		Standard deviation	9.9	0.0037	3.4	6.5	0.00	0.0000000	0.0000022	0.4
		Geometric mean	578.7	0.0103	141.2	137.9	0.50	0.0000050	0.0000058	5.7
		First quartile	577.5	0.01	138	135	0.5	1.00E-05	1.00E-05	5.5
		Third quartile	582.5	0.013	143	142	0.5	1.00E-05	1.00E-05	5.9
		90th Percentile	590	0.0136	145.4	147.4	0.5	5.00E-06	1.00E-05	6.1
	February 2026	Average	570.0		135.8	126.8	0.50	0.0000050	0.0000050	
		Minimum	570		125	118	<1.0	<0.000010	<0.000010	
		Maximum	570		141	136	<1.0	<0.000010	<0.000010	
		Standard deviation	0.0		5.8	7.3	0.00	0.0000000	0.0000000	
		Geometric mean	570.0		135.7	126.7	0.50	0.0000050	0.0000050	
		First quartile	570		134.8	122	0.5	5.00E-06	5.00E-06	
		Third quartile	570		139	132.8	0.5	5.00E-06	5.00E-06	
		90th Percentile	570		140	135	0.5	5.00E-06	5.00E-06	
	March 2026	Average			136.8	137.1		0.0000077	0.0000079	
		Minimum			122	126		<0.000010	<0.000010	
		Maximum			148	150		0.000029	0.000018	
		Standard deviation			8.5	7.9		0.0000080	0.0000048	
		Geometric mean			136.5	136.9		0.0000061	0.0000069	
		First quartile			131	132		1.00E-05	1.00E-05	
		Third quartile			143	143		1.00E-05	1.00E-05	
		90th Percentile			144.8	145.2		9.80E-06	1.40E-05	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
SP2 Settling Pond 2 RBP	November 2025	Average	0.000230	0.000229	0.00100	0.00100	0.000200	0.0015	0.076	12.0	3.92
		Minimum	<0.00040	<0.00040	<0.0020	<0.0020	<0.00040	0.0013	0.076	10.3	3.35
		Maximum	0.00044	0.00043	<0.0020	<0.0020	<0.00040	0.0017	0.076	12.9	4.55
		Standard deviation	0.000085	0.000081	0.00000	0.00000	0.000000	0.0001	0.000	0.8	0.45
		Geometric mean	0.000221	0.000220	0.00100	0.00100	0.000200	0.0015	0.076	11.9	3.90
		First quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0014	0.076	11.8	3.61
		Third quartile	0.0002	0.0002	0.001	0.001	0.0002	0.0015	0.076	12.3	4.29
		90th Percentile	0.000272	0.000269	0.001	0.001	0.0002	0.0016	0.076	12.8	4.45
	December 2025	Average	0.00096	0.00094	0.00092	0.00081	0.000183	0.00200	0.0250	5.90	2.25
		Minimum	0.00055	0.00059	<0.0010	<0.0010	<0.00020	0.0013	<0.050	3.52	1.32
		Maximum	0.00147	0.00153	<0.0020	<0.0020	<0.00040	0.00367	<0.050	7.61	3.35
		Standard deviation	0.00027	0.00026	0.00019	0.00025	0.000038	0.00056	0.0000	1.38	0.71
		Geometric mean	0.00092	0.00091	0.00089	0.00076	0.000178	0.00194	0.0250	5.73	2.14
		First quartile	0.00075	0.00078	0.001	0.0005	0.0002	0.00178	0.05	4.72	1.5
		Third quartile	0.00113	0.00103	0.001	0.001	0.0002	0.00208	0.05	7.03	2.9
		90th Percentile	0.00141	0.00139	0.001	0.001	0.0002	0.00247	0.05	7.32	3.09
	January 2026	Average	0.00121	0.00121	0.00050	0.00061	0.000100	0.00151	0.068	3.66	1.69
		Minimum	0.00079	0.00082	<0.0010	<0.0010	<0.00020	0.00132	0.054	2.71	1.17
		Maximum	0.00179	0.00166	<0.0010	<0.0020	<0.00020	0.00162	0.078	4.55	2.49
		Standard deviation	0.00031	0.00027	0.00000	0.00022	0.000000	0.00009	0.009	0.55	0.45
		Geometric mean	0.00118	0.00118	0.00050	0.00058	0.000100	0.00150	0.067	3.62	1.64
		First quartile	0.00106	0.00111	0.001	0.001	0.0002	0.00148	0.063	3.62	1.21
		Third quartile	0.00123	0.0012	0.001	0.001	0.0002	0.00157	0.072	3.75	1.8
		90th Percentile	0.00163	0.00163	0.0005	0.001	0.0001	0.0016	0.076	4.3	2.19
	February 2026	Average	0.00175	0.00171	0.00050	0.00050	0.000140	0.00172		2.71	1.384
		Minimum	0.00103	0.00104	<0.0010	<0.0010	<0.00020	0.0013		2.28	0.375
		Maximum	0.00224	0.00219	<0.0010	<0.0010	0.00023	0.00268		3.31	2.06
		Standard deviation	0.00044	0.00041	0.00000	0.00000	0.000062	0.00049		0.36	0.560
		Geometric mean	0.00170	0.00166	0.00050	0.00050	0.000130	0.00167		2.69	1.234
		First quartile	0.00157	0.00154	0.0005	0.0005	0.0001	0.0015		2.49	1.377
		Third quartile	0.00205	0.002	0.0005	0.0005	0.000182	0.00166		2.85	1.62
		90th Percentile	0.00216	0.00212	0.0005	0.0005	0.00022	0.00218		3.1	1.875
	March 2026	Average	0.00210	0.00211	0.00050	0.00050	0.000111	0.00167		2.61	1.358
		Minimum	0.00148	0.00149	<0.0010	<0.0010	<0.00020	0.0013		2.29	0.966
		Maximum	0.00284	0.00286	<0.0010	<0.0010	0.0002	0.00203		3.04	1.73
		Standard deviation	0.00047	0.00054	0.00000	0.00000	0.000033	0.00027		0.22	0.306
		Geometric mean	0.00205	0.00205	0.00050	0.00050	0.000108	0.00165		2.60	1.327
		First quartile	0.00172	0.00164	0.001	0.001	0.0002	0.00144		2.48	1.09
		Third quartile	0.00257	0.00272	0.001	0.001	0.0002	0.00181		2.71	1.61
		90th Percentile	0.00262	0.00279	0.0005	0.0005	0.00012	0.00201		2.87	1.682

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
SP2 Settling Pond 2 RBP	November 2025	Average	0.50	6.16	6.59	0.0196	0.0195	21.8	22.6	0.998	0.927
		Minimum	<1.0	5.38	6.07	0.016	0.0186	18.3	20.7	0.902	0.81
		Maximum	<1.0	6.62	7.14	0.0256	0.0207	23.3	24.6	1.06	1.05
		Standard deviation	0.00	0.41	0.34	0.0027	0.0006	1.7	1.3	0.053	0.072
		Geometric mean	0.50	6.15	6.58	0.0194	0.0195	21.7	22.6	0.997	0.925
		First quartile	1	5.99	6.43	0.0186	0.0194	21.1	21.6	0.971	0.903
		Third quartile	1	6.39	6.81	0.0198	0.0196	22.7	23.4	1.035	0.952
		90th Percentile	1	6.52	6.97	0.0217	0.0201	22.9	24	1.053	0.981
	December 2025	Average	0.50	5.93	5.83	0.0154	0.0154	20.7	19.4	0.787	0.800
		Minimum	<1.0	5.63	5.45	0.0126	0.0124	18.2	17.5	0.663	0.693
		Maximum	<1.0	6.19	6.05	0.0184	0.0184	23.4	21.7	0.902	0.902
		Standard deviation	0.00	0.15	0.19	0.0017	0.0017	1.2	1.3	0.081	0.067
		Geometric mean	0.50	5.93	5.82	0.0153	0.0153	20.6	19.4	0.783	0.797
		First quartile	1	5.85	5.71	0.0138	0.0146	19.9	18.4	0.709	0.743
		Third quartile	1	6.05	5.96	0.0167	0.0165	21.2	20.1	0.851	0.852
		90th Percentile	0.5	6.14	6.01	0.0172	0.0172	22.1	20.9	0.887	0.873
	January 2026	Average	0.50	5.51	5.45	0.0135	0.0122	16.7	16.3	0.667	0.677
		Minimum	<1.0	5.2	5.01	0.0117	0.0098	15	14.5	0.614	0.637
		Maximum	<1.0	5.75	5.79	0.0157	0.014	18.5	18.8	0.729	0.732
		Standard deviation	0.00	0.16	0.28	0.0012	0.0014	1.1	1.4	0.040	0.031
		Geometric mean	0.50	5.51	5.44	0.0135	0.0122	16.7	16.2	0.666	0.677
		First quartile	0.5	5.48	5.28	0.0129	0.0121	15.8	15.5	0.643	0.659
		Third quartile	0.5	5.63	5.62	0.0142	0.013	17.5	16.8	0.706	0.697
		90th Percentile	0.5	5.66	5.68	0.0152	0.0138	17.8	18	0.711	0.711
	February 2026	Average	0.50	5.20	5.11	0.0124	0.0125	15.0	15.0	0.605	0.620
		Minimum	<1.0	5	4.82	0.0112	0.0111	14.1	14.5	0.512	0.525
		Maximum	<1.0	5.4	5.38	0.0138	0.0139	16.1	15.5	0.659	0.676
		Standard deviation	0.00	0.18	0.18	0.0012	0.0010	0.7	0.4	0.057	0.052
		Geometric mean	0.50	5.20	5.11	0.0124	0.0125	15.0	15.0	0.602	0.618
		First quartile	0.5	5.05	5.07	0.0115	0.0121	14.7	14.6	0.575	0.614
		Third quartile	0.5	5.36	5.16	0.0134	0.0131	15.3	15.2	0.649	0.651
		90th Percentile	0.5	5.39	5.27	0.0138	0.0136	15.8	15.4	0.657	0.667
	March 2026	Average		5.02	5.03	0.0129	0.0127	15.4	15.6	0.676	0.673
		Minimum		4.66	4.65	0.0117	0.0103	14.2	13.9	0.616	0.607
		Maximum		5.28	5.36	0.0146	0.015	16.7	17	0.755	0.724
		Standard deviation		0.21	0.21	0.0010	0.0014	0.7	1.1	0.055	0.038
		Geometric mean		5.02	5.03	0.0129	0.0126	15.4	15.6	0.674	0.672
		First quartile		4.91	4.98	0.0122	0.0118	15.1	15	0.631	0.647
		Third quartile		5.14	5.13	0.0134	0.0131	15.7	16.5	0.731	0.705
		90th Percentile		5.21	5.2	0.014	0.014	16.2	16.8	0.75	0.714

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Mo-D	mg/L Mo-T	mg/L Na-D	mg/L Na-T	mg/L Ni-D	mg/L Ni-T	mg/L Pb-D	mg/L Pb-T	mg/L S-T	mg/L S-D
SP2	November 2025	Average	0.00100	0.00100	382.4	400.1	0.00100	0.00100	0.000200	0.000200	324.0	298.0
Settling Pond 2 RBP		Minimum	<0.0020	<0.0020	317	382	<0.0020	<0.0020	<0.00040	<0.00040	291	246
		Maximum	<0.0020	<0.0020	413	416	<0.0020	<0.0020	<0.00040	<0.00040	352	338
		Standard deviation	0.00000	0.00000	29.6	11.6	0.00000	0.00000	0.000000	0.000000	18.4	26.3
		Geometric mean	0.00100	0.00100	381.3	400.0	0.00100	0.00100	0.000200	0.000200	323.5	296.9
		First quartile	0.001	0.001	376.2	392.5	0.001	0.001	0.0002	0.0002	318.8	294
		Third quartile	0.001	0.001	397.8	407.8	0.001	0.001	0.0002	0.0002	331.2	308.2
		90th Percentile	0.001	0.001	406	413.9	0.001	0.001	0.0002	0.0002	338	319.8
	December 2025	Average	0.00092	0.00081	377.1	359.7	0.00123	0.00143	0.000183	0.000161	272.8	274.4
		Minimum	<0.0010	<0.0010	345	319	<0.0020	<0.0010	<0.00020	<0.00020	244	257
		Maximum	<0.0020	<0.0020	411	398	0.0021	0.0055	<0.00040	<0.00040	304	298
		Standard deviation	0.00019	0.00025	16.2	21.2	0.00044	0.00115	0.000038	0.000050	15.6	10.8
		Geometric mean	0.00089	0.00076	376.7	359.1	0.00117	0.00117	0.000178	0.000153	272.4	274.2
		First quartile	0.001	0.0005	367.5	347.5	0.001	0.001	0.0002	0.0001	262.2	268.5
		Third quartile	0.001	0.001	386.8	369.8	0.001	0.00172	0.0002	0.0002	284.2	277.8
		90th Percentile	0.001	0.001	393.6	391.6	0.0021	0.00216	0.0002	0.0002	288.4	289.8
	January 2026	Average	0.00050	0.00061	343.0	337.3	0.0016	0.00154	0.000100	0.000122	242.0	245.2
		Minimum	<0.0010	<0.0010	311	292	0.001	<0.0020	<0.00020	<0.00020	209	231
		Maximum	<0.0010	<0.0020	374	365	0.0024	0.0023	<0.00020	<0.00040	267	260
		Standard deviation	0.00000	0.00022	21.1	27.3	0.0004	0.00045	0.000000	0.000044	17.6	8.7
		Geometric mean	0.00050	0.00058	342.4	336.3	0.0016	0.00149	0.000100	0.000117	241.4	245.1
	First quartile	0.001	0.001	336	325	0.0014	0.0012	0.0002	0.0002	232	242	
	Third quartile	0.001	0.001	357	359	0.0017	0.0016	0.0002	0.0002	253	246	
	90th Percentile	0.0005	0.001	372.4	364.2	0.0022	0.00214	0.0001	0.0002	262.2	257.6	
February 2026	Average	0.00050	0.00050	303.2	298.8	0.0024	0.0023	0.000100	0.000100	205.8	209.0	
	Minimum	<0.0010	<0.0010	283	290	0.0014	0.0014	<0.00020	<0.00020	189	194	
	Maximum	<0.0010	<0.0010	326	307	0.0031	0.0031	<0.00020	<0.00020	221	225	
	Standard deviation	0.00000	0.00000	14.9	6.9	0.0007	0.0007	0.000000	0.000000	11.7	11.4	
	Geometric mean	0.00050	0.00050	302.9	298.8	0.0023	0.0022	0.000100	0.000100	205.6	208.7	
	First quartile	0.0005	0.0005	296	294.2	0.0021	0.002	0.0001	0.0001	200.5	202	
	Third quartile	0.0005	0.0005	310.5	304.8	0.0029	0.0029	0.0001	0.0001	214.2	216.2	
	90th Percentile	0.0005	0.0005	319.5	306.5	0.003	0.003	0.0001	0.0001	219	221.5	
March 2026	Average	0.00050	0.00050	298.8	298.7	0.0028	0.0028	0.000100	0.000100	219.6	217.9	
	Minimum	<0.0010	<0.0010	284	273	0.002	0.002	<0.00020	<0.00020	190	209	
	Maximum	<0.0010	<0.0010	316	311	0.0035	0.0037	<0.00020	<0.00020	246	236	
	Standard deviation	0.00000	0.00000	9.8	11.9	0.0006	0.0007	0.000000	0.000000	15.8	9.1	
	Geometric mean	0.00050	0.00050	298.6	298.4	0.0028	0.0028	0.000100	0.000100	219.0	217.7	
	First quartile	0.001	0.001	290	295	0.0024	0.0022	0.0002	0.0002	215	211	
	Third quartile	0.001	0.001	305	310	0.0034	0.0036	0.0002	0.0002	226	219	
	90th Percentile	0.0005	0.0005	308	311	0.0035	0.0036	0.0001	0.0001	238	230.4	

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T
SP2 Settling Pond 2 RBP	November 2025	Average	0.00050	0.00050	0.000100	0.000100	3.60	4.04	0.0050	0.0050	1.85	2.11
		Minimum	<0.0010	<0.0010	<0.00020	<0.00020	3.08	3.67	<0.010	<0.010	1.61	1.84
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	4.03	4.32	<0.010	<0.010	2.01	2.29
		Standard deviation	0.00000	0.00000	0.000000	0.000000	0.26	0.20	0.0000	0.0000	0.12	0.13
		Geometric mean	0.00050	0.00050	0.000100	0.000100	3.59	4.04	0.0050	0.0050	1.85	2.10
		First quartile	0.0005	0.0005	0.0001	0.0001	3.58	3.99	0.005	0.005	1.81	2.07
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.66	4.16	0.005	0.005	1.91	2.19
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.77	4.22	0.005	0.005	1.96	2.24
		December 2025	Average	0.000458	0.000403	0.000092	0.000081	3.26	3.35	0.00458	0.00403	1.68
	Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.98	3	<0.0050	<0.0050	1.52	1.47	
	Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.54	3.76	<0.010	<0.010	1.89	1.95	
	Standard deviation	0.000096	0.000125	0.000019	0.000025	0.16	0.22	0.00096	0.00125	0.11	0.14	
	Geometric mean	0.000445	0.000382	0.000089	0.000076	3.26	3.34	0.00445	0.00382	1.68	1.68	
	First quartile	0.0005	0.00025	0.0001	5.00E-05	3.17	3.18	0.005	0.0025	1.59	1.56	
	Third quartile	0.0005	0.0005	0.0001	0.0001	3.39	3.49	0.005	0.005	1.73	1.79	
	90th Percentile	0.0005	0.0005	0.0001	0.0001	3.48	3.64	0.005	0.005	1.85	1.82	
	January 2026	Average	0.000250	0.000306	0.000056	0.000061	3.16	3.08	0.00250	0.00306	1.51	1.44
	Minimum	<0.00050	<0.00050	<0.00010	<0.00010	3.04	2.9	<0.0050	<0.0050	1.39	1.32	
	Maximum	<0.00050	<0.0010	0.0001	<0.00020	3.33	3.31	<0.0050	<0.010	1.67	1.54	
	Standard deviation	0.000000	0.000110	0.000017	0.000022	0.08	0.15	0.00000	0.00110	0.09	0.06	
	Geometric mean	0.000250	0.000292	0.000054	0.000058	3.16	3.08	0.00250	0.00292	1.51	1.44	
	First quartile	0.0005	0.0005	0.0001	0.0001	3.13	2.94	0.005	0.005	1.47	1.41	
	Third quartile	0.0005	0.0005	0.0001	0.0001	3.18	3.22	0.005	0.005	1.57	1.48	
	90th Percentile	0.00025	0.0005	6.00E-05	0.0001	3.26	3.25	0.0025	0.005	1.61	1.49	
	February 2026	Average	0.000250	0.000250	0.000050	0.000050	3.13	3.08	0.00250	0.00250	1.36	1.33
	Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.99	2.93	<0.0050	<0.0050	1.25	1.23	
	Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.36	3.19	<0.0050	<0.0050	1.54	1.46	
	Standard deviation	0.000000	0.000000	0.000000	0.000000	0.15	0.10	0.00000	0.00000	0.11	0.11	
	Geometric mean	0.000250	0.000250	0.000050	0.000050	3.13	3.08	0.00250	0.00250	1.36	1.32	
	First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.01	3.01	0.0025	0.0025	1.27	1.23	
	Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.23	3.16	0.0025	0.0025	1.4	1.41	
	90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.31	3.17	0.0025	0.0025	1.48	1.44	
	March 2026	Average	0.000250	0.000250	0.000050	0.000050	3.05	3.21	0.00250	0.00250	1.42	1.43
	Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.66	2.98	<0.0050	<0.0050	1.25	1.32	
	Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.36	3.67	<0.0050	<0.0050	1.54	1.57	
	Standard deviation	0.000000	0.000000	0.000000	0.000000	0.23	0.24	0.00000	0.00000	0.10	0.10	
	Geometric mean	0.000250	0.000250	0.000050	0.000050	3.04	3.21	0.00250	0.00250	1.42	1.42	
	First quartile	0.0005	0.0005	0.0001	0.0001	2.93	3.01	0.005	0.005	1.4	1.34	
	Third quartile	0.0005	0.0005	0.0001	0.0001	3.13	3.34	0.005	0.005	1.49	1.5	
	90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.34	3.5	0.0025	0.0025	1.52	1.56	

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L TI-D	mg/L TI-T	mg/L U-D	mg/L U-T
SP2 Settling Pond 2 RBP	November 2025	Average	0.0050	0.0050	0.0000100	0.0000100	0.000114	0.000116
		Minimum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.000020	<0.000020	0.00021	0.00023
		Standard deviation	0.0000	0.0000	0.0000000	0.0000000	0.000039	0.000046
		Geometric mean	0.0050	0.0050	0.0000100	0.0000100	0.000110	0.000111
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.000133	0.000139
		Average	0.00458	0.00403	0.0000092	0.0000081	0.000092	0.000084
	December 2025	Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	0.00011
		Standard deviation	0.00096	0.00125	0.0000019	0.0000025	0.000019	0.000025
		Geometric mean	0.00445	0.00382	0.0000089	0.0000076	0.000089	0.000080
		First quartile	0.005	0.0025	1.00E-05	5.00E-06	0.0001	5.00E-05
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Average	0.00250	0.00306	0.0000050	0.0000061	0.000050	0.000061
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
	January 2026	Maximum	<0.0050	<0.010	<0.000010	<0.000020	<0.00010	<0.00020
		Standard deviation	0.00000	0.00110	0.0000000	0.0000022	0.000000	0.000022
		Geometric mean	0.00250	0.00292	0.0000050	0.0000058	0.000050	0.000058
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.005	5.00E-06	1.00E-05	5.00E-05	0.0001
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
	February 2026	Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
	March 2026	Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
SP2 Settling Pond 2 RBP	November 2025	Average	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		Minimum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.0000	0.0000	0.0000	0.0000	0.000000	0.000000
		Geometric mean	0.0050	0.0050	0.0050	0.0050	0.000100	0.000100
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	December 2025	Average	0.00458	0.00403	0.00458	0.00403	0.000092	0.000081
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00096	0.00125	0.00096	0.00125	0.000019	0.000025
		Geometric mean	0.00445	0.00382	0.00445	0.00382	0.000089	0.000076
		First quartile	0.005	0.0025	0.005	0.0025	0.0001	5.00E-05
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	January 2026	Average	0.00250	0.00306	0.00250	0.00306	0.000050	0.000061
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.010	<0.0050	<0.010	<0.00010	<0.00020
		Standard deviation	0.00000	0.00110	0.00000	0.00110	0.000000	0.000022
		Geometric mean	0.00250	0.00292	0.00250	0.00292	0.000050	0.000058
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.005	0.0025	0.005	5.00E-05	0.0001
	February 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
	March 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV	mg/L
SP3S	December 2025		Mine Water Level	Totilizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F	DO-F
Settling Pond 3 Surface		Average				7.13	8.03	2133.3	8.145	170.2	8.49
		Minimum				7.01	7.76	2011	6.869	111.3	7.52
		Maximum				7.22	8.22	2447.1	9.67	214.8	10.12
		Standard deviation				0.05	0.13	132.1	0.700	28.9	0.69
		Geometric mean				7.13	8.02	2129.7	8.117	167.8	8.47
		First quartile				7.09	7.97	2038.3	7.848	150.9	8.08
		Third quartile				7.16	8.11	2146.2	8.434	184.6	8.81
	January 2026	90th Percentile				7.2	8.15	2333.4	8.864	211.6	9.37
		Average				7.15	7.95	2040.6	8.058	219.4	8.96
		Minimum				6.82	7.79	1780.1	7.134	139.9	8.55
		Maximum				7.46	8.12	2267	9.208	277	9.7
		Standard deviation				0.23	0.10	204.9	0.646	38.7	0.42
		Geometric mean				7.15	7.95	2031.4	8.035	216.0	8.96
		First quartile				7.02	7.88	1874.5	7.712	200.6	8.67
	February 2026	Third quartile				7.39	8	2254.2	8.549	246.2	9.04
		90th Percentile				7.46	8.04	2266.1	8.795	252.7	9.69
		Average				7.08	8.15	1606.5	8.044	121.4	8.84
		Minimum				6.95	8.04	894.1	4.861	43.7	7.77
		Maximum				7.25	8.27	1822.6	9.158	207.3	9.73
		Standard deviation				0.11	0.16	353.9	1.640	69.3	0.64
		Geometric mean				7.07	8.15	1563.2	7.870	104.7	8.83
	March 2026	First quartile				7	8.1	1670.2	7.958	86.9	8.75
		Third quartile				7.12	8.21	1765.1	9.05	180.6	9.05
		90th Percentile				7.19	8.25	1795	9.133	196.6	9.4
		Average				7.06		1835.8	8.774	149.4	9.16
		Minimum				6.9		1741.2	7.603	36.3	8.36
		Maximum				7.19		2021.1	9.63	225.4	9.97
		Standard deviation				0.11		78.1	0.702	55.4	0.54
		Geometric mean				7.06		1834.4	8.748	135.7	9.15
		First quartile				6.97		1797.4	8.22	129.9	8.93
		Third quartile				7.13		1866.3	9.289	176.7	9.54
		90th Percentile				7.16		1894.1	9.374	209.6	9.77

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SP3S	December 2025		Turb-F	TSS	H2SEquiv	S2-T	SO4-D	DOC	Hard-T	Hard-D
Settling Pond 3 Surface		Average	68.70	12.1			695		465.5	480
		Minimum	30.75	6.0			640		423	434
		Maximum	88.53	16			770		512	543
		Standard deviation	12.90	3.1			36		22.9	27
		Geometric mean	67.24	11.6			694		465.0	480
		First quartile	63.41	9.6			665		446.5	463
		Third quartile	73.67	15			725		483	497
		90th Percentile	85.34	15.2			740		488.2	516
	January 2026	Average	45.62	8.0			642.5		405.7	420.1
		Minimum	19.84	6.8			620		385	404
		Maximum	70.8	9.2			660		427	446
		Standard deviation	15.64	0.9			14.9		11.0	13.2
		Geometric mean	43.06	8.0			642.3		405.5	419.9
		First quartile	38.33	7.4			630		402	409
		Third quartile	57.58	8.6			652.5		409	425
		90th Percentile	65.33	9			660		413.4	434.8
	February 2026	Average	25.83				550.0		347	377.3
		Minimum	19.03				510		158	330
		Maximum	32				570		414	399
		Standard deviation	4.67				27.1		94	25.2
		Geometric mean	25.47				549.5		331	376.6
		First quartile	23.58				547.5		358	373.5
		Third quartile	28.89				562.5		392	392.2
		90th Percentile	30.71				567		404	396.5
	March 2026	Average	23.94				594.4		404.6	400.2
		Minimum	6.38				560		363	367
		Maximum	43.4				650		439	446
		Standard deviation	10.30				34.7		22.2	26.5
		Geometric mean	21.52				593.6		404.0	399.5
		First quartile	17.63				560		393	381
		Third quartile	29.39				610		418	413.8
		90th Percentile	32.94				642		429.4	429.2

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
SP3S Settling Pond 3 Surface	December 2025	Average	0.50	4.04	0.50	468.9	0.0000184	0.0000142	0.02007	0.00276
		Minimum	<1.0	<1.0	<1.0	430	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	13.9	<1.0	480	<0.000040	<0.000040	0.061	<0.0060
		Standard deviation	0.00	3.89	0.00	14.1	0.0000037	0.0000051	0.01775	0.00056
		Geometric mean	0.50	2.36	0.50	468.7	0.0000179	0.0000134	0.01319	0.00269
		First quartile	0.5	0.75	0.5	465	2.00E-05	1.00E-05	0.00805	0.003
		Third quartile	0.5	4.75	0.5	480	2.00E-05	2.00E-05	0.02745	0.003
		90th Percentile	0.5	9.54	0.5	480	2.00E-05	2.00E-05	0.04392	0.003
	January 2026	Average	0.50	4.9	0.50	471.2	0.0000111	0.0000122	0.01223	0.00167
		Minimum	<1.0	2.5	<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum	<1.0	7.1	<1.0	480	<0.000040	<0.000040	0.0344	<0.0060
		Standard deviation	0.00	1.6	0.00	8.3	0.0000033	0.0000044	0.01090	0.00050
		Geometric mean	0.50	4.6	0.50	471.2	0.0000108	0.0000117	0.00823	0.00162
		First quartile	0.5	4.3	0.5	467.5	2.00E-05	2.00E-05	0.0055	0.003
		Third quartile	0.5	5.7	0.5	480	2.00E-05	2.00E-05	0.016	0.003
		90th Percentile	0.5	6.5	0.5	480	1.20E-05	2.00E-05	0.02576	0.0018
	February 2026	Average			0.50	460.0	0.0000100	0.0000178	0.00935	0.00548
		Minimum			<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum			<1.0	460	<0.000020	0.000057	0.0343	0.0254
		Standard deviation			0.00	0.0	0.0000000	0.0000192	0.01236	0.00976
		Geometric mean			0.50	460.0	0.0000100	0.0000134	0.00557	0.00240
		First quartile			0.5	460	1.00E-05	1.00E-05	0.00373	0.0015
		Third quartile			0.5	460	1.00E-05	1.00E-05	0.00665	0.0015
		90th Percentile			0.5	460	1.00E-05	3.35E-05	0.0207	0.01345
	March 2026	Average					0.0000100	0.0000100	0.00882	0.00260
		Minimum					<0.000020	<0.000020	<0.0030	<0.0030
		Maximum					<0.000020	<0.000020	0.0222	0.007
		Standard deviation					0.0000000	0.0000000	0.00720	0.00220
		Geometric mean					0.0000100	0.0000100	0.00622	0.00207
		First quartile					2.00E-05	2.00E-05	0.0047	0.003
		Third quartile					2.00E-05	2.00E-05	0.0105	0.003
		90th Percentile					1.00E-05	1.00E-05	0.01916	0.00612

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
SP3S Settling Pond 3 Surface	December 2025	Average	0.00177	0.00081	1.09	1.075	0.0201	0.0223	0.000092	0.000071	0.00092	0.00071
		Minimum	0.00141	0.00053	0.91	0.897	0.0186	0.0196	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00202	0.00101	1.33	1.3	0.0242	0.0267	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00016	0.00013	0.11	0.122	0.0015	0.0019	0.000019	0.000025	0.00019	0.00025
		Geometric mean	0.00176	0.00080	1.09	1.069	0.0200	0.0223	0.000090	0.000067	0.00090	0.00067
		First quartile	0.0017	0.00074	1.02	0.974	0.0192	0.0209	0.0001	5.00E-05	0.001	0.0005
		Third quartile	0.00185	0.0009	1.17	1.14	0.0203	0.0234	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00195	0.00096	1.2	1.262	0.0212	0.0245	0.0001	0.0001	0.001	0.001
	January 2026	Average	0.00182	0.00115	1.059	0.935	0.0197	0.0209	0.000056	0.000061	0.00056	0.00061
		Minimum	0.00161	0.0009	0.838	0.732	0.0177	0.0192	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00199	0.0014	1.3	1.14	0.0247	0.0274	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00014	0.00020	0.157	0.133	0.0021	0.0027	0.000017	0.000022	0.00017	0.00022
		Geometric mean	0.00181	0.00114	1.049	0.927	0.0196	0.0207	0.000054	0.000058	0.00054	0.00058
		First quartile	0.00171	0.00099	0.933	0.852	0.0181	0.0194	0.0001	0.0001	0.001	0.001
		Third quartile	0.00188	0.00132	1.14	0.97	0.0205	0.0204	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00197	0.00138	1.244	1.132	0.0214	0.0236	6.00E-05	0.0001	0.0006	0.001
	February 2026	Average	0.00194	0.00162	0.919	0.738	0.0229	0.0205	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00138	0.0014	0.827	0.101	0.0195	0.0152	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00229	0.00228	1.03	0.899	0.0327	0.0232	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00032	0.00033	0.081	0.313	0.0051	0.0027	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00192	0.00159	0.916	0.605	0.0225	0.0204	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00186	0.00144	0.851	0.848	0.0201	0.0208	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00216	0.00157	0.968	0.866	0.0233	0.0215	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00226	0.00193	1.005	0.883	0.0285	0.0223	5.00E-05	5.00E-05	0.0005	0.0005
	March 2026	Average	0.00257	0.00191	0.965	0.926	0.0214	0.0224	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00185	0.00168	0.859	0.792	0.0206	0.0207	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.0029	0.00257	1.1	1.06	0.0229	0.0238	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00031	0.00027	0.079	0.088	0.0008	0.0011	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00255	0.00190	0.963	0.922	0.0214	0.0224	0.000050	0.000050	0.00050	0.00050
		First quartile	0.0025	0.00178	0.907	0.856	0.0209	0.0219	0.0001	0.0001	0.001	0.001
		Third quartile	0.00275	0.00197	1.02	0.972	0.0219	0.0231	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00284	0.00211	1.06	1.044	0.0224	0.0235	5.00E-05	5.00E-05	0.0005	0.0005

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
SP3S Settling Pond 3 Surface	December 2025	Average	572.6	0.0080	159.3	154.6	0.50	0.0000092	0.0000087	6.7
		Minimum	530	<0.010	145	140	<1.0	<0.000010	<0.000010	6.2
		Maximum	590	0.011	181	172	<1.0	<0.000020	0.000028	7.1
		Standard deviation	16.3	0.0042	9.6	8.3	0.00	0.0000019	0.0000054	0.6
		Geometric mean	572.4	0.0074	159.0	154.4	0.50	0.0000090	0.0000077	6.6
		First quartile	570	0.0065	152.5	147.5	0.5	1.00E-05	5.00E-06	6.4
		Third quartile	580	0.0095	165	161	0.5	1.00E-05	1.00E-05	6.9
		90th Percentile	590	0.0104	172.4	163.2	0.5	1.00E-05	1.04E-05	7
	January 2026	Average	576.2	0.0098	140.3	136.3	0.50	0.0000056	0.0000061	5.7
		Minimum	560	<0.010	135	128	<1.0	<0.000010	<0.000010	5.4
		Maximum	590	0.015	149	143	<1.0	<0.000020	<0.000020	6.4
		Standard deviation	9.2	0.0046	4.7	4.2	0.00	0.0000017	0.0000022	0.4
		Geometric mean	576.2	0.0088	140.3	136.3	0.50	0.0000054	0.0000058	5.7
		First quartile	570	0.01	136	135	0.5	1.00E-05	1.00E-05	5.4
		Third quartile	580	0.013	143	139	0.5	1.00E-05	1.00E-05	5.8
		90th Percentile	583	0.0142	145	140.6	0.5	6.00E-06	1.00E-05	6.2
	February 2026	Average	565.0		126.2	115.3	0.50	0.0000050	0.0000173	
		Minimum	560		107	45.6	<1.0	<0.000010	<0.000010	
		Maximum	570		135	140	<1.0	<0.000010	0.000079	
		Standard deviation	7.1		10.3	35.1	0.00	0.0000000	0.0000302	
		Geometric mean	565.0		125.8	108.4	0.50	0.0000050	0.0000079	
		First quartile	562.5		124.2	118.5	0.5	5.00E-06	5.00E-06	
		Third quartile	567.5		132	133	0.5	5.00E-06	5.00E-06	
		90th Percentile	569		133.5	137	0.5	5.00E-06	4.20E-05	
	March 2026	Average			134.9	135.9		0.0000067	0.0000068	
		Minimum			121	121		<0.000010	<0.000010	
		Maximum			152	147		0.00002	0.000014	
		Standard deviation			9.4	7.8		0.0000050	0.0000036	
		Geometric mean			134.6	135.7		0.0000058	0.0000062	
		First quartile			128	131		1.00E-05	1.00E-05	
		Third quartile			140	140		1.00E-05	1.00E-05	
		90th Percentile			143.2	144.6		8.00E-06	1.24E-05	

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
SP3S Settling Pond 3 Surface	December 2025	Average	0.00095	0.00093	0.00092	0.00071	0.000184	0.00163	0.063	4.73	0.613
		Minimum	0.00067	0.00069	<0.0010	<0.0010	<0.00020	0.00105	0.058	3.17	0.109
		Maximum	0.00144	0.00148	<0.0020	<0.0020	<0.00040	0.0023	0.068	5.95	1.14
		Standard deviation	0.00025	0.00025	0.00019	0.00025	0.000037	0.00033	0.007	0.91	0.313
		Geometric mean	0.00092	0.00090	0.00090	0.00067	0.000179	0.00160	0.063	4.65	0.517
		First quartile	0.00075	0.00073	0.001	0.0005	0.0002	0.00145	0.061	4.06	0.323
		Third quartile	0.0011	0.00104	0.001	0.001	0.0002	0.00187	0.066	5.54	0.858
		90th Percentile	0.00139	0.00138	0.001	0.001	0.0002	0.002	0.067	5.78	0.996
	January 2026	Average	0.00117	0.00117	0.00056	0.00061	0.000111	0.00142	0.071	3.33	0.598
		Minimum	0.00073	0.00083	<0.0010	<0.0010	<0.00020	0.0011	0.064	2.64	0.203
		Maximum	0.00171	0.00163	<0.0020	<0.0020	<0.00040	0.00178	0.079	4.3	1.13
		Standard deviation	0.00030	0.00025	0.00017	0.00022	0.000033	0.00021	0.006	0.55	0.350
		Geometric mean	0.00114	0.00114	0.00054	0.00058	0.000108	0.00141	0.071	3.29	0.499
		First quartile	0.00104	0.00099	0.001	0.001	0.0002	0.0014	0.065	3.1	0.249
		Third quartile	0.00118	0.0012	0.001	0.001	0.0002	0.0015	0.074	3.6	0.807
		90th Percentile	0.0016	0.00151	0.0006	0.001	0.00012	0.00164	0.077	4.02	1.034
	February 2026	Average	0.00162	0.001490	0.00050	0.00050	0.000310	0.017735		1.681	0.9000
		Minimum	0.00067	<0.00020	<0.0010	<0.0010	<0.00020	<0.00050		0.304	0.0168
		Maximum	0.0022	0.00207	<0.0010	<0.0010	0.00136	0.1		2.72	2.3
		Standard deviation	0.00053	0.000716	0.00000	0.00000	0.000514	0.040305		1.056	0.7532
		Geometric mean	0.00152	0.001088	0.00050	0.00050	0.000154	0.002277		1.239	0.4868
		First quartile	0.00152	0.001492	0.0005	0.0005	0.0001	0.00147		0.82	0.6823
		Third quartile	0.00191	0.001875	0.0005	0.0005	0.0001	0.00167		2.383	0.8695
		90th Percentile	0.00205	0.001975	0.0005	0.0005	0.00073	0.050865		2.595	1.593
	March 2026	Average	0.00201	0.00204	0.00050	0.00050	0.000292	0.001346		2.143	0.676
		Minimum	0.00134	0.00137	<0.0010	<0.0010	<0.00020	<0.00050		0.843	0.117
		Maximum	0.00277	0.00276	<0.0010	<0.0010	0.00162	0.00189		2.65	2.4
		Standard deviation	0.00050	0.00056	0.00000	0.00000	0.000500	0.000502		0.521	0.723
		Geometric mean	0.00196	0.00197	0.00050	0.00050	0.000160	0.001196		2.056	0.411
		First quartile	0.00166	0.00159	0.001	0.001	0.0002	0.00117		2.13	0.149
		Third quartile	0.00253	0.00268	0.001	0.001	0.0002	0.00174		2.35	0.777
		90th Percentile	0.00259	0.00272	0.0005	0.0005	0.000492	0.001866		2.53	1.184

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River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
SP3S Settling Pond 3 Surface	December 2025	Average	0.50	5.94	5.80	0.0150	0.0149	20.2	19.3	0.761	0.786
		Minimum	<1.0	5.73	5.49	0.0126	0.0126	17.7	17.5	0.655	0.682
		Maximum	<1.0	6.23	6.04	0.0166	0.0162	22.7	22.3	0.852	0.872
		Standard deviation	0.00	0.15	0.14	0.0014	0.0011	1.2	1.3	0.067	0.068
		Geometric mean	0.50	5.94	5.80	0.0149	0.0148	20.2	19.2	0.758	0.783
		First quartile	0.5	5.83	5.72	0.0136	0.0144	19.7	18.4	0.687	0.712
		Third quartile	0.5	6	5.89	0.0161	0.0159	20.9	19.9	0.81	0.847
		90th Percentile	0.5	6.17	6	0.0165	0.0159	21.6	20.7	0.841	0.866
	January 2026	Average	0.50	5.58	5.42	0.0136	0.0121	16.9	15.9	0.640	0.667
		Minimum	<1.0	5.18	5.09	0.0119	0.0092	15.5	14.9	0.6	0.615
		Maximum	<1.0	5.83	5.82	0.015	0.0135	18.6	17	0.694	0.712
		Standard deviation	0.00	0.19	0.22	0.0010	0.0013	1.0	0.7	0.031	0.035
		Geometric mean	0.50	5.57	5.41	0.0135	0.0120	16.9	15.9	0.639	0.666
		First quartile	0.5	5.47	5.32	0.0129	0.0117	16.2	15.2	0.623	0.641
		Third quartile	0.5	5.64	5.48	0.0145	0.0129	17.6	16.5	0.643	0.7
		90th Percentile	0.5	5.77	5.68	0.0149	0.0133	18	16.6	0.688	0.712
	February 2026	Average	0.50	5.14	8.89	0.0131	0.0107	15.1	14.3	0.5081	0.583
		Minimum	<1.0	5.02	4.82	0.0111	0.0032	14	10.7	0.0239	0.357
		Maximum	<1.0	5.3	27.8	0.0153	0.013	15.6	15.7	0.674	0.643
		Standard deviation	0.00	0.10	9.27	0.0017	0.0037	0.6	1.8	0.2409	0.113
		Geometric mean	0.50	5.14	6.77	0.0130	0.0097	15.1	14.2	0.3524	0.572
		First quartile	0.5	5.09	5.07	0.0118	0.0112	15.1	14.6	0.5565	0.599
		Third quartile	0.5	5.19	5.29	0.0142	0.0124	15.5	15.2	0.6052	0.642
		90th Percentile	0.5	5.25	16.55	0.0148	0.0127	15.6	15.5	0.64	0.643
	March 2026	Average		5.00	5.05	0.0133	0.0132	15.5	15.8	0.655	0.648
		Minimum		4.74	4.69	0.0118	0.0099	14.2	14.6	0.603	0.592
		Maximum		5.36	5.41	0.015	0.0155	16.9	17.2	0.727	0.698
		Standard deviation		0.22	0.20	0.0011	0.0017	0.8	0.9	0.052	0.038
		Geometric mean		5.00	5.05	0.0132	0.0131	15.5	15.7	0.653	0.647
		First quartile		4.83	4.98	0.0124	0.0125	15.1	15.1	0.616	0.627
		Third quartile		5.17	5.15	0.014	0.014	15.9	16.4	0.713	0.686
		90th Percentile		5.26	5.21	0.0144	0.0154	16.5	16.8	0.721	0.697

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Mo-D	mg/L Mo-T	mg/L Na-D	mg/L Na-T	mg/L Ni-D	mg/L Ni-T	mg/L Pb-D	mg/L Pb-T	mg/L S-T	mg/L S-D
SP3S Settling Pond 3 Surface	December 2025	Average	0.00092	0.00071	369.3	355.5	0.00121	0.00111	0.000184	0.000142	269.7	269.7
		Minimum	<0.0010	<0.0010	342	317	<0.0020	<0.0010	<0.00020	<0.00020	243	235
		Maximum	<0.0020	<0.0020	401	395	0.0021	0.0022	<0.00040	<0.00040	297	294
		Standard deviation	0.00019	0.00025	16.6	18.8	0.00043	0.00058	0.000037	0.000051	13.8	14.0
		Geometric mean	0.00090	0.00067	368.9	355.1	0.00116	0.00097	0.000179	0.000134	269.4	269.4
		First quartile	0.001	0.0005	358.5	344.5	0.001	0.0005	0.0002	0.0001	260	264
		Third quartile	0.001	0.001	383	368	0.001	0.0015	0.0002	0.0002	277.5	273.5
		90th Percentile	0.001	0.001	383.4	376	0.0021	0.0021	0.0002	0.0002	285.4	289.8
	January 2026	Average	0.00056	0.00061	342.8	328.0	0.00149	0.00151	0.000111	0.000122	235.0	247.0
		Minimum	<0.0010	<0.0010	307	308	<0.0010	<0.0020	<0.00020	<0.00020	221	229
		Maximum	<0.0020	<0.0020	375	354	0.0023	0.0022	<0.00040	<0.00040	249	264
		Standard deviation	0.00017	0.00022	25.0	17.8	0.00054	0.00044	0.000033	0.000044	9.9	11.0
		Geometric mean	0.00054	0.00058	342.0	327.6	0.00138	0.00146	0.000108	0.000117	234.8	246.8
		First quartile	0.001	0.001	327	312	0.0013	0.0012	0.0002	0.0002	227	242
		Third quartile	0.001	0.001	372	338	0.0017	0.0017	0.0002	0.0002	243	257
		90th Percentile	0.0006	0.001	373.4	350.8	0.00214	0.00212	0.00012	0.0002	246.6	258.4
	February 2026	Average	0.00050	0.00083	297.5	286.3	0.00215	0.0024	0.000100	0.000145	177.0	203.3
		Minimum	<0.0010	<0.0010	275	230	<0.0010	0.0019	<0.00020	<0.00020	17.3	182
		Maximum	<0.0010	0.0025	321	315	0.003	0.0029	<0.00020	0.00037	217	216
		Standard deviation	0.00000	0.00082	16.2	29.5	0.00090	0.0004	0.000000	0.000110	78.6	12.4
		Geometric mean	0.00050	0.00065	297.1	284.9	0.00188	0.0023	0.000100	0.000124	137.9	203.0
		First quartile	0.0005	0.0005	287.8	288.2	0.00202	0.002	0.0001	0.0001	199	198.8
		Third quartile	0.0005	0.0005	303.5	301	0.00277	0.0028	0.0001	0.0001	215	210.2
		90th Percentile	0.0005	0.0015	312.5	309.5	0.00295	0.0029	0.0001	0.000235	217	213.5
	March 2026	Average	0.00050	0.00050	299.9	300.3	0.0027	0.0027	0.000100	0.000100	221.9	218.8
		Minimum	<0.0010	<0.0010	281	282	0.0019	0.002	<0.00020	<0.00020	207	207
		Maximum	<0.0010	<0.0010	324	313	0.0035	0.0036	<0.00020	<0.00020	248	232
		Standard deviation	0.00000	0.00000	14.0	10.8	0.0006	0.0007	0.000000	0.000000	13.8	8.9
		Geometric mean	0.00050	0.00050	299.6	300.2	0.0026	0.0027	0.000100	0.000100	221.5	218.6
		First quartile	0.001	0.001	287	291	0.0023	0.0022	0.0002	0.0002	212	213
		Third quartile	0.001	0.001	305	311	0.0033	0.0035	0.0002	0.0002	223	226
		90th Percentile	0.0005	0.0005	316	311.4	0.0034	0.0035	0.0001	0.0001	241.6	230.4

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Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T
SP3S Settling Pond 3 Surface	December 2025	Average	0.000461	0.000355	0.000092	0.000071	3.20	3.37	0.00461	0.00355	1.65	1.66
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.88	3.09	<0.0050	<0.0050	1.42	1.49
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.53	3.65	<0.010	<0.010	1.82	1.98
		Standard deviation	0.000094	0.000127	0.000019	0.000025	0.18	0.17	0.00094	0.00127	0.11	0.13
		Geometric mean	0.000448	0.000335	0.000090	0.000067	3.19	3.36	0.00448	0.00335	1.65	1.66
		First quartile	0.0005	0.00025	0.0001	5.00E-05	3.05	3.25	0.005	0.0025	1.62	1.58
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.33	3.5	0.005	0.005	1.73	1.74
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.41	3.61	0.005	0.005	1.75	1.8
	January 2026	Average	0.000278	0.000306	0.000062	0.000061	3.18	3.09	0.00278	0.00306	1.52	1.41
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.96	2.83	<0.0050	<0.0050	1.44	1.32
		Maximum	<0.0010	<0.0010	0.00011	<0.00020	3.31	3.43	<0.010	<0.010	1.66	1.5
		Standard deviation	0.000083	0.000110	0.000024	0.000022	0.11	0.21	0.00083	0.00110	0.08	0.05
		Geometric mean	0.000270	0.000292	0.000059	0.000058	3.18	3.08	0.00270	0.00292	1.51	1.41
		First quartile	0.0005	0.0005	0.0001	0.0001	3.18	2.93	0.005	0.005	1.44	1.41
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.25	3.21	0.005	0.005	1.58	1.43
		90th Percentile	0.0003	0.0005	0.000102	0.0001	3.27	3.33	0.003	0.005	1.62	1.46
	February 2026	Average	0.000250	0.000250	0.000050	0.000107	3.14	4.11	0.00250	0.00250	1.32	1.138
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.86	2.94	<0.0050	<0.0050	1.05	0.136
		Maximum	<0.00050	<0.00050	<0.00010	0.00039	3.4	8.92	<0.0050	<0.0050	1.53	1.52
		Standard deviation	0.000000	0.000000	0.000000	0.000139	0.20	2.36	0.00000	0.00000	0.16	0.501
		Geometric mean	0.000250	0.000250	0.000050	0.000070	3.14	3.75	0.00250	0.00250	1.31	0.912
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.03	3.15	0.0025	0.0025	1.26	1.24
		Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.29	3.25	0.0025	0.0025	1.38	1.338
		90th Percentile	0.00025	0.00025	5.00E-05	0.00022	3.37	6.09	0.0025	0.0025	1.46	1.43
	March 2026	Average	0.000250	0.000250	0.000050	0.000050	3.11	3.26	0.00250	0.00250	1.41	1.41
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.71	3.04	<0.0050	<0.0050	1.24	1.31
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.35	3.67	<0.0050	<0.0050	1.52	1.56
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.20	0.22	0.00000	0.00000	0.10	0.09
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.10	3.26	0.00250	0.00250	1.40	1.41
		First quartile	0.0005	0.0005	0.0001	0.0001	3.04	3.12	0.005	0.005	1.32	1.35
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.2	3.34	0.005	0.005	1.47	1.49
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.34	3.57	0.0025	0.0025	1.52	1.54

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Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L TI-D	mg/L TI-T	mg/L U-D	mg/L U-T
SP3S Settling Pond 3 Surface	December 2025	Average	0.00461	0.00355	0.0000092	0.0000071	0.000092	0.000086
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	0.00014
		Standard deviation	0.00094	0.00127	0.0000019	0.0000025	0.000019	0.000030
		Geometric mean	0.00448	0.00335	0.0000090	0.0000067	0.000090	0.000081
		First quartile	0.005	0.0025	1.00E-05	5.00E-06	0.0001	5.00E-05
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.00012
	January 2026	Average	0.00278	0.00306	0.0000056	0.0000061	0.000067	0.000061
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	0.0001	<0.00020
		Standard deviation	0.00083	0.00110	0.0000017	0.0000022	0.000025	0.000022
		Geometric mean	0.00270	0.00292	0.0000054	0.0000058	0.000063	0.000058
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0002	0.0001
		90th Percentile	0.003	0.005	6.00E-06	1.00E-05	0.0001	0.0001
	February 2026	Average	0.00250	0.00302	0.0000050	0.0000050	0.000060	0.000133
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	0.0056	<0.000010	<0.000010	0.00011	0.00055
		Standard deviation	0.00000	0.00127	0.0000000	0.0000000	0.000024	0.000204
		Geometric mean	0.00250	0.00286	0.0000050	0.0000050	0.000057	0.000075
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.00405	5.00E-06	5.00E-06	8.00E-05	0.0003
	March 2026	Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

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Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
SP3S Settling Pond 3 Surface	December 2025	Average	0.00461	0.00355	0.00461	0.00355	0.000092	0.000071
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00094	0.00127	0.00094	0.00127	0.000019	0.000025
		Geometric mean	0.00448	0.00335	0.00448	0.00335	0.000090	0.000067
		First quartile	0.005	0.0025	0.005	0.0025	0.0001	5.00E-05
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	January 2026	Average	0.00278	0.00306	0.00278	0.00306	0.000056	0.000061
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00083	0.00110	0.00083	0.00110	0.000017	0.000022
		Geometric mean	0.00270	0.00292	0.00270	0.00292	0.000054	0.000058
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.003	0.005	0.003	0.005	6.00E-05	0.0001
	February 2026	Average	0.00250	0.00250	0.00250	0.00897	0.000050	0.000067
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	0.0413	<0.00010	0.00015
		Standard deviation	0.00000	0.00000	0.00000	0.01584	0.000000	0.000041
		Geometric mean	0.00250	0.00250	0.00250	0.00399	0.000050	0.000060
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	0.0025	0.0219	5.00E-05	0.0001
	March 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05

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Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV	mg/L
SP3C	December 2025		Mine Water Level	Totilizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F	DO-F
End of the SP3 Channel		Average				7.24	8.09	2189.1	8.075	172.4	9.36
		Minimum				6.95	7.79	2015.8	6.575	96.3	8.56
		Maximum				7.35	8.24	2462.3	9.703	220.1	10.57
		Standard deviation				0.09	0.14	170.0	0.638	27.5	0.60
		Geometric mean				7.24	8.09	2183.0	8.051	170.0	9.34
		First quartile				7.21	8.05	2059.8	7.814	155.3	8.79
		Third quartile				7.31	8.2	2378.6	8.34	187.8	9.66
	January 2026	90th Percentile				7.33	8.22	2451.5	8.592	207.6	10.06
		Average				7.08	8.00	2045.8	7.959	205.9	10.10
		Minimum				6.77	7.88	1776.9	6.938	147.5	9.75
		Maximum				7.28	8.19	2308.3	9.115	240.8	10.61
		Standard deviation				0.17	0.10	209.3	0.658	32.1	0.25
		Geometric mean				7.08	8.00	2036.1	7.935	203.4	10.10
		First quartile				6.99	7.93	1882.2	7.688	201.7	9.98
	February 2026	Third quartile				7.23	8.05	2249.1	8.334	226.7	10.19
		90th Percentile				7.25	8.12	2279.1	8.745	232.4	10.28
		Average				7.08	8.14	1787.9	8.331	165.7	10.13
		Minimum				7.01	8.1	1701.3	7.434	132.2	9.87
		Maximum				7.18	8.19	1881.9	9.13	209.3	10.42
		Standard deviation				0.07	0.06	78.1	0.659	35.0	0.25
		Geometric mean				7.08	8.14	1786.6	8.310	163.0	10.13
	March 2026	First quartile				7.04	8.12	1740.2	7.97	140.5	9.95
		Third quartile				7.11	8.17	1832	8.73	185.9	10.3
		90th Percentile				7.15	8.18	1861.9	8.97	199.9	10.37
		Average				7.17		1827.7	8.493	164.7	9.88
		Minimum				7.02		1731.2	7.472	47.8	8.9
		Maximum				7.3		2011.2	9.364	218.9	10.74
		Standard deviation				0.11		81.4	0.714	49.3	0.53
		Geometric mean				7.17		1826.1	8.466	154.1	9.87
		First quartile				7.06		1787.1	7.808	149.6	9.8
		Third quartile				7.26		1860.5	9.099	187.3	10.15
		90th Percentile				7.28		1901.7	9.271	212.7	10.28

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Turb-F	TSS	H2SEquiv	S2-T	SO4-D	DOC	Hard-T	Hard-D
SP3C End of the SP3 Channel	December 2025	Average	56.21	9.07			709		472	481.1
		Minimum	23.07	<1.0			630		432	437
		Maximum	79.62	14			780		568	522
		Standard deviation	16.80	3.13			44		33	20.8
		Geometric mean	53.33	7.98			707		471	480.7
		First quartile	46.3	7.6			680		449	467.8
		Third quartile	69.21	11			740		483	495
		90th Percentile	73.1	12			780		512	508.8
	January 2026	Average	33.08	6.7			648.9		408.3	422.1
		Minimum	15.19	5.6			630		388	399
		Maximum	53.67	8			670		459	449
		Standard deviation	10.05	0.8			14.5		21.9	16.3
		Geometric mean	31.62	6.6			648.7		407.8	421.8
		First quartile	28.5	6			640		395.2	413.8
		Third quartile	36.34	7.1			660		419	431.8
		90th Percentile	41.94	8			662		429.3	440.9
	February 2026	Average	20.73	3.6			552.5		381.2	391.6
		Minimum	17.31	1.6			540		352	378
		Maximum	25.73	4.8			560		392	404
		Standard deviation	4.01	1.3			9.6		16.9	9.4
		Geometric mean	20.45	3.4			552.4		380.9	391.5
		First quartile	17.58	3.2			547.5		381	389
		Third quartile	23.09	4.8			560		391	394
		90th Percentile	24.67	4.8			560		391.6	400
	March 2026	Average	23.32	4.2			598.9		403.8	403.8
		Minimum	11.82	3.2			560		373	365
		Maximum	37.25	5.2			650		447	459
		Standard deviation	8.01	0.7			26.7		24.9	27.9
		Geometric mean	22.01	4.1			598.4		403.1	402.9
		First quartile	19.21	3.6			590		388	394
		Third quartile	27.82	4.5			610		418	405
		90th Percentile	32.25	4.9			626		434.2	437.4

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
SP3C End of the SP3 Channel	December 2025	Average	0.50	3.13	0.50	471.6	0.0000173	0.0000155	0.01870	0.00276
		Minimum	<1.0	<1.0	<1.0	460	<0.000020	<0.000020	<0.0060	<0.0030
		Maximum	<1.0	12.8	<1.0	480	<0.000040	<0.000040	0.0674	0.0052
		Standard deviation	0.00	3.19	0.00	6.9	0.0000046	0.0000051	0.01720	0.00084
		Geometric mean	0.50	1.83	0.50	471.5	0.0000166	0.0000146	0.01281	0.00263
		First quartile	0.5	0.5	0.5	470	1.25E-05	1.00E-05	0.00847	0.003
		Third quartile	0.5	4.45	0.5	480	2.00E-05	2.00E-05	0.02332	0.003
		90th Percentile	0.5	6.12	0.5	480	2.00E-05	2.00E-05	0.03383	0.003
	January 2026	Average	0.50	2.69	0.50	472.2	0.0000110	0.0000110	0.00953	0.00165
		Minimum	<1.0	<1.0	<1.0	460	<0.000020	<0.000020	<0.0060	<0.0030
		Maximum	<1.0	4.1	<1.0	480	<0.000040	<0.000040	0.0275	<0.0060
		Standard deviation	0.00	1.35	0.00	6.7	0.0000032	0.0000032	0.00744	0.00047
		Geometric mean	0.50	2.24	0.50	472.2	0.0000107	0.0000107	0.00752	0.00161
		First quartile	0.5	1.8	1	470	1.00E-05	1.00E-05	0.00413	0.0015
		Third quartile	0.5	3.75	1	480	1.00E-05	1.00E-05	0.01242	0.0015
		90th Percentile	0.5	3.98	0.5	480	1.10E-05	1.10E-05	0.01508	0.00165
	February 2026	Average			0.50	465.0	0.0000100	0.0000100	0.0119	0.00150
		Minimum			<1.0	460	<0.000020	<0.000020	0.0034	<0.0030
		Maximum			<1.0	470	<0.000020	<0.000020	0.0244	<0.0030
		Standard deviation			0.00	7.1	0.0000000	0.0000000	0.0101	0.00000
		Geometric mean			0.50	465.0	0.0000100	0.0000100	0.0087	0.00150
		First quartile			0.5	462.5	2.00E-05	2.00E-05	0.005	0.003
		Third quartile			0.5	467.5	2.00E-05	2.00E-05	0.0213	0.003
		90th Percentile			0.5	469	1.00E-05	1.00E-05	0.0232	0.0015
	March 2026	Average					0.0000100	0.0000100	0.0096	0.00179
		Minimum					<0.000020	<0.000020	0.0033	<0.0030
		Maximum					<0.000020	<0.000020	0.0279	0.0041
		Standard deviation					0.0000000	0.0000000	0.0076	0.00087
		Geometric mean					0.0000100	0.0000100	0.0078	0.00168
		First quartile					2.00E-05	2.00E-05	0.0055	0.003
		Third quartile					2.00E-05	2.00E-05	0.0107	0.003
		90th Percentile					1.00E-05	1.00E-05	0.0169	0.00202

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Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
SP3C End of the SP3 Channel	December 2025	Average	0.00148	0.00068	1.102	1.082	0.0226	0.0246	0.000086	0.000077	0.00086	0.00077
		Minimum	0.00092	0.00044	0.893	0.94	0.0196	0.0202	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00193	0.0009	1.26	1.29	0.0288	0.0340	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00030	0.00016	0.095	0.100	0.0032	0.0034	0.000023	0.000025	0.00023	0.00025
		Geometric mean	0.00145	0.00067	1.098	1.077	0.0224	0.0244	0.000083	0.000073	0.00083	0.00073
		First quartile	0.00131	0.00055	1.032	1	0.0201	0.022	6.30E-05	5.00E-05	0.00063	0.0005
		Third quartile	0.00169	0.00085	1.147	1.125	0.0235	0.026	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00175	0.00088	1.228	1.219	0.028	0.0292	0.0001	0.0001	0.001	0.001
	January 2026	Average	0.00159	0.00102	1.029	0.922	0.0208	0.0218	0.000055	0.000055	0.00055	0.00055
		Minimum	0.00142	0.00079	0.835	0.756	0.0186	0.0186	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.0018	0.00125	1.35	1.14	0.0273	0.0293	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00014	0.00018	0.174	0.132	0.0025	0.0032	0.000016	0.000016	0.00016	0.00016
		Geometric mean	0.00159	0.00100	1.016	0.913	0.0207	0.0216	0.000054	0.000054	0.00054	0.00054
		First quartile	0.00149	0.00087	0.937	0.856	0.0193	0.0198	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00167	0.00119	1.143	0.988	0.0208	0.0232	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00177	0.00123	1.26	1.122	0.0226	0.025	5.50E-05	5.50E-05	0.00055	0.00055
	February 2026	Average	0.00180	0.00134	0.925	0.862	0.0216	0.0223	0.000050	0.000050	0.00050	0.00050
		Minimum	0.0017	0.00124	0.834	0.828	0.0206	0.0211	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00196	0.00148	1.07	0.897	0.0241	0.0242	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00011	0.00010	0.093	0.025	0.0014	0.0012	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00180	0.00134	0.922	0.862	0.0215	0.0223	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00174	0.00127	0.862	0.856	0.0209	0.0215	0.0001	0.0001	0.001	0.001
		Third quartile	0.00186	0.00139	0.953	0.867	0.0212	0.0227	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00192	0.00144	1.023	0.885	0.0229	0.0236	5.00E-05	5.00E-05	0.0005	0.0005
	March 2026	Average	0.00216	0.00152	0.960	0.916	0.0220	0.0228	0.000050	0.000050	0.00050	0.00050
		Minimum	0.002	0.00134	0.869	0.789	0.0204	0.0212	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00233	0.00173	1.1	1.05	0.0244	0.0239	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00012	0.00014	0.078	0.089	0.0014	0.0010	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00216	0.00151	0.957	0.912	0.0219	0.0228	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00212	0.00142	0.895	0.855	0.0213	0.0224	0.0001	0.0001	0.001	0.001
		Third quartile	0.00224	0.00161	0.986	0.985	0.0221	0.0236	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00232	0.00168	1.06	1.026	0.0242	0.0239	5.00E-05	5.00E-05	0.0005	0.0005

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
SP3C End of the SP3 Channel	December 2025	Average	577.4	0.0080	159.2	156.9	0.50	0.0000086	0.0000077	6.7
		Minimum	560	<0.010	145	143	<1.0	<0.000010	<0.000010	6.3
		Maximum	590	0.011	174	188	<1.0	<0.000020	<0.000020	7.1
		Standard deviation	9.9	0.0042	7.3	11.6	0.00	0.0000023	0.0000025	0.6
		Geometric mean	577.3	0.0074	159.1	156.5	0.50	0.0000083	0.0000073	6.7
		First quartile	570	0.0065	155.2	148	0.5	6.30E-06	5.00E-06	6.5
		Third quartile	585	0.0095	164	160.5	0.5	1.00E-05	1.00E-05	6.9
		90th Percentile	590	0.0104	169.5	171.5	0.5	1.00E-05	1.00E-05	7
	January 2026	Average	576.7	0.0108	141.5	136.9	0.50	0.0000055	0.0000063	5.6
		Minimum	560	<0.010	132	131	<1.0	<0.000010	<0.000010	5.3
		Maximum	580	0.014	152	156	<1.0	<0.000020	0.000013	5.9
		Standard deviation	7.1	0.0036	6.2	8.0	0.00	0.0000016	0.0000028	0.3
		Geometric mean	576.6	0.0102	141.4	136.7	0.50	0.0000054	0.0000059	5.6
		First quartile	580	0.01	137.5	132	1	5.00E-06	5.00E-06	5.4
		Third quartile	580	0.013	146.2	140.2	1	5.00E-06	5.00E-06	5.9
		90th Percentile	580	0.0136	147.5	144.3	0.5	5.50E-06	1.03E-05	5.9
	February 2026	Average	565.0	0.01	132.2	128.0	0.50	0.0000066	0.0000050	5.0
		Minimum	560	0.01	126	115	<1.0	<0.000010	<0.000010	5
		Maximum	570	0.01	137	132	<1.0	0.000013	<0.000010	5
		Standard deviation	7.1	0.00	4.0	7.4	0.00	0.0000036	0.0000000	0.0
		Geometric mean	565.0	0.01	132.2	127.8	0.50	0.0000061	0.0000050	5.0
		First quartile	562.5	0.01	132	129	0.5	1.00E-05	1.00E-05	5
		Third quartile	567.5	0.01	133	132	0.5	1.00E-05	1.00E-05	5
		90th Percentile	569	0.01	135.4	132	0.5	9.80E-06	5.00E-06	5
	March 2026	Average			136.3	135.7		0.0000066	0.0000064	
		Minimum			123	126		<0.000010	<0.000010	
		Maximum			157	151		0.000019	0.000012	
		Standard deviation			10.2	8.9		0.0000047	0.0000029	
		Geometric mean			136.0	135.4		0.0000058	0.0000060	
		First quartile			132	128		1.00E-05	1.00E-05	
		Third quartile			137	142		1.00E-05	1.00E-05	
		90th Percentile			147.4	146.2		7.80E-06	1.12E-05	

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Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
SP3C End of the SP3 Channel	December 2025	Average	0.00085	0.00083	0.00086	0.00077	0.000185	0.00139	0.0470	3.82	0.3890
		Minimum	0.00046	0.00044	<0.0010	<0.0010	<0.00020	<0.0010	<0.050	2.6	0.023
		Maximum	0.00131	0.00137	<0.0020	<0.0020	0.00036	0.0023	0.069	4.98	1.04
		Standard deviation	0.00025	0.00025	0.00023	0.00025	0.000058	0.00053	0.0311	0.79	0.2829
		Geometric mean	0.00081	0.00080	0.00083	0.00073	0.000175	0.00127	0.0415	3.74	0.2610
		First quartile	0.00069	0.00065	0.00063	0.0005	0.0002	0.00117	0.036	3	0.183
		Third quartile	0.00101	0.00094	0.001	0.001	0.0002	0.0017	0.058	4.36	0.5682
		90th Percentile	0.00126	0.00126	0.001	0.001	0.0002	0.00187	0.0646	4.7	0.7356
	January 2026	Average	0.00111	0.00112	0.00055	0.00055	0.000110	0.00129	0.069	2.70	0.429
		Minimum	0.00067	0.00071	<0.0010	<0.0010	<0.00020	0.00086	0.057	2.34	0.12
		Maximum	0.00168	0.00162	<0.0020	<0.0020	<0.00040	0.00151	0.079	3.13	0.912
		Standard deviation	0.00029	0.00026	0.00016	0.00016	0.000032	0.00021	0.009	0.23	0.306
		Geometric mean	0.00108	0.00109	0.00054	0.00054	0.000107	0.00127	0.069	2.69	0.329
		First quartile	0.00101	0.00096	0.0005	0.0005	0.0001	0.00121	0.064	2.63	0.157
		Third quartile	0.00111	0.00119	0.0005	0.0005	0.0001	0.00142	0.075	2.8	0.639
		90th Percentile	0.00153	0.00148	0.00055	0.00055	0.00011	0.0015	0.077	2.94	0.853
	February 2026	Average	0.00174	0.00166	0.00050	0.00050	0.000100	0.00138	0.075	1.91	0.547
		Minimum	0.00139	0.00133	<0.0010	<0.0010	<0.00020	0.00109	0.075	1.47	0.225
		Maximum	0.00213	0.00201	<0.0010	<0.0010	<0.00020	0.00162	0.075	2.26	0.774
		Standard deviation	0.00031	0.00031	0.00000	0.00000	0.000000	0.00025	0.000	0.28	0.199
		Geometric mean	0.00172	0.00163	0.00050	0.00050	0.000100	0.00137	0.075	1.89	0.508
		First quartile	0.00146	0.00134	0.001	0.001	0.0002	0.00116	0.075	1.89	0.564
		Third quartile	0.00188	0.00184	0.001	0.001	0.0002	0.00161	0.075	1.96	0.588
		90th Percentile	0.00203	0.00194	0.0005	0.0005	0.0001	0.00162	0.075	2.14	0.7
	March 2026	Average	0.00185	0.00188	0.00050	0.00050	0.000133	0.00129		1.80	0.3527
		Minimum	0.00119	0.00123	<0.0010	<0.0010	<0.00020	0.00093		1.57	0.0582
		Maximum	0.00263	0.00266	<0.0010	<0.0010	0.0004	0.00171		2.08	0.66
		Standard deviation	0.00052	0.00059	0.00000	0.00000	0.000100	0.00030		0.18	0.2727
		Geometric mean	0.00178	0.00180	0.00050	0.00050	0.000117	0.00125		1.79	0.2227
		First quartile	0.00142	0.00137	0.001	0.001	0.0002	0.00106		1.61	0.0698
		Third quartile	0.00239	0.00254	0.001	0.001	0.0002	0.00154		1.9	0.561
		90th Percentile	0.00246	0.00262	0.0005	0.0005	0.00016	0.00169		2.01	0.6112

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Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
SP3C End of the SP3 Channel	December 2025	Average	0.50	5.99	5.86	0.0151	0.0151	20.3	19.6	0.744	0.762
		Minimum	<1.0	5.71	5.4	0.0125	0.0125	17.7	18	0.633	0.646
		Maximum	<1.0	6.35	6.80	0.0181	0.0183	22.2	23.8	0.885	0.87
		Standard deviation	0.00	0.17	0.31	0.0016	0.0015	1.2	1.4	0.071	0.065
		Geometric mean	0.50	5.99	5.85	0.0151	0.0150	20.3	19.6	0.741	0.760
		First quartile	0.5	5.89	5.69	0.014	0.0141	19.8	18.4	0.69	0.703
		Third quartile	0.5	6.12	6.04	0.0163	0.0158	21.1	20.2	0.78	0.812
		90th Percentile	0.5	6.19	6.15	0.0165	0.0171	21.5	21.2	0.836	0.822
	January 2026	Average	0.50	5.55	5.44	0.0132	0.0119	16.7	16.1	0.622	0.631
		Minimum	<1.0	5.27	5.15	0.0119	0.0101	15.4	14.5	0.573	0.567
		Maximum	<1.0	5.79	6.1	0.0148	0.0137	18.6	17.5	0.695	0.69
		Standard deviation	0.00	0.15	0.30	0.0009	0.0012	1.1	1.0	0.041	0.040
		Geometric mean	0.50	5.55	5.43	0.0132	0.0119	16.7	16.0	0.621	0.630
		First quartile	1	5.45	5.21	0.0126	0.0113	15.7	15.4	0.591	0.605
		Third quartile	1	5.65	5.49	0.0135	0.0126	17.3	16.8	0.633	0.654
		90th Percentile	0.5	5.72	5.83	0.0144	0.013	17.9	17.1	0.678	0.686
	February 2026	Average	0.50	5.18	5.06	0.0126	0.0121	14.9	14.9	0.577	0.600
		Minimum	<1.0	5	4.88	0.0112	0.0114	13.6	14.5	0.534	0.574
		Maximum	<1.0	5.29	5.16	0.0141	0.013	15.4	15.5	0.604	0.628
		Standard deviation	0.00	0.11	0.12	0.0014	0.0006	0.7	0.4	0.034	0.022
		Geometric mean	0.50	5.18	5.05	0.0125	0.0121	14.9	14.9	0.576	0.600
		First quartile	0.5	5.18	5.02	0.0114	0.012	15	14.7	0.546	0.583
		Third quartile	0.5	5.23	5.16	0.0139	0.0123	15.2	15.2	0.603	0.616
		90th Percentile	0.5	5.27	5.16	0.014	0.0127	15.3	15.4	0.604	0.623
	March 2026	Average		5.02	5.07	0.0131	0.0131	15.5	15.7	0.609	0.604
		Minimum		4.74	4.78	0.0116	0.0103	14.2	14	0.525	0.51
		Maximum		5.25	5.45	0.0146	0.0156	17.1	16.9	0.701	0.687
		Standard deviation		0.21	0.20	0.0010	0.0017	0.9	1.0	0.072	0.061
		Geometric mean		5.01	5.07	0.0131	0.0130	15.5	15.7	0.605	0.601
		First quartile		4.77	4.96	0.0126	0.0122	15.2	15.2	0.547	0.568
		Third quartile		5.19	5.11	0.0138	0.0138	16	16.5	0.695	0.672
		90th Percentile		5.23	5.27	0.014	0.0155	16.2	16.9	0.698	0.677

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Monthly Statistics for November 2025 to March 31, 2026												
		Statistic	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Stn.Code	Date		Mo-D	Mo-T	Na-D	Na-T	Ni-D	Ni-T	Pb-D	Pb-T	S-T	S-D
SP3C	December 2025	Average	0.00086	0.00077	371.3	359.1	0.00115	0.00117	0.000173	0.000155	272.4	275.0
End of the SP3 Channel		Minimum	<0.0010	<0.0010	336	324	<0.0010	<0.0010	<0.00020	<0.00020	250	252
		Maximum	<0.0020	<0.0020	409	418	0.002	0.0021	<0.00040	<0.00040	318	305
		Standard deviation	0.00023	0.00025	16.8	21.3	0.00038	0.00047	0.000046	0.000051	15.6	12.5
		Geometric mean	0.00083	0.00073	371.0	358.5	0.00109	0.00108	0.000166	0.000146	272.0	274.7
		First quartile	0.00063	0.0005	361.8	344.8	0.001	0.001	0.000125	0.0001	263	267
		Third quartile	0.001	0.001	384.8	372	0.001	0.00137	0.0002	0.0002	279.8	283.5
		90th Percentile	0.001	0.001	388.9	375.9	0.00187	0.00197	0.0002	0.0002	289.7	289.7
	January 2026	Average	0.00055	0.00055	338.4	331.8	0.00147	0.00145	0.000110	0.000110	239.4	246.5
		Minimum	<0.0010	<0.0010	310	308	<0.0010	<0.0010	<0.00020	<0.00020	215	231
		Maximum	<0.0020	<0.0020	374	354	0.0022	0.0022	<0.00040	<0.00040	264	258
		Standard deviation	0.00016	0.00016	21.5	19.0	0.00049	0.00050	0.000032	0.000032	14.8	8.9
		Geometric mean	0.00054	0.00054	337.8	331.3	0.00138	0.00135	0.000107	0.000107	239.0	246.4
		First quartile	0.0005	0.0005	324	311.5	0.00133	0.0012	0.0001	0.0001	228.8	242
		Third quartile	0.0005	0.0005	354.8	348.8	0.0016	0.00175	0.0001	0.0001	249	253.2
		90th Percentile	0.00055	0.00055	365.9	351.3	0.00211	0.00202	0.00011	0.00011	255	254.4
	February 2026	Average	0.00050	0.00050	300.0	294.4	0.0025	0.0024	0.000100	0.000100	204.6	210.6
		Minimum	<0.0010	<0.0010	274	287	0.002	0.0019	<0.00020	<0.00020	201	201
		Maximum	<0.0010	<0.0010	320	309	0.003	0.0029	<0.00020	<0.00020	210	217
		Standard deviation	0.00000	0.00000	16.7	8.5	0.0005	0.0005	0.000000	0.000000	3.8	6.7
		Geometric mean	0.00050	0.00050	299.6	294.3	0.0024	0.0023	0.000100	0.000100	204.6	210.5
		First quartile	0.001	0.001	298	291	0.002	0.0019	0.0002	0.0002	202	207
		Third quartile	0.001	0.001	306	293	0.0029	0.0028	0.0002	0.0002	207	216
		90th Percentile	0.0005	0.0005	314.4	302.6	0.003	0.0029	0.0001	0.0001	208.8	216.6
	March 2026	Average	0.00050	0.00050	298.4	298.2	0.0026	0.0026	0.000100	0.000100	220.6	216.6
		Minimum	<0.0010	<0.0010	279	267	0.0018	0.0018	<0.00020	<0.00020	197	210
		Maximum	<0.0010	<0.0010	316	314	0.0033	0.0036	<0.00020	<0.00020	248	236
		Standard deviation	0.00000	0.00000	11.9	14.1	0.0006	0.0007	0.000000	0.000000	16.0	8.1
		Geometric mean	0.00050	0.00050	298.2	297.9	0.0025	0.0025	0.000100	0.000100	220.0	216.4
		First quartile	0.001	0.001	290	294	0.0021	0.002	0.0002	0.0002	214	212
		Third quartile	0.001	0.001	308	303	0.0032	0.0034	0.0002	0.0002	229	219
		90th Percentile	0.0005	0.0005	311.2	313.2	0.0033	0.0035	0.0001	0.0001	240.8	224

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Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T
SP3C End of the SP3 Channel	December 2025	Average	0.000432	0.000386	0.000086	0.000077	3.20	3.36	0.00432	0.00386	1.66	1.67
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.91	3.02	<0.0050	<0.0050	1.45	1.49
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.47	4.02	<0.010	<0.010	1.88	2
		Standard deviation	0.000114	0.000127	0.000023	0.000025	0.16	0.21	0.00114	0.00127	0.10	0.14
		Geometric mean	0.000414	0.000365	0.000083	0.000073	3.20	3.35	0.00414	0.00365	1.65	1.66
		First quartile	0.000313	0.00025	6.30E-05	5.00E-05	3.11	3.25	0.00313	0.0025	1.58	1.58
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.28	3.46	0.005	0.005	1.72	1.74
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.43	3.54	0.005	0.005	1.77	1.8
	January 2026	Average	0.000275	0.000275	0.000055	0.000055	3.18	3.06	0.00275	0.00275	1.51	1.45
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.98	2.65	<0.0050	<0.0050	1.38	1.27
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.36	3.44	<0.010	<0.010	1.72	1.84
		Standard deviation	0.000079	0.000079	0.000016	0.000016	0.11	0.26	0.00079	0.00079	0.11	0.15
		Geometric mean	0.000268	0.000268	0.000054	0.000054	3.18	3.05	0.00268	0.00268	1.51	1.44
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.13	2.91	0.0025	0.0025	1.44	1.4
		Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.26	3.29	0.0025	0.0025	1.58	1.46
		90th Percentile	0.000275	0.000275	5.50E-05	5.50E-05	3.29	3.36	0.00275	0.00275	1.62	1.54
	February 2026	Average	0.000250	0.000250	0.000050	0.000050	3.13	3.11	0.00250	0.00250	1.37	1.32
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.83	2.86	<0.0050	<0.0050	1.27	1.21
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.36	3.27	<0.0050	<0.0050	1.49	1.42
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.19	0.16	0.00000	0.00000	0.08	0.09
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.13	3.11	0.00250	0.00250	1.37	1.32
		First quartile	0.0005	0.0005	0.0001	0.0001	3.12	3.04	0.005	0.005	1.31	1.27
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.17	3.2	0.005	0.005	1.39	1.4
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.28	3.24	0.0025	0.0025	1.45	1.41
	March 2026	Average	0.000250	0.000250	0.000050	0.000050	3.12	3.26	0.00250	0.00250	1.41	1.40
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.85	3	<0.0050	<0.0050	1.27	1.27
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.43	3.69	<0.0050	<0.0050	1.5	1.55
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.20	0.24	0.00000	0.00000	0.09	0.11
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.11	3.25	0.00250	0.00250	1.41	1.40
		First quartile	0.0005	0.0005	0.0001	0.0001	2.96	3.13	0.005	0.005	1.33	1.29
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.26	3.3	0.005	0.005	1.48	1.49
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.33	3.62	0.0025	0.0025	1.5	1.52

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Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L TI-D	mg/L TI-T	mg/L U-D	mg/L U-T
SP3C End of the SP3 Channel	December 2025	Average	0.00432	0.00386	0.0000086	0.0000077	0.000091	0.000097
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	0.00016	0.00016
		Standard deviation	0.00114	0.00127	0.0000023	0.0000025	0.000026	0.000027
		Geometric mean	0.00414	0.00365	0.0000083	0.0000073	0.000087	0.000093
		First quartile	0.00313	0.0025	6.30E-06	5.00E-06	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.000119
	January 2026	Average	0.00275	0.00275	0.0000055	0.0000055	0.000067	0.000061
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.000020	<0.000020	0.00011	0.00011
		Standard deviation	0.00079	0.00079	0.0000016	0.0000016	0.000028	0.000023
		Geometric mean	0.00268	0.00268	0.0000054	0.0000054	0.000063	0.000058
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	8.80E-05	5.00E-05
		90th Percentile	0.00275	0.00275	5.50E-06	5.50E-06	0.00011	0.000101
	February 2026	Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
	March 2026	Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

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Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
SP3C End of the SP3 Channel	December 2025	Average	0.00432	0.00386	0.00432	0.00386	0.000086	0.000077
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00114	0.00127	0.00114	0.00127	0.000023	0.000025
		Geometric mean	0.00414	0.00365	0.00414	0.00365	0.000083	0.000073
		First quartile	0.00313	0.0025	0.00313	0.0025	6.30E-05	5.00E-05
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	January 2026	Average	0.00275	0.00275	0.00275	0.00275	0.000055	0.000055
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00079	0.00079	0.00079	0.00079	0.000016	0.000016
		Geometric mean	0.00268	0.00268	0.00268	0.00268	0.000054	0.000054
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		90th Percentile	0.00275	0.00275	0.00275	0.00275	5.50E-05	5.50E-05
	February 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
	March 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05

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Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	m	USG	m ³ /s	pH Units	pH Units	uS/cm	C	mV
RBPO	November 2025	Average	Mine Water Level	Totilizer	Flow	pH-F	pH-L	Cond-F	Temp-F	ORP-F
River Barrier Pillar Outlet	November 2025	Average				7.27	7.96	2430	8.191	13.8
		Minimum				7.15	7.75	2197.5	7.464	-52.4
		Maximum				7.38	8.28	2514.5	9.007	78.3
		Standard deviation				0.08	0.21	93.6	0.552	47
		Geometric mean				7.27	7.96	2428.3	8.174	36.2
		First quartile				7.21	7.78	2417.2	7.626	-28.1
		Third quartile				7.34	8.13	2476	8.55	46.1
		90th Percentile				7.37	8.19	2496.7	8.761	56.7
	December 2025	Average				7.25	8.11	2168.7	7.770	177.4
		Minimum				6.76	7.84	1968.7	6.71	143.5
		Maximum				7.55	8.23	2460.4	8.965	225.2
		Standard deviation				0.16	0.12	180.2	0.643	22.7
		Geometric mean				7.25	8.10	2161.7	7.744	176.1
		First quartile				7.2	8.04	2041.8	7.468	161.2
		Third quartile				7.32	8.2	2380	8.163	191.5
		90th Percentile				7.35	8.22	2412	8.51	211.1
	January 2026	Average				6.91	8.02	2011.3	7.880	212.4
		Minimum				6.57	7.89	1714.6	6.753	156.5
		Maximum				7.14	8.2	2266.8	9.557	246.4
		Standard deviation				0.22	0.11	201.3	1.074	30.5
		Geometric mean				6.90	8.02	2002.1	7.816	210.2
		First quartile				6.75	7.95	1850.5	6.911	207.8
		Third quartile				7.08	8.12	2191.8	8.693	229.2
		90th Percentile				7.1	8.14	2236	9.216	234.9
	February 2026	Average				7.06	8.09	1361.4	8.264	165.2
		Minimum				6.64	8.02	136	7.422	139.3
		Maximum				7.27	8.15	1836.8	9.33	192.1
		Standard deviation				0.29	0.09	818.5	0.793	26.4
		Geometric mean				7.06	8.08	931.5	8.237	163.8
		First quartile				7	8.05	1319.3	7.897	151.8
		Third quartile				7.23	8.12	1778.4	8.52	178.1
		90th Percentile				7.25	8.14	1813.4	9.006	186.5
	March 2026	Average				7.16	8.16	1798.3	8.434	181.1
		Minimum				7.03	8.1	1715.2	6.873	82.4
		Maximum				7.27	8.22	1958.1	9.497	229
		Standard deviation				0.10	0.08	75.2	0.829	41.8
		Geometric mean				7.16	8.16	1797.0	8.396	175.4
		First quartile				7.07	8.13	1738.8	8.177	165.7
		Third quartile				7.24	8.19	1837.9	8.936	198.6
		90th Percentile				7.25	8.21	1866.1	9.335	227.7

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RBPO	November 2025	Average	Turb-F	TSS	H2SEquiv	S2-T	SO4-D	DOC	Hard-T	Hard-D
River Barrier Pillar Outlet	November 2025	Average	63.73	13.6			781	0.91	519	523
		Minimum	13.38	6.4			710	0.78	433	427
		Maximum	108.65	22			830	1	583	562
		Standard deviation	30.39	5.1			36	0.07	52	40
		Geometric mean	54.82	12.7			780	0.91	516	521
		First quartile	41.72	10			772	0.89	506	511
		Third quartile	81.2	16			800	0.96	546	541
		90th Percentile	95.62	20.4			809	0.98	565	557
		Average	51.63	9.4			718	0.97	473	485
	December 2025	Minimum	23.86	5.2			630	0.83	401	433
		Maximum	83.35	14			790	1.1	536	539
		Standard deviation	17.73	3.1			44	0.19	36	28
		Geometric mean	48.44	8.8			717	0.96	471	484
		First quartile	37.56	6			692	0.9	452	465
		Third quartile	66.25	12			750	1.03	501	502
		90th Percentile	70.31	13			780	1.07	522	524
		Average	37.31	6.3			643.3		411.6	420.4
	January 2026	Minimum	18.53	5.2			610		380	400
		Maximum	64.71	7.6			660		450	440
		Standard deviation	14.35	0.7			17.3		21.2	12.2
		Geometric mean	35.07	6.2			643.1		411.1	420.2
		First quartile	30.38	6			630		397.8	416.2
		Third quartile	38.47	6.4			660		424.8	427.2
		90th Percentile	60.07	6.9			660		436.5	432.8
		Average	10.03	3.52			553.3		378.2	385.0
	February 2026	Minimum	-11.01	<1.0			530		370	362
		Maximum	19.49	4.8			580		386	396
		Standard deviation	14.14	2.05			25.2		7.1	15.7
		Geometric mean	16.96	2.61			553.0		378.2	384.8
		First quartile	8.95	3.12			540		373.8	381.5
		Third quartile	16.91	4.8			565		383	394.5
		90th Percentile	18.46	4.8			574		384.8	395.4
		Average	20.10	4.0			594		399.1	402.3
	March 2026	Minimum	10.59	2.4			550		359	362
		Maximum	26.64	5.6			650		436	447
		Standard deviation	5.33	0.9			34		26.6	26.3
		Geometric mean	19.38	3.8			593		398.3	401.6
		First quartile	17	3.2			570		387	385
		Third quartile	24.5	4.4			610		427	419
		90th Percentile	25	4.6			642		430.4	431.8

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Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Acidity45	mg/L Acidity83	mg/L Alk-PP	mg/L Alk-T	mg/L Ag-D	mg/L Ag-T	mg/L Al-T	mg/L Al-D
RBPO	November 2025	Average	0.50	1.29	0.50	492.9	0.0000200	0.0000189	0.0361	0.00637
River Barrier Pillar Outlet		Minimum	<1.0	<1.0	<1.0	450	<0.000040	<0.000020	0.0069	<0.0060
		Maximum	<1.0	3.1	<1.0	510	<0.000040	<0.000040	0.132	0.0333
		Standard deviation	0.00	1.14	0.00	19.8	0.0000000	0.0000033	0.0397	0.0101
		Geometric mean	0.50	0.94	0.50	492.5	0.0000200	0.0000185	0.024	0.00392
		First quartile	0.5	0.5	0.5	495	4.00E-05	4.00E-05	0.0138	0.006
		Third quartile	0.5	1.95	0.5	500	4.00E-05	4.00E-05	0.0367	0.006
		90th Percentile	0.5	2.86	0.5	504	2.00E-05	2.00E-05	0.0754	0.00906
	December 2025	Average	0.50	2.75	0.50	468.2	0.0000171	0.0000157	0.02466	0.00257
		Minimum	<1.0	<1.0	<1.0	430	<0.000020	<0.000020	<0.0060	<0.0030
		Maximum	<1.0	13.4	<1.0	480	<0.000040	<0.000040	0.118	<0.0060
		Standard deviation	0.00	3.39	0.00	13.3	0.0000046	0.0000051	0.02691	0.00069
		Geometric mean	0.50	1.42	0.50	468.1	0.0000164	0.0000149	0.01616	0.00246
		First quartile	1	1	1	460	2.00E-05	2.00E-05	0.0106	0.003
		Third quartile	1	4.7	1	480	4.00E-05	4.00E-05	0.0263	0.006
		90th Percentile	0.5	5.42	0.5	480	4.00E-05	4.00E-05	0.0583	0.006
	January 2026	Average	0.50	3.69	0.50	471.1	0.0000110	0.0000130	0.01113	0.00165
		Minimum	<1.0	<1.0	<1.0	460	<0.000020	<0.000020	<0.0060	<0.0030
		Maximum	<1.0	10.7	<1.0	480	<0.000040	<0.000040	0.0262	<0.0060
		Standard deviation	0.00	3.25	0.00	7.8	0.0000032	0.0000048	0.00726	0.00047
		Geometric mean	0.50	2.70	0.50	471.1	0.0000107	0.0000123	0.00894	0.00161
		First quartile	0.5	2.35	1	470	1.00E-05	1.00E-05	0.00485	0.0015
		Third quartile	0.5	3.4	1	480	1.00E-05	1.75E-05	0.015	0.0015
		90th Percentile	0.5	6.44	0.5	480	1.10E-05	2.00E-05	0.01648	0.00165
	February 2026	Average			0.50	455.0	0.0000100	0.0000100	0.0107	0.00150
		Minimum			<1.0	450	<0.000020	<0.000020	0.003	<0.0030
		Maximum			<1.0	460	<0.000020	<0.000020	0.0263	<0.0030
		Standard deviation			0.00	7.1	0.0000000	0.0000000	0.0107	0.00000
		Geometric mean			0.50	455.0	0.0000100	0.0000100	0.0075	0.00150
		First quartile			0.5	452.5	1.00E-05	1.00E-05	0.004	0.0015
		Third quartile			0.5	457.5	1.00E-05	1.00E-05	0.0135	0.0015
		90th Percentile			0.5	459	1.00E-05	1.00E-05	0.0212	0.0015
	March 2026	Average			0.50	460.0	0.0000100	0.0000100	0.00951	0.00173
		Minimum			<1.0	460	<0.000020	<0.000020	<0.0030	<0.0030
		Maximum			<1.0	460	<0.000020	<0.000020	0.0247	0.0036
		Standard deviation			0.00	0.0	0.0000000	0.0000000	0.00757	0.00070
		Geometric mean			0.50	460.0	0.0000100	0.0000100	0.00723	0.00165
		First quartile			0.5	460	2.00E-05	2.00E-05	0.0052	0.003
		Third quartile			0.5	460	2.00E-05	2.00E-05	0.0084	0.003
		90th Percentile			0.5	460	1.00E-05	1.00E-05	0.02062	0.00192

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L As-T	mg/L As-D	mg/L B-D	mg/L B-T	mg/L Ba-D	mg/L Ba-T	mg/L Be-D	mg/L Be-T	mg/L Bi-D	mg/L Bi-T
RBPO	November 2025	Average	0.00136	0.00064	1.03	1.035	0.041	0.0431	0.000100	0.000094	0.00100	0.00094
River Barrier Pillar Outlet		Minimum	0.00092	0.00051	0.85	0.9	0.0222	0.0246	<0.00020	<0.00010	<0.0020	<0.0010
		Maximum	0.002	0.00142	1.27	1.19	0.119	0.115	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00036	0.00029	0.12	0.116	0.0314	0.0289	0.000000	0.000017	0.00000	0.00017
		Geometric mean	0.00132	0.00061	1.02	1.029	0.0346	0.0378	0.000100	0.000093	0.00100	0.00093
		First quartile	0.00116	0.00053	0.99	0.92	0.0247	0.0281	0.0002	0.0002	0.002	0.002
		Third quartile	0.00154	0.00057	1.06	1.12	0.0393	0.0394	0.0002	0.0002	0.002	0.002
		90th Percentile	0.00179	0.00076	1.15	1.19	0.0708	0.0706	0.0001	0.0001	0.001	0.001
	December 2025	Average	0.00139	0.00062	1.089	1.076	0.0234	0.0256	0.000086	0.000079	0.00086	0.00079
		Minimum	0.00079	0.0003	0.843	0.88	0.019	0.0201	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00196	0.00089	1.29	1.51	0.0304	0.0331	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00038	0.00018	0.111	0.137	0.0041	0.0041	0.000023	0.000025	0.00023	0.00025
		Geometric mean	0.00133	0.00060	1.084	1.068	0.0231	0.0253	0.000082	0.000074	0.00082	0.00074
		First quartile	0.00091	0.00042	1.01	0.972	0.0203	0.0228	0.0001	0.0001	0.001	0.001
		Third quartile	0.00166	0.00075	1.14	1.13	0.0288	0.0295	0.0002	0.0002	0.002	0.002
		90th Percentile	0.00178	0.00084	1.2	1.23	0.0291	0.0316	0.0002	0.0002	0.002	0.002
	January 2026	Average	0.00160	0.00097	1.112	0.971	0.0206	0.0221	0.000055	0.000065	0.00055	0.00065
		Minimum	0.00137	0.00079	0.914	0.807	0.0183	0.0187	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00187	0.00121	1.31	1.19	0.0274	0.0291	<0.00020	<0.00020	<0.0020	<0.0020
		Standard deviation	0.00015	0.00018	0.127	0.132	0.0027	0.0029	0.000016	0.000024	0.00016	0.00024
		Geometric mean	0.00159	0.00096	1.105	0.963	0.0204	0.0219	0.000054	0.000062	0.00054	0.00062
		First quartile	0.00149	0.0008	1.022	0.851	0.0189	0.0205	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00168	0.00116	1.185	1.055	0.0209	0.0232	5.00E-05	8.80E-05	0.0005	0.00088
		90th Percentile	0.0018	0.0012	1.211	1.136	0.0229	0.0241	5.50E-05	0.0001	0.00055	0.001
	February 2026	Average	0.00176	0.00130	0.937	0.894	0.0216	0.0228	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00149	0.00118	0.803	0.844	0.0205	0.022	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.00197	0.00146	1.07	0.954	0.0246	0.0241	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00022	0.00012	0.110	0.053	0.0020	0.0010	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00175	0.00130	0.932	0.893	0.0216	0.0228	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00163	0.00122	0.888	0.853	0.0206	0.0221	5.00E-05	5.00E-05	0.0005	0.0005
		Third quartile	0.00191	0.00137	0.987	0.931	0.0218	0.0233	5.00E-05	5.00E-05	0.0005	0.0005
		90th Percentile	0.00195	0.00142	1.037	0.945	0.0235	0.0238	5.00E-05	5.00E-05	0.0005	0.0005
	March 2026	Average	0.00211	0.00151	0.953	0.931	0.0218	0.0229	0.000050	0.000050	0.00050	0.00050
		Minimum	0.00183	0.00131	0.868	0.831	0.0205	0.0215	<0.00010	<0.00010	<0.0010	<0.0010
		Maximum	0.0023	0.00172	1.08	1.09	0.0238	0.0244	<0.00010	<0.00010	<0.0010	<0.0010
		Standard deviation	0.00015	0.00012	0.072	0.096	0.0011	0.0011	0.000000	0.000000	0.00000	0.00000
		Geometric mean	0.00211	0.00150	0.951	0.927	0.0218	0.0229	0.000050	0.000050	0.00050	0.00050
		First quartile	0.00202	0.00145	0.88	0.854	0.021	0.0218	0.0001	0.0001	0.001	0.001
		Third quartile	0.00219	0.00155	1	0.997	0.0224	0.0237	0.0001	0.0001	0.001	0.001
		90th Percentile	0.00228	0.00164	1.024	1.066	0.0234	0.0243	5.00E-05	5.00E-05	0.0005	0.0005

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026										
Stn.Code	Date	Statistic	mg/L Bicarb	mg/L Br-D	mg/L Ca-D	mg/L Ca-T	mg/L Carb	mg/L Cd-D	mg/L Cd-T	mg/L Cl-D
RBPO	November 2025	Average	601.4	0.025	174.4	172.7	0.50	0.0000187	0.0000181	11.6
River Barrier Pillar Outlet		Minimum	550	0.022	141	141	<1.0	<0.000020	<0.000020	11
		Maximum	620	0.027	189	196	<1.0	0.000062	0.000064	12
		Standard deviation	23.4	0.001	14.9	18.3	0.00	0.0000184	0.0000183	0.5
		Geometric mean	601.0	0.025	173.8	171.7	0.50	0.0000141	0.0000138	11.6
		First quartile	605	0.025	167	169	0.5	2.00E-05	2.00E-05	11
		Third quartile	610	0.025	182	183	0.5	2.00E-05	2.00E-05	12
		90th Percentile	614	0.026	188.2	186.4	0.5	4.12E-05	3.60E-05	12
	December 2025	Average	571.8	0.0170	160.6	157.6	0.50	0.0000086	0.0000081	8.2
		Minimum	530	<0.010	145	132	<1.0	<0.000010	<0.000010	5.8
		Maximum	580	<0.10	180	180	<1.0	<0.000020	0.00001	10
		Standard deviation	13.8	0.0101	9.9	12.8	0.00	0.0000023	0.0000025	1.3
		Geometric mean	571.6	0.0146	160.3	157.1	0.50	0.0000082	0.0000077	8.1
		First quartile	570	0.013	153	151.2	1	1.00E-05	1.00E-05	7.7
		Third quartile	580	0.019	167	165.2	1	2.00E-05	2.00E-05	8.8
		90th Percentile	580	0.0212	175	173.5	0.5	2.00E-05	2.00E-05	9.8
	January 2026	Average	575.6	0.0111	140.3	138.0	0.50	0.0000055	0.0000076	5.8
		Minimum	560	<0.010	132	129	<1.0	<0.000010	<0.000010	5
		Maximum	590	0.017	147	153	<1.0	<0.000020	0.000016	6.6
		Standard deviation	8.8	0.0046	4.5	7.6	0.00	0.0000016	0.0000038	0.6
		Geometric mean	575.5	0.0101	140.2	137.8	0.50	0.0000054	0.0000069	5.8
		First quartile	570	0.008	138.2	131.5	1	5.00E-06	5.00E-06	5.4
		Third quartile	580	0.0135	143.5	141	1	5.00E-06	1.00E-05	6.2
		90th Percentile	582	0.0152	144.3	146.7	0.5	5.50E-06	1.06E-05	6.5
	February 2026	Average	555.0	0.0080	129.5	126.2	0.50	0.0000050	0.0000050	4.8
		Minimum	550	<0.010	121	121	<1.0	<0.000010	<0.000010	4.3
		Maximum	560	0.014	133	131	<1.0	<0.000010	<0.000010	5.5
		Standard deviation	7.1	0.0052	5.7	4.1	0.00	0.0000000	0.0000000	0.6
		Geometric mean	555.0	0.0070	129.4	126.2	0.50	0.0000050	0.0000050	4.8
		First quartile	552.5	0.005	128.5	124.8	0.5	5.00E-06	5.00E-06	4.4
		Third quartile	557.5	0.0095	133	128	0.5	5.00E-06	5.00E-06	5
		90th Percentile	559	0.0122	133	129.8	0.5	5.00E-06	5.00E-06	5.3
	March 2026	Average	560.0	0.0084	135.2	134.0	0.50	0.0000064	0.0000081	4.7
		Minimum	560	<0.010	122	121	<1.0	<0.000010	<0.000010	4
		Maximum	560	0.012	151	147	<1.0	0.000018	0.000015	5.3
		Standard deviation	0.0	0.0033	9.5	9.0	0.00	0.0000043	0.0000039	0.4
		Geometric mean	560.0	0.0078	134.9	133.7	0.50	0.0000058	0.0000073	4.7
		First quartile	560	0.005	127	128	0.5	1.00E-05	1.00E-05	4.5
		Third quartile	560	0.011	142	143	0.5	1.00E-05	1.10E-05	4.8
		90th Percentile	560	0.012	145.4	144.6	0.5	7.60E-06	1.26E-05	5.1

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Co-D	mg/L Co-T	mg/L Cr-D	mg/L Cr-T	mg/L Cu-D	mg/L Cu-T	mg/L F-D	mg/L Fe-T	mg/L Fe-D
RBPO	November 2025	Average	0.000449	0.000419	0.00100	0.00094	0.000271	0.00061	0.0659	5.02	1.007
River Barrier Pillar Outlet		Minimum	<0.00040	<0.00040	<0.0020	<0.0010	<0.00040	<0.0010	<0.050	1.58	0.215
		Maximum	0.00164	0.00135	<0.0020	<0.0020	0.00084	0.0013	0.078	7.92	5.57
		Standard deviation	0.000487	0.000401	0.00000	0.00017	0.000213	0.00027	0.0194	2.13	1.718
		Geometric mean	0.000319	0.000314	0.00100	0.00093	0.000235	0.00058	0.0621	4.51	0.547
		First quartile	0.0004	0.0004	0.002	0.002	0.0004	0.001	0.0655	3.77	0.347
		Third quartile	0.00042	0.00044	0.002	0.002	0.0004	0.001	0.076	6.28	0.615
		90th Percentile	0.000952	0.000894	0.001	0.001	0.000328	0.00083	0.0774	7.17	1.656
	December 2025	Average	0.000792	0.000789	0.00086	0.00079	0.000171	0.00144	0.0548	3.70	0.3189
		Minimum	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.0010	<0.050	2.27	<0.010
		Maximum	0.00129	0.00135	<0.0020	<0.0020	<0.00040	0.0041	0.069	6.61	0.717
		Standard deviation	0.000282	0.000278	0.00023	0.00025	0.000046	0.00084	0.0152	1.18	0.2555
		Geometric mean	0.000736	0.000735	0.00082	0.00074	0.000164	0.00123	0.0520	3.53	0.1667
		First quartile	0.00065	0.00063	0.001	0.001	0.0002	0.00079	0.053	2.74	0.054
		Third quartile	0.00094	0.00091	0.002	0.002	0.0004	0.0019	0.066	4.41	0.528
		90th Percentile	0.00124	0.00118	0.002	0.002	0.0004	0.0021	0.0664	5.18	0.695
	January 2026	Average	0.00111	0.00112	0.00055	0.00065	0.000110	0.00130	0.070	2.74	0.402
		Minimum	0.00068	0.00073	<0.0010	<0.0010	<0.00020	<0.0010	0.064	2.33	0.113
		Maximum	0.0016	0.00158	<0.0020	<0.0020	<0.00040	0.0016	0.076	3.09	0.861
		Standard deviation	0.00027	0.00026	0.00016	0.00024	0.000032	0.00033	0.005	0.23	0.297
		Geometric mean	0.00108	0.00110	0.00054	0.00062	0.000107	0.00125	0.070	2.73	0.301
		First quartile	0.00102	0.001	0.0005	0.0005	0.0001	0.00117	0.066	2.63	0.133
		Third quartile	0.00118	0.00118	0.0005	0.00088	0.0001	0.00151	0.073	2.81	0.619
		90th Percentile	0.0015	0.00152	0.00055	0.001	0.00011	0.00152	0.075	3	0.813
	February 2026	Average	0.00167	0.00165	0.00050	0.00050	0.000100	0.00134	0.077	1.73	0.448
		Minimum	0.00132	0.00127	<0.0010	<0.0010	<0.00020	0.00103	0.069	1.31	0.18
		Maximum	0.00214	0.00209	<0.0010	<0.0010	<0.00020	0.00164	0.087	2.04	0.579
		Standard deviation	0.00038	0.00040	0.00000	0.00000	0.000000	0.00031	0.009	0.31	0.182
		Geometric mean	0.00164	0.00162	0.00050	0.00050	0.000100	0.00132	0.077	1.71	0.408
		First quartile	0.00139	0.00134	0.0005	0.0005	0.0001	0.0011	0.072	1.62	0.412
		Third quartile	0.00189	0.00193	0.0005	0.0005	0.0001	0.0016	0.081	1.89	0.551
		90th Percentile	0.00204	0.00203	0.0005	0.0005	0.0001	0.00162	0.085	1.98	0.568
	March 2026	Average	0.00185	0.00188	0.00050	0.00050	0.000117	0.00128	0.067	1.77	0.3381
		Minimum	0.00121	0.00107	<0.0010	<0.0010	<0.00020	0.0009	0.053	1.56	0.0538
		Maximum	0.00264	0.00278	<0.0010	<0.0010	0.00025	0.00174	0.079	2.07	0.662
		Standard deviation	0.00052	0.00064	0.00000	0.00000	0.000050	0.00031	0.008	0.18	0.2691
		Geometric mean	0.00179	0.00178	0.00050	0.00050	0.000111	0.00124	0.067	1.76	0.2037
		First quartile	0.00144	0.00137	0.001	0.001	0.0002	0.00098	0.064	1.6	0.0568
		Third quartile	0.00234	0.00254	0.001	0.001	0.0002	0.00148	0.072	1.89	0.539
		90th Percentile	0.00248	0.00267	0.0005	0.0005	0.00013	0.00168	0.077	1.98	0.5708

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026											
Stn.Code	Date	Statistic	mg/L Hydrox	mg/L K-D	mg/L K-T	mg/L Li-D	mg/L Li-T	mg/L Mg-D	mg/L Mg-T	mg/L Mn-T	mg/L Mn-D
RBPO	November 2025	Average	0.50	6.47	6.21	0.0171	0.0176	21.3	21.3	0.897	0.907
River Barrier Pillar Outlet		Minimum	<1.0	5.74	5.32	0.0124	0.0125	17.9	17.2	0.786	0.801
		Maximum	<1.0	7.48	6.71	0.0189	0.0201	23.4	25.3	0.964	0.985
		Standard deviation	0.00	0.46	0.4	0.0021	0.0027	1.5	2.4	0.068	0.055
		Geometric mean	0.50	6.46	6.2	0.0170	0.0174	21.2	21.2	0.895	0.905
		First quartile	0.5	6.33	6.19	0.0164	0.0155	21.1	20.2	0.866	0.892
		Third quartile	0.5	6.58	6.48	0.0186	0.0195	21.7	22.5	0.955	0.933
		90th Percentile	0.5	6.8	6.56	0.0189	0.0197	22.5	24.3	0.964	0.969
	December 2025	Average	0.50	6.02	5.92	0.0151	0.0152	20.4	19.7	0.748	0.762
		Minimum	<1.0	5.67	5.48	0.0122	0.0119	17.1	17.1	0.59	0.621
		Maximum	<1.0	6.50	6.41	0.0186	0.0181	22.6	23.2	0.88	0.913
		Standard deviation	0.00	0.26	0.29	0.0018	0.0018	1.3	1.7	0.073	0.075
		Geometric mean	0.50	6.02	5.92	0.0150	0.0151	20.4	19.7	0.744	0.759
		First quartile	1	5.86	5.71	0.0134	0.014	19.9	18.7	0.712	0.736
		Third quartile	1	6.14	6.1	0.0163	0.0163	20.9	20.6	0.798	0.822
		90th Percentile	0.5	6.41	6.35	0.0167	0.0178	22	21.9	0.815	0.832
	January 2026	Average	0.50	5.59	5.49	0.0136	0.0126	17.0	16.4	0.614	0.624
		Minimum	<1.0	5.23	4.91	0.0125	0.011	15.3	14.1	0.568	0.564
		Maximum	<1.0	5.81	6.08	0.0152	0.0141	18.7	18.1	0.686	0.688
		Standard deviation	0.00	0.17	0.31	0.0009	0.0011	1.0	1.2	0.042	0.034
		Geometric mean	0.50	5.59	5.48	0.0136	0.0125	17.0	16.3	0.613	0.623
		First quartile	1	5.55	5.41	0.0131	0.0117	16.3	16	0.588	0.615
		Third quartile	1	5.7	5.63	0.0143	0.0135	17.6	17.2	0.637	0.635
		90th Percentile	0.5	5.75	5.68	0.0147	0.0138	18.1	17.4	0.68	0.651
	February 2026	Average	0.50	5.17	5.06	0.0129	0.0126	15.0	15.2	0.578	0.580
		Minimum	<1.0	5.1	4.86	0.0113	0.012	14.6	14.5	0.531	0.558
		Maximum	<1.0	5.27	5.35	0.0143	0.0135	15.6	16.3	0.619	0.606
		Standard deviation	0.00	0.07	0.21	0.0014	0.0006	0.5	0.9	0.045	0.020
		Geometric mean	0.50	5.17	5.05	0.0129	0.0126	15.0	15.2	0.577	0.580
		First quartile	0.5	5.13	4.94	0.012	0.0122	14.6	14.5	0.544	0.572
		Third quartile	0.5	5.2	5.13	0.014	0.0128	15.2	15.8	0.615	0.587
		90th Percentile	0.5	5.24	5.26	0.0142	0.0132	15.4	16.1	0.617	0.599
	March 2026	Average	0.50	5.06	5.05	0.0131	0.0130	15.6	15.7	0.601	0.609
		Minimum	<1.0	4.77	4.75	0.0117	0.0104	13.8	13.8	0.493	0.536
		Maximum	<1.0	5.46	5.36	0.0145	0.0153	16.7	17.1	0.721	0.689
		Standard deviation	0.00	0.23	0.21	0.0009	0.0013	1.0	1.2	0.082	0.056
		Geometric mean	0.50	5.05	5.04	0.0131	0.0130	15.6	15.6	0.596	0.607
		First quartile	0.5	4.91	4.84	0.0125	0.0128	15	15	0.54	0.569
		Third quartile	0.5	5.15	5.15	0.0137	0.0136	16.4	16.6	0.687	0.661
		90th Percentile	0.5	5.35	5.29	0.014	0.0141	16.6	16.9	0.7	0.685

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026													
Stn.Code	Date	Statistic	mg/L Mo-D	mg/L Mo-T	mg/L Na-D	mg/L Na-T	mg/L Ni-D	mg/L Ni-T	mg/L Pb-D	mg/L Pb-T	mg/L S-T	mg/L S-D	
RBPO	November 2025	Average	0.00100	0.00094	365.8	368	0.00100	0.00094	0.000200	0.000189	290.8	290.3	
River Barrier Pillar Outlet		Minimum	<0.0020	<0.0010	310	287	<0.0020	<0.0010	<0.00040	<0.00020	256	257	
		Maximum	<0.0020	<0.0020	401	425	<0.0020	<0.0020	<0.00040	<0.00040	329	306	
		Standard deviation	0.00000	0.00017	25.3	46	0.00000	0.00017	0.000000	0.000033	25.4	18.4	
		Geometric mean	0.00100	0.00093	365	365	0.00100	0.00093	0.000200	0.000185	289.8	289.8	
		First quartile	0.002	0.002	365	353	0.002	0.002	0.0004	0.0004	272	293	
		Third quartile	0.002	0.002	376	405	0.002	0.002	0.0004	0.0004	312	303	
		90th Percentile	0.001	0.001	381.8	421	0.001	0.001	0.0002	0.0002	317.8	305.2	
		December 2025	Average	0.00086	0.00079	369.9	359.1	0.00115	0.00107	0.000171	0.000157	273.1	275.2
			Minimum	<0.0010	<0.0010	348	330	<0.0010	<0.0010	<0.00020	<0.00020	246	251
	Maximum		<0.0020	<0.0020	419	403	0.002	0.0022	<0.00040	<0.00040	303	299	
	Standard deviation		0.00023	0.00025	17.8	24.7	0.00039	0.00049	0.000046	0.000051	16.7	14.4	
	Geometric mean		0.00082	0.00074	369.5	358.4	0.00110	0.00097	0.000164	0.000149	272.6	274.9	
	First quartile		0.001	0.001	359	339.8	0.002	0.002	0.0002	0.0002	258	266	
	Third quartile		0.002	0.002	378	379	0.002	0.002	0.0004	0.0004	289.2	288	
	90th Percentile		0.002	0.002	384	394.1	0.0019	0.0019	0.0004	0.0004	292	297	
	January 2026		Average	0.00055	0.00065	342.2	334.2	0.00145	0.00148	0.000110	0.000130	242.7	250.7
		Minimum	<0.0010	<0.0010	310	297	<0.0010	<0.0020	<0.00020	<0.00020	225	238	
		Maximum	<0.0020	<0.0020	375	359	0.0022	0.0021	<0.00040	<0.00040	260	264	
		Standard deviation	0.00016	0.00024	21.5	20.3	0.00049	0.00041	0.000032	0.000048	13.6	9.4	
		Geometric mean	0.00054	0.00062	341.6	333.6	0.00136	0.00143	0.000107	0.000123	242.4	250.5	
		First quartile	0.0005	0.0005	328.2	324.8	0.00125	0.0011	0.0001	0.0001	230.8	243.2	
		Third quartile	0.0005	0.00088	356	346.8	0.00158	0.00165	0.0001	0.000175	256.2	259.8	
		90th Percentile	0.00055	0.001	366.9	355.4	0.00211	0.0021	0.00011	0.0002	260	262.2	
		February 2026	Average	0.00050	0.00050	303.2	296.0	0.0024	0.0024	0.000100	0.000100	209.8	210.8
	Minimum		<0.0010	<0.0010	298	286	0.0019	0.0018	<0.00020	<0.00020	198	207	
	Maximum		<0.0010	<0.0010	311	303	0.0029	0.003	<0.00020	<0.00020	220	214	
	Standard deviation		0.00000	0.00000	6.0	8.4	0.0005	0.0006	0.000000	0.000000	9.0	3.0	
	Geometric mean		0.00050	0.00050	303.2	295.9	0.0024	0.0023	0.000100	0.000100	209.6	210.7	
	First quartile		0.0005	0.0005	298.8	290.5	0.002	0.0019	0.0001	0.0001	207	209.2	
	Third quartile		0.0005	0.0005	306.5	303	0.0028	0.0029	0.0001	0.0001	213.2	212.5	
	90th Percentile		0.0005	0.0005	309.2	303	0.0029	0.003	0.0001	0.0001	217.3	213.4	
	March 2026		Average	0.00050	0.00050	299.0	297.1	0.0026	0.0026	0.000100	0.000100	218.7	218.3
		Minimum	<0.0010	<0.0010	273	269	0.0018	0.0016	<0.00020	<0.00020	190	204	
		Maximum	<0.0010	<0.0010	322	322	0.0033	0.0036	<0.00020	<0.00020	242	229	
		Standard deviation	0.00000	0.00000	15.5	18.0	0.0006	0.0008	0.000000	0.000000	17.5	7.8	
		Geometric mean	0.00050	0.00050	298.6	296.6	0.0025	0.0025	0.000100	0.000100	218.0	218.2	
		First quartile	0.001	0.001	291	285	0.0021	0.002	0.0002	0.0002	214	218	
		Third quartile	0.001	0.001	308	309	0.0033	0.0034	0.0002	0.0002	230	224	
		90th Percentile	0.0005	0.0005	314	312.4	0.0033	0.0036	0.0001	0.0001	241.2	225.8	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026												
Stn.Code	Date	Statistic	mg/L Sb-D	mg/L Sb-T	mg/L Se-D	mg/L Se-T	mg/L Si-D	mg/L Si-T	mg/L Sn-D	mg/L Sn-T	mg/L Sr-D	mg/L Sr-T
RBPO	November 2025	Average	0.00050	0.000472	0.000100	0.000094	3.56	3.66	0.0050	0.00472	1.83	1.81
River Barrier Pillar Outlet		Minimum	<0.0010	<0.00050	<0.00020	<0.00010	2.8	2.8	<0.010	<0.0050	1.41	1.38
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.86	4	<0.010	<0.010	2.01	2.01
		Standard deviation	0.00000	0.000083	0.000000	0.000017	0.3	0.36	0.0000	0.00083	0.19	0.19
		Geometric mean	0.00050	0.000463	0.000100	0.000093	3.55	3.65	0.0050	0.00463	1.82	1.8
		First quartile	0.001	0.001	0.0002	0.0002	3.53	3.68	0.01	0.01	1.86	1.76
		Third quartile	0.001	0.001	0.0002	0.0002	3.68	3.86	0.01	0.01	1.92	1.93
		90th Percentile	0.0005	0.0005	0.0001	0.0001	3.76	3.91	0.005	0.005	1.99	1.95
	December 2025	Average	0.000429	0.000393	0.000086	0.000079	3.22	3.41	0.00429	0.00393	1.67	1.68
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.81	2.8	<0.0050	<0.0050	1.41	1.42
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.61	3.88	<0.010	<0.010	1.85	2.14
		Standard deviation	0.000116	0.000127	0.000023	0.000025	0.20	0.28	0.00116	0.00127	0.12	0.17
		Geometric mean	0.000410	0.000371	0.000082	0.000074	3.21	3.40	0.00410	0.00371	1.66	1.68
		First quartile	0.0005	0.0005	0.0001	0.0001	3.1	3.29	0.005	0.005	1.57	1.6
		Third quartile	0.001	0.001	0.0002	0.0002	3.36	3.6	0.01	0.01	1.75	1.75
		90th Percentile	0.001	0.001	0.0002	0.0002	3.42	3.76	0.01	0.01	1.81	1.83
	January 2026	Average	0.000275	0.000325	0.000055	0.000065	3.13	3.11	0.00275	0.00325	1.48	1.45
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	3	2.83	<0.0050	<0.0050	1.38	1.36
		Maximum	<0.0010	<0.0010	<0.00020	<0.00020	3.35	3.32	<0.010	<0.010	1.56	1.83
		Standard deviation	0.000079	0.000121	0.000016	0.000024	0.12	0.18	0.00079	0.00121	0.06	0.14
		Geometric mean	0.000268	0.000308	0.000054	0.000062	3.13	3.11	0.00268	0.00308	1.48	1.45
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.02	2.94	0.0025	0.0025	1.45	1.38
		Third quartile	0.00025	0.000438	5.00E-05	8.80E-05	3.2	3.23	0.0025	0.00438	1.54	1.45
		90th Percentile	0.000275	0.0005	5.50E-05	0.0001	3.23	3.3	0.00275	0.005	1.54	1.54
	February 2026	Average	0.000250	0.000250	0.000050	0.000050	3.13	3.08	0.00250	0.00250	1.36	1.35
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.84	3	<0.0050	<0.0050	1.28	1.28
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.4	3.23	<0.0050	<0.0050	1.5	1.44
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.23	0.10	0.00000	0.00000	0.10	0.07
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.12	3.08	0.00250	0.00250	1.35	1.35
		First quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.02	3.03	0.0025	0.0025	1.29	1.3
		Third quartile	0.00025	0.00025	5.00E-05	5.00E-05	3.25	3.09	0.0025	0.0025	1.4	1.4
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.34	3.18	0.0025	0.0025	1.46	1.42
	March 2026	Average	0.000250	0.000250	0.000050	0.000050	3.09	3.23	0.00250	0.00250	1.42	1.40
		Minimum	<0.00050	<0.00050	<0.00010	<0.00010	2.78	2.8	<0.0050	<0.0050	1.26	1.24
		Maximum	<0.00050	<0.00050	<0.00010	<0.00010	3.36	3.66	<0.0050	<0.0050	1.55	1.56
		Standard deviation	0.000000	0.000000	0.000000	0.000000	0.19	0.27	0.00000	0.00000	0.10	0.10
		Geometric mean	0.000250	0.000250	0.000050	0.000050	3.09	3.22	0.00250	0.00250	1.41	1.39
		First quartile	0.0005	0.0005	0.0001	0.0001	3	3.04	0.005	0.005	1.35	1.33
		Third quartile	0.0005	0.0005	0.0001	0.0001	3.22	3.38	0.005	0.005	1.47	1.48
		90th Percentile	0.00025	0.00025	5.00E-05	5.00E-05	3.31	3.56	0.0025	0.0025	1.53	1.5

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L Ti-D	mg/L Ti-T	mg/L TI-D	mg/L TI-T	mg/L U-D	mg/L U-T
RBPO River Barrier Pillar Outlet	November 2025	Average	0.0050	0.0056	0.0000113	0.0000111	0.000181	0.000176
		Minimum	<0.010	<0.010	<0.000020	<0.000020	<0.00020	<0.00020
		Maximum	<0.010	0.0102	0.000022	0.00002	0.00066	0.00063
		Standard deviation	0.0000	0.0017	0.000004	0.0000033	0.000188	0.000177
		Geometric mean	0.0050	0.0054	0.0000109	0.0000108	0.000138	0.000136
		First quartile	0.01	0.01	2.00E-05	2.00E-05	0.0002	0.0002
		Third quartile	0.01	0.01	2.00E-05	2.00E-05	0.0002	0.0002
		90th Percentile	0.005	0.006	1.24E-05	1.20E-05	0.000348	0.000326
		Average	0.00429	0.00421	0.0000086	0.0000079	0.000094	0.000100
	December 2025	Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.010	0.011	<0.000020	<0.000020	0.00017	0.00016
		Standard deviation	0.00116	0.00199	0.0000023	0.0000025	0.000027	0.000026
		Geometric mean	0.00410	0.00386	0.0000082	0.0000074	0.000090	0.000096
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0002	0.0002
		Third quartile	0.01	0.01	2.00E-05	2.00E-05	0.0002	0.0001
		90th Percentile	0.01	0.01	2.00E-05	2.00E-05	0.0002	0.00012
		Average	0.00275	0.00325	0.0000055	0.0000065	0.000073	0.000071
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
	January 2026	Maximum	<0.010	<0.010	<0.000020	<0.000020	0.00011	0.00011
		Standard deviation	0.00079	0.00121	0.0000016	0.0000024	0.000030	0.000027
		Geometric mean	0.00268	0.00308	0.0000054	0.0000062	0.000068	0.000067
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.00438	5.00E-06	8.80E-06	0.000108	0.0001
		90th Percentile	0.00275	0.005	5.50E-06	1.00E-05	0.00011	0.000101
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
	February 2026	Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
		Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Third quartile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05
		Average	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.000010	<0.000010	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.0000000	0.0000000	0.000000	0.000000
	March 2026	Geometric mean	0.00250	0.00250	0.0000050	0.0000050	0.000050	0.000050
		First quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		Third quartile	0.005	0.005	1.00E-05	1.00E-05	0.0001	0.0001
		90th Percentile	0.0025	0.0025	5.00E-06	5.00E-06	5.00E-05	5.00E-05

Attachment 1
River Barrier Pillar Passive Treatment System
Table 1

Monthly Statistics for November 2025 to March 31, 2026								
Stn.Code	Date	Statistic	mg/L V-D	mg/L V-T	mg/L Zn-D	mg/L Zn-T	mg/L Zr-D	mg/L Zr-T
RBPO	November 2025	Average	0.0050	0.00472	0.0050	0.00472	0.000100	0.000094
River Barrier Pillar Outlet		Minimum	<0.010	<0.0050	<0.010	<0.0050	<0.00020	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.0000	0.00083	0.0000	0.00083	0.000000	0.000017
		Geometric mean	0.0050	0.00463	0.0050	0.00463	0.000100	0.000093
		First quartile	0.01	0.01	0.01	0.01	0.0002	0.0002
		Third quartile	0.01	0.01	0.01	0.01	0.0002	0.0002
		90th Percentile	0.005	0.005	0.005	0.005	0.0001	0.0001
	December 2025	Average	0.00429	0.00393	0.00429	0.00393	0.000086	0.000079
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00116	0.00127	0.00116	0.00127	0.000023	0.000025
		Geometric mean	0.00410	0.00371	0.00410	0.00371	0.000082	0.000074
		First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001
		Third quartile	0.01	0.01	0.01	0.01	0.0002	0.0002
		90th Percentile	0.01	0.01	0.01	0.01	0.0002	0.0002
	January 2026	Average	0.00275	0.00325	0.00275	0.00325	0.000055	0.000065
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.010	<0.010	<0.010	<0.010	<0.00020	<0.00020
		Standard deviation	0.00079	0.00121	0.00079	0.00121	0.000016	0.000024
		Geometric mean	0.00268	0.00308	0.00268	0.00308	0.000054	0.000062
		First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05
		Third quartile	0.0025	0.00438	0.0025	0.00438	5.00E-05	8.80E-05
		90th Percentile	0.00275	0.005	0.00275	0.005	5.50E-05	0.0001
	February 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050
		Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010
		Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000
	Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050	
	First quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05	
	Third quartile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05	
	90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05	
March 2026	Average	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050	
	Minimum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	
	Maximum	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	
	Standard deviation	0.00000	0.00000	0.00000	0.00000	0.000000	0.000000	
	Geometric mean	0.00250	0.00250	0.00250	0.00250	0.000050	0.000050	
	First quartile	0.005	0.005	0.005	0.005	0.0001	0.0001	
	Third quartile	0.005	0.005	0.005	0.005	0.0001	0.0001	
	90th Percentile	0.0025	0.0025	0.0025	0.0025	5.00E-05	5.00E-05	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		12-Nov-2025	17-Nov-2025	20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C593649	C594570	C595855	C596150	C596303	C596303	C596303	C596758	C597033	C597430	C597673	C597939	C597939
Parameter	Unit													
Stn.Code														
Flow	m3/s	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Tot.				58387528	59730784	61137051	62553359	64413059	65575822	67171470	68322145	69893243	71245150	72209183
Wlevel	m													
Acidity83	mg/L	12	15.3	2.6	4.6	3.0	2.8	3.9	7.7	16.6	9.2			
Alk-T	mg/L	510	510	510	510	540	520	520	510		510			
DO-F	mg/L	-79.9		4.26	4.34	3.89	3.31	3.84	3.5	5.63	4.87	4.06	3.99	3.77
ORP-F	mV	4		-91.9	-100.4	-100.5	-99.6	-98.8	-93.9	-98.9	-97.4	-78.2	-71.3	37.8
pH-F	pH Units	6.78		6.88	6.89	6.89	6.86	6.87	6.97	7.09	7.02	6.98	6.95	6.96
Temp-F	C	9.184		9.35	9.27	9.147	8.198	9.09	8.97	8.839	9.001	8.711	9.017	8.61
Cond-F	uS/cm	2473.9		2502.9	2515	2526.8	2552	2554.2	2584	2485.1	2517.7	2514.3	2477.7	2482.7
Br-D	mg/L	0.025	0.026	0.024	0.026	0.026	0.027	0.026	0.026		0.026			
Cl-D	mg/L	13	12	12	12	13	12	13	12		12			
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0			
DOC	mg/L	0.87	0.89	0.76	0.81	1.0	0.92	0.91		1.5	0.98			
F-D	mg/L	0.09	0.069	0.053	0.076	0.078	0.075	0.075	0.08		<0.050			
H2S	mg/L	0.079		0.065										
Turb-F	NTU	2.17		3.56	1.15	0.69	1.41	1.14	1.52	3.47	4.15	6.09	5.16	9.83
TSS	mg/L	28	23	32	34	33	29	18	16	13	20	18	26	23
SO4-D	mg/L	750	750	820	860	820	780	780	850		810		770	750
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0074	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
As-D	mg/L	0.00376	0.00357	0.00383	0.00382	0.00382	0.00391	0.00384	0.00345	0.00381	0.00316	0.00284	0.0027	0.00279
As-T	mg/L	0.00389	0.00432	0.00347	0.00348	0.00359	0.00376	0.00350	0.00387	0.00369	0.00333	0.00294	0.00269	0.00267
Ba-D	mg/L	0.018	0.0186	0.0178	0.018	0.0185	0.0179	0.0181	0.0174	0.0193	0.018	0.0193	0.0194	0.0185
Ba-T	mg/L	0.0175	0.0197	0.0172	0.0168	0.0172	0.0173	0.0167	0.0189	0.0179	0.0189	0.0179	0.0175	0.0178
B-D	mg/L	1.05	1.13	0.94	0.99	1.07	1.05	1.07	1.18	0.99	0.91	1.11	1.03	1.03
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
B-T	mg/L	0.97	0.92	1.06	0.96	1.06	1.05	1.00	1.04	1.09	0.94	1.13	1	1.08
Ca-D	mg/L	185	187	188	174	197	191	193	178	187	168	171	184	184
Ca-T	mg/L	166	190	166	166	186	190	181	192	187	177	173	162	171
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Co-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00054	0.00044
Co-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.0005	0.00043
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.0015	0.0018	0.0015	0.0015	0.0014	0.0016	0.0015	0.0017	0.0018	0.0017	0.0012	0.0014	0.0014
Fe-D	mg/L	16.3	15.8	16	15.5	16.4	15.9	16.4	15.4	16.2	14.8	12.6	11.5	12.9
Fe-T	mg/L	14.2	16.2	15.1	14.6	15.7	16.2	15.6	16.6	16.8	15.6	13.3	11.3	12.8
Hard-D	mg/L	553	556	555	522	581	565	569	532	554	503	520	547	546
Hard-T	mg/L	494	563	499	494	549	562	534	569	560	523	531	494	519
K-D	mg/L	6.04	6.12	6.18	6.16	6.30	6.06	6.24	5.79	6.36	6.01	6.44	6.39	6.3
K-T	mg/L	5.59	6.12	5.66	5.66	5.79	6.02	5.76	6.25	6.32	6.1	5.96	5.79	5.88
Li-D	mg/L	0.0189	0.02	0.0164	0.0182	0.0204	0.0200	0.0200	0.0186	0.0177	0.0172	0.0179	0.0198	0.0186
Li-T	mg/L	0.0179	0.0186	0.0172	0.0177	0.0209	0.0200	0.0191	0.0189	0.0194	0.0178	0.0189	0.0182	0.0189
Mg-D	mg/L	21.7	21.6	21	21.2	21.6	21.3	21.2	21.4	21.3	20.1	22.7	21.5	20.9

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		12-Nov-2025	17-Nov-2025	20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025
Sample Clas:	M	M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#	C593649	C594570	C595855	C596150	C596303	C596303	C596303	C596303	C596758	C597033	C597430	C597673	C597939	C597939
Parameter	Unit													
	Stn.Code	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	19.5	21.4	20.6	19.6	20.5	21.2	19.8	21.9	22.7	19.7	23.8	21.7	22.2
Mn-D	mg/L	0.934	0.957	0.967	1	1.04	1.01	1.03	0.939	0.982	0.946	0.935	1.03	0.981
Mn-T	mg/L	0.933	1.02	0.901	0.912	0.975	1.00	0.972	0.991	1.01	0.95	0.908	0.87	0.897
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Na-D	mg/L	375	392	388	382	383	379	386	383	380	340	378	380	380
Na-T	mg/L	338	381	374	351	361	377	355	407	407	335	409	390	398
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
S-D	mg/L	289	301	284	301	315	306	308	287	312	287	292	300	288
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00023	0.00021	0.00023		<0.00020	<0.00020	0.00033	<0.00020	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L	3.88	3.84	3.62	3.89	4.28	4.03	4.14	3.94	4.07	3.28	3.7	3.85	3.78
Si-T	mg/L	3.56	3.86	3.6	3.57	4.08	4.04	3.91	3.94	3.78	3.48	3.75	3.3	3.49
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sr-D	mg/L	1.98	1.96	1.8	1.98	2.07	2.03	2.07	1.85	2.21	1.84	1.93	1.96	1.95
Sr-T	mg/L	1.83	2.24	1.83	1.81	1.93	2.00	1.91	2.03	1.85	1.92	1.89	1.77	1.78
S-T	mg/L	269	313	286	271	289	294	293	299	294	291	289	282	287
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Th-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Th-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.017
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.019
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		03-Dec-2025	04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C598701	C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303
Parameter	Unit													
Stn.Code		RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Flow	m3/s	0.031671	0.0308	0.032176	0.030030933	0.034510337	0.060566589	0.058989334	0.061828	0.063279	0.066749	0.071166	0.076718	0.064352
Tot.		73623067	74409929	74985017	75678251	76509335	77786369	79235676	80857637	82187225	83569929	86830547	88498130	90272799
Wlevel	m													
Acidity83	mg/L				8.4	7.8	7.2	10.8	5.2	24.3	22.4	7	15.6	38
Alk-T	mg/L				500	500	490	490	490	480	490	500	500	510
DO-F	mg/L	1.98	2.54	4.16	1.81	3.39	3.17	1.99	2	5.44	5.44	5.05	4.54	6.23
ORP-F	mV	75.2	149.1	155	172.8	117	70.2	75	82.1	145	127	118.8	119.4	139.6
pH-F	pH Units	6.7	6.96	6.75	6.69	6.73	6.72	6.7	6.69	6.81	6.76	6.76	6.72	6.77
Temp-F	C	9.072	9.08	9.043	8.845	9.06	9.165	8.988	9.189	9.095	9.139	9.488	9.651	9.101
Cond-F	uS/cm	2578.2	2577.9	2565.4	2549.7	2570.2	2540.9	2225.6	2230	2274.3	2270.5	2254.3	2236.6	2228.4
Br-D	mg/L				0.019	0.019	0.02	0.016	0.017	0.017	0.015	0.022	<0.10	0.02
Cl-D	mg/L				10	10	11	9.6	13	9.7	8.9	9.1	8.7	8.9
Carb	mg/L				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L						0.94						0.93	
F-D	mg/L				<0.050	0.063	0.059	0.06	0.063	0.066	0.065	0.068	0.067	<0.050
H2S	mg/L						0.057						0.1	
Turb-F	NTU	1.14	0.18	1.95		5.95	4.05	21.91	7.46	6.19	3.87	9.84	6.73	16.2
TSS	mg/L	17	20		15	20	21	22	15	20	19	20	18	8
SO4-D	mg/L	760	780		740	740	750	750	750	710	750	750	760	740
Ag-D	mg/L	<0.000040	<0.000040	<0.000020	<0.000040		<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000020	<0.000040	<0.000040	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0030	<0.0060		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	<0.0060	<0.0060	<0.0060	<0.0030	0.0123	0.0052	0.0099	<0.0060	<0.0060	<0.0030	<0.0060	<0.0060	0.0067
As-D	mg/L	0.00274	0.00251	0.00242	0.00219		0.00198	0.00223	0.00218	0.00211	0.00203	0.002	0.00224	0.00196
As-T	mg/L	0.00267	0.00234	0.00235	0.00217	0.00216	0.00234	0.00219	0.00232	0.00207	0.00196	0.00212	0.00229	0.00202
Ba-D	mg/L	0.0198	0.0189	0.0179	0.0175		0.0172	0.0177	0.0182	0.0174	0.0165	0.0169	0.0178	0.0164
Ba-T	mg/L	0.0185	0.0165	0.0176	0.0156	0.0164	0.0175	0.0168	0.0186	0.0172	0.0165	0.0168	0.0171	0.0157
B-D	mg/L	1.42	1.18	1.12	1.01		1.03	1.12	1	1.12	0.99	1.1	1.16	1.04
Be-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
B-T	mg/L	1.24	1.02	1.02	0.911	0.94	0.99	1.07	1.06	1.44	0.830	1	1.16	1
Ca-D	mg/L	193	180	162	172		171	177	176	166	167	165	173	155
Ca-T	mg/L	174	157	169	154	160	170	163	185	161	160	160	168	149
Cd-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	0.00002	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020
Co-D	mg/L	0.00067	0.00082	0.00079	0.00088		0.00081	0.00081	0.00088	0.00079	0.00081	0.00082	0.00087	0.00102
Co-T	mg/L	0.00064	0.00069	0.00077	0.0007	0.00075	0.00077	0.00076	0.00087	0.00077	0.00073	0.00079	0.00085	0.00097
Cr-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00040		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.0013	0.0017	0.0015	0.00174	0.00163	0.00172	0.0022	0.002	0.0022	0.00127	0.0021	0.0021	0.0023
Fe-D	mg/L	12.7	11.2	9.1	10.1		10.1	9.58	8.34	8.74	8.55	8.32	8.47	7.05
Fe-T	mg/L	11.7	9.57	9.92	8.82	9.09	9.67	9.11	8.78	8.78	7.50	7.85	8.19	6.71
Hard-D	mg/L	583	550	492	516		513	531	521	507	509	495	516	465
Hard-T	mg/L	527	472	512	458	476	505	486	546	489	467	478	500	445
K-D	mg/L	6.92	6.71	5.96	6.18		6.11	6.02	5.83	6.05	6.14	6.09	6.13	5.94
K-T	mg/L	6.34	5.64	6.14	5.45	5.7	6.05	5.6	6.04	5.92	5.57	5.74	5.95	5.49
Li-D	mg/L	0.0207	0.0185	0.0172	0.0168		0.0163	0.0171	0.0154	0.0163	0.0149	0.0164	0.0168	0.0153
Li-T	mg/L	0.0190	0.0160	0.0163	0.0159	0.0158	0.0169	0.0157	0.0155	0.0171	0.0128	0.0151	0.0165	0.0155
Mg-D	mg/L	24.6	24.2	21.1	21.3		20.9	21.7	19.8	22.4	22.4	20.5	20.6	19.1

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		03-Dec-2025	04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C598701	C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303
Parameter	Unit													
	Stn.Code	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	22.8	19.7	21.5	18	18.6	19.5	19.5	20.5	21.1	16.6	19	19.6	17.5
Mn-D	mg/L	1.02	0.980	0.9	0.991		0.98	0.92	0.906	0.885	0.875	0.862	0.884	0.843
Mn-T	mg/L	0.945	0.843	0.881	0.852	0.889	0.935	0.848	0.932	0.841	0.811	0.836	0.844	0.804
Mo-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Na-D	mg/L	437	422	388	387		384	395	373	378	416	379	385	366
Na-T	mg/L	399	362	401	327	341	354	366	383	386	319	369	372	336
Ni-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00040		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.00050	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010
S-D	mg/L	325	324	308	285		280	297	289	290	303	284	286	272
Se-D	mg/L	0.00053	<0.00020	0.00094	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
Si-D	mg/L	4.00	3.66	3.23	3.32		3.3	3.53	3.49	3.28	3.62	3.34	3.45	3.2
Si-T	mg/L	3.69	3.30	3.47	3.38	3.48	3.74	3.31	3.6	3.45	3.31	3.17	3.34	3.21
Sn-D	mg/L	<0.010	<0.010	<0.0050	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010
Sr-D	mg/L	2.06	1.96	1.85	1.75		1.71	1.77	1.95	1.77	1.77	1.76	1.81	1.67
Sr-T	mg/L	1.86	1.71	1.8	1.66	1.71	1.85	1.72	2.04	1.84	1.89	1.67	1.72	1.61
S-T	mg/L	302	271	287	261	269	288	273	283	289	280	273	279	250
Ti-D	mg/L	<0.010	<0.010	<0.0050	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
V-D	mg/L	<0.010	<0.010	<0.0050	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010
Zn-D	mg/L	<0.010	<0.010	0.0096	0.016		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	0.018	<0.010	<0.010	0.0071	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	05-Jan-2026	06-Jan-2026	07-Jan-2026
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C5A1649	C5A1980	C5A2125	C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600460	C600476	C600777	C600995
Parameter	Unit													
Stn.Code														
Flow	m3/s	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
		0.069273	0.066245	0.064478	0.0675065	0.066623247	0.066560157	0.06309	0.062964016	0.062711655		0.0587	0.055393192	0.062648565
Tot.		91597152	92997570	94707035	99295263	773680	2164190	8301554		12581930		19375162	20670588	22172750
Wlevel	m											231	230.7	230.2
Acidity83	mg/L	17.8	39.1	13.3	5.6	14.8	1.7	4.4	<1.0	3.8	3.4	7	10.1	12.1
Alk-T	mg/L	490	500	480	490	480	470	470	470	470	480	480	480	490
DO-F	mg/L	6.57	5.75	5.58	6.59	7.91	6.94	6.9	7.42	2.39		1.86	1.36	3.69
ORP-F	mV	122.7	141.5	141.8	180.7	193.8	185	215	212.9	207.9		222	205.9	204
pH-F	pH Units	6.75	6.72	6.74	6.73	6.81	6.76	6.74	6.79	6.74		6.47	6.68	6.78
Temp-F	C	9.02	8.67	8.148	8.193	9.108	8.35	8.496	9.162	9.249		9.28	8.927	7.242
Cond-F	uS/cm	2218.6	2164.4	2133.5	2093.7	2107.5	2087	2060.1	2064.2	2307		2319.5	2337.4	2309
Br-D	mg/L	0.019	0.017	0.018	0.013	0.013	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	<0.010
Cl-D	mg/L	8.1	7.9	8.1	7.2	7.4	7.1	6.2	6	5.8	6.4	6.7	6.4	5.9
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L				1.2	1	1.1	1.2	0.78	0.83	0.73	1		
F-D	mg/L	0.061	0.052	<0.050	<0.050	0.069	<0.050	0.068	0.066	<0.050	0.054	0.072	0.063	0.083
H2S	mg/L								0.049			0.082		
Turb-F	NTU	19.22	11.56	21.05	20.85	23.14	21.63	23.89	20.43	9.08		4.36	7.05	4.04
TSS	mg/L	13	11	11	10	12	11	5.6	6.8	10	6.8	6	4.8	6.4
SO4-D	mg/L	700	690	690	710	720	690	660	670	660	660	640	670	650
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000050	<0.000020	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000050	<0.000020	<0.000020
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0060	<0.0060	0.00085	<0.0030	<0.0060
Al-T	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	0.0038	<0.0030	0.0034	0.003	<0.0060	0.0032	0.00491	<0.0030	<0.0030
As-D	mg/L	0.00195	0.00206	0.00216	0.00203	0.002	0.00195	0.00199	0.00195	0.00197	0.00211	0.00196	0.00204	0.00185
As-T	mg/L	0.00225	0.0022	0.00209	0.00215	0.00215	0.00212	0.00195	0.002	0.00209	0.00227	0.00205	0.00187	0.0019
Ba-D	mg/L	0.0163	0.0168	0.0178	0.0168	0.0161	0.0169	0.0169	0.0167	0.017	0.0164	0.0161	0.0167	0.0161
Ba-T	mg/L	0.0169	0.0175	0.0163	0.0169	0.016	0.0165	0.0155	0.0161	0.0169	0.0186	0.0165	0.0153	0.0157
B-D	mg/L	0.91	1	1.18	1.17	0.89	1.09	1.15	1.22	1.08	1.03	1.14	1.14	1.29
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.000010	<0.00010	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.000010	<0.00010	<0.00010
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0000050	<0.0010	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0000050	<0.0010	<0.0010
B-T	mg/L	0.93	1.07	1.22	1.46	1.08	1.01	1.00	1.07	0.97	0.931	1.06	0.942	1.1
Ca-D	mg/L	160	159	159	162	149	163	153	157	149	150	142	144	157
Ca-T	mg/L	162	158	154	164	151	149	137	142	155	156	142	129	135
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000050	<0.000010	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000050	<0.000010	<0.000010
Co-D	mg/L	0.00117	0.00107	0.00108	0.00122	0.00125	0.0013	0.00155	0.00144	0.00153	0.0014	0.00129	0.00129	0.00121
Co-T	mg/L	0.00101	0.00109	0.00098	0.00111	0.00113	0.00128	0.00144	0.00143	0.00152	0.00134	0.00131	0.00119	0.00118
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.00010	<0.0010	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.00010	<0.0010	<0.0010
Cu-D	mg/L	0.00113	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	0.00025	<0.00020	<0.00040	<0.00040	0.000166	0.00035	<0.00040
Cu-T	mg/L	0.0028	0.0026	0.0019	0.0019	0.00217	0.00166	0.00169	0.00161	0.0019	0.00164	0.00117	0.0016	0.00154
Fe-D	mg/L	7.13	7.19	7.03	5.87	5.65	5.92	4.51	4.71	4.68	4.54	4.59	4.79	4.82
Fe-T	mg/L	7.06	7.24	6.88	6	5.83	5.52	4.14	4.41	4.84	4.46	4.76	4.4	4.39
Hard-D	mg/L	479	480	483	485	443	494	467	476	444	443	434	432	465
Hard-T	mg/L	479	483	469	490	462	452	413	432	460	460	433	389	403
K-D	mg/L	5.8	5.89	5.94	5.92	5.95	5.87	5.76	5.6	5.89	5.65	5.65	5.65	5.65
K-T	mg/L	6.23	6.13	5.93	5.84	5.84	6.01	5.37	5.59	5.81	6.05	5.59	5.26	5.3
Li-D	mg/L	0.0126	0.0145	0.016	0.0148	0.0135	0.0131	0.0127	0.0128	0.0138	0.0138	0.014	0.0135	0.0136
Li-T	mg/L	0.0145	0.0147	0.0151	0.0158	0.014	0.0132	0.0123	0.0128	0.0142	0.0136	0.0134	0.0123	0.0126
Mg-D	mg/L	19.4	19.8	20.8	19.8	17.6	21	20.7	20.4	17.8	16.7	19.2	17.6	17.8

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	05-Jan-2026	06-Jan-2026	07-Jan-2026
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C5A1649	C5A1980	C5A2125	C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600460	C600476	C600777	C600995
Parameter	Unit													
	Stn.Code	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	18.1	21.3	20.4	19.7	20.9	19.4	17.5	19	18	16.9	18.8	16	16.1
Mn-D	mg/L	0.883	0.826	0.835	0.756	0.765	0.741	0.732	0.715	0.756	0.745	0.728	0.714	0.665
Mn-T	mg/L	0.883	0.858	0.744	0.731	0.747	0.745	0.676	0.703	0.765	0.775	0.727	0.658	0.633
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	0.000226	<0.0010	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	0.00021	<0.0010	<0.0010
Na-D	mg/L	383	370	391	384	356	398	394	389	367	341	412	377	375
Na-T	mg/L	357	398	397	378	385	373	337	365	347	351	386	337	339
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.002	0.0023	0.0021	0.0023	<0.0020	0.00174	0.0018	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0017	0.002	0.0021	0.0021	0.0023	0.0019	0.00186	0.0016	0.0016
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.0000050	<0.00020	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	0.0000083	<0.00020	<0.00020
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.000020	<0.00050	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.000020	<0.00050	<0.00050
S-D	mg/L	263	283	274	278	256	274	264	258	263	257	260	260	254
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0008	<0.00010	<0.00010	<0.00020	<0.00020	0.00104	0.00115	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	0.00184	<0.00010	<0.00010
Si-D	mg/L	3.03	3.35	3.62	3.32	2.91	3.66	3.11	3.18	3.23	3.16	3.09	3.14	3.42
Si-T	mg/L	3.4	3.41	3.33	3.42	3.36	3.33	2.89	3.09	3.15	3.45	3.09	2.77	2.91
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.00020	<0.0050	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020	<0.0050	<0.0050
Sr-D	mg/L	1.55	1.7	1.79	1.67	1.49	1.61	1.59	1.59	1.51	1.55	1.55	1.52	1.46
Sr-T	mg/L	1.89	1.76	1.6	1.71	1.59	1.61	1.42	1.48	1.58	1.85	1.47	1.36	1.39
S-T	mg/L	277	289	260	273	281	275	250	259	258	265	253	241	243
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.00050	<0.0050	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00050	<0.0050	<0.0050
Tl-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	0.0000028	<0.000010	<0.000020
Tl-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	0.0000055	<0.000010	<0.000010
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	0.0000763	<0.00010	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	0.0000747	<0.00010	<0.00010
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.00020	<0.0050	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.00020	<0.0050	<0.0050
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.0054	0.0052	<0.0050	<0.010	<0.010	0.00388	<0.0050	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	0.00338	<0.0050	<0.0050
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		08-Jan-2026	09-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C601338	C601711	C603048	C603048	C603622	C603886		C604394	C605538	C605822	C606988	C607575	C609693
Parameter	Unit													
Stn.Code														
Flow	m3/s	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
		0.060188047		0.036718494	0.038358839	0.065045992	0.0617	0.066433977	0.062900926	0.05981	0.06782	0.06567	0.0669735	0.02649
Tot.		23735038		25734563	27494296	28739687	33441987	31977867	37852399	41894063	50559094	52603891	58873014	60990049
Wlevel	m	229.8		237.8		238.3	238.2	238.1	237.3	236.3	236.7	237.2	237.4	241.6
Acidity83	mg/L	34.3	14.7	14.9	18.4	9.2								8.5
Alk-T	mg/L	490	470	490	480	480	470		460		470		460	470
DO-F	mg/L	3.7	1.4	0.98	0.65	0.86	2.62	3.51	8	1.75	1.33	1.8	2.56	3.02
ORP-F	mV	64.7	131.4	-45.4	-26.7	1.1	202.3	196.5	226.9	194.6	192.9	176.9		-15.7
pH-F	pH Units	6.77	6.64	6.8	6.61	6.66	6.62	6.84	6.82	6.67	6.66	6.68	6.71	6.75
Temp-F	C	8.913	9.193	7.833	7.831	7.623	8.891	7.027	8.93	9.482	9.5	9.396	9.438	9.46
Cond-F	uS/cm	2304	2289	2227.4	2233.1	1891	1949.4	1831.2	1790.6	1885	1785.2	1841.6	1777.3	1861.4
Br-D	mg/L	0.014	0.013	0.013	0.012	<0.010	<0.010		<0.010		0.011		<0.010	<0.010
Cl-D	mg/L	5.4	6.9	5.8	5.8	5.4	5.8		5.1		4.6		4.3	4.2
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0		<1.0	<1.0
DOC	mg/L			0.94	0.9				0.92		1.1		1.1	0.94
F-D	mg/L	<0.050	0.25	0.064	0.051	0.075	0.06		0.076		0.067		0.067	0.08
H2S	mg/L				0.096				0.06		0.072		0.058	0.065
Turb-F	NTU	5.76	-0.59	36.89	14.43	19.87	1.82	2.12	-4.04	2.56	4.04	5.1	-3.52	1.25
TSS	mg/L	2.4	6.0	4.8	4.8	4	5.6		3.2					7.2
SO4-D	mg/L	610	640	650	640	690	660		620		570		570	530
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	<0.0030	0.0032	0.0084	0.0047	<0.0030	<0.0060		0.0033	0.0031	<0.0030	<0.0030	<0.0030	<0.0030
As-D	mg/L	0.00202	0.00207	0.00211	0.002	0.00205	0.00196		0.002	0.00195	0.00185	0.00199	0.00204	0.00194
As-T	mg/L	0.00188	0.00187	0.00205	0.00197	0.00191	0.00195		0.00189	0.00178	0.00178	0.00197	0.00197	0.00182
Ba-D	mg/L	0.0168	0.0169	0.0168	0.0167	0.0169	0.0169		0.0196	0.02	0.0198	0.0193	0.0194	0.019
Ba-T	mg/L	0.015	0.0150	0.0167	0.0171	0.0159	0.0166		0.0185	0.0186	0.0184	0.0193	0.0199	0.0171
B-D	mg/L	0.889	0.869	1.21	0.961	1.02	1.07		0.929	1.02	0.874	1.05	0.949	0.809
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L	0.821	0.960	1	0.826	0.886	0.98		0.878	0.841	0.811	0.903	0.884	0.841
Ca-D	mg/L	146	144	140	136	143	138		141	135	134	127	138	137
Ca-T	mg/L	132	123	140	142	140	150		127	134	131	123	130	127
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L	0.00122	0.00132	0.00103	0.00123	0.00118	0.00107		0.0018	0.00203	0.00212	0.00229	0.00236	0.00137
Co-T	mg/L	0.00125	0.00136	0.00109	0.00118	0.00117	0.00118		0.00175	0.0018	0.00202	0.00239	0.00223	0.00132
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.0002	<0.00020		0.00023	<0.00020	0.00023	0.00021	0.00021	<0.00020
Cu-T	mg/L	0.00113	0.00157	0.0016	0.00138	0.00278	0.0016		0.00156	0.00165	0.00186	0.00183	0.0015	0.00156
Fe-D	mg/L	4.60	4.27	5.23	4.39	3.99	4.67		3.29	3.22	2.92	2.33	2.59	4.65
Fe-T	mg/L	4.17	3.87	5.14	4.37	4.05	4.96		3.23	2.98	2.79	2.32	2.51	4.54
Hard-D	mg/L	437	431	420	409	426	418		418	399	392	379	407	405
Hard-T	mg/L	390	367	416	422	414	446		382	395	390	372	388	378
K-D	mg/L	5.74	5.77	5.51	5.41	5.7	5.59		5.54	5.27	5.05	5.1	5.23	5.2
K-T	mg/L	5	4.99	5.63	5.76	5.51	5.6		5.03	5.18	5.17	5.01	5.25	5.03
Li-D	mg/L	0.0115	0.0115	0.0146	0.0135	0.0155	0.0135		0.0147	0.0126	0.0115	0.0142	0.0136	0.0111
Li-T	mg/L	0.0117	0.0143	0.0142	0.0115	0.0119	0.0139		0.0131	0.011	0.0105	0.0122	0.0128	0.0118
Mg-D	mg/L	17.4	17.3	17	16.8	16.9	17.8		16.1	15.1	14	15.2	15.3	15.1

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date		08-Jan-2026	09-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026
Sample Clas:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C601338	C601711	C603048	C603048	C603622	C603886		C604394	C605538	C605822	C606988	C607575	C609693
Parameter	Unit													
	Stn.Code	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	14.5	14.6	16	16.3	15.4	17.4		15.8	14.9	14.9	15.9	15	14.7
Mn-D	mg/L	0.691	0.690	0.697	0.728	0.737	0.705		0.746	0.699	0.701	0.63	0.674	0.631
Mn-T	mg/L	0.693	0.686	0.707	0.731	0.697	0.734		0.676	0.663	0.634	0.62	0.665	0.635
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L	365	365	348	336	330	367		318	334	287	314	307	320
Na-T	mg/L	311	320	337	341	326	360		307	309	313	306	295	299
Ni-D	mg/L	0.0017	0.0018	0.0014	0.0016	0.0016	0.0015		0.0024	0.0026	0.0028	0.0033	0.0031	0.0017
Ni-T	mg/L	0.0017	0.0018	<0.0020	0.0016	0.0015	<0.0020		0.0024	0.0024	0.0026	0.0034	0.0031	0.0017
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.0010		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L	283	275	252	248	249	248	252	244	235	203	215	215	210
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00113		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.27	3.23	3.29	3	3.34	3.01	3.29	3.23	3.07	3.21	3.03	3.27	3.01
Si-T	mg/L	2.89	2.54	3.19	3.22	2.84	3.24	3.29	2.76	3.23	3.16	2.98	3.09	2.94
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.55	1.58	1.53	1.45	1.67	1.47	1.53	1.6	1.39	1.39	1.32	1.41	1.37
Sr-T	mg/L	1.36	1.26	1.47	1.53	1.4	1.44	1.47	1.35	1.4	1.28	1.24	1.42	1.29
S-T	mg/L	224	216	236	260	237	269	224	222	223	207	212	214	203
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TI-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
TI-T	mg/L	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	0.0058	<0.0050	<0.0050		<0.0050	<0.0050	0.0067	0.0054	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	0.0057	0.023	0.0051	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1		23-Feb-2026	25-Feb-2026	02-Mar-2026	04-Mar-2026
Date	Sample Class	M	M	M	M
	udf_LabRpt#	C610095	C610796	C611546	C612204
Parameter	Unit				
	Strn.Code	RBP1	RBP1	RBP1	RBP1
Flow	m3/s	0.0434	0.06435	0.03514	0.03407
Tot.		64988272	67809890	71775277	73359602
Wlevel	m	241.2	241	242.6	
Acidity83	mg/L				
Alk-T	mg/L	470		470	
DO-F	mg/L	3.45	5.32	4.61	3.77
ORP-F	mV	-24.6	-0.09	6.5	21.7
pH-F	pH Units	6.8	6.64	6.68	6.66
Temp-F	C	9.334	9.34	9.233	9.42
Cond-F	uS/cm	1850.6	1926.2	1964.3	2062.9
Br-D	mg/L	0.02		0.011	
Cl-D	mg/L	4.7		3.7	
Carb	mg/L	<1.0		<1.0	
DOC	mg/L			<0.50	
F-D	mg/L	0.097		0.07	
H2S	mg/L			0.075	
Turb-F	NTU	-1.45	0.2	3.21	1.66
TSS	mg/L			4	
SO4-D	mg/L	550	600	540	550
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030
As-D	mg/L	0.00199	0.00202	0.00181	0.00186
As-T	mg/L	0.00188	0.00207	0.00182	0.0018
Ba-D	mg/L	0.0187	0.0183	0.0185	0.0176
Ba-T	mg/L	0.0196	0.0189	0.0187	0.0186
B-D	mg/L	0.842	0.803	0.926	0.809
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L	0.864	0.833	0.924	0.988
Ca-D	mg/L	131	142	139	138
Ca-T	mg/L	137	131	139	136
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L	0.00172	0.0017	0.00178	0.00196
Co-T	mg/L	0.00171	0.00172	0.00181	0.00193
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	0.00021	<0.00020	0.00055
Cu-T	mg/L	0.00167	0.00162	0.00137	0.00149
Fe-D	mg/L	2.99	3.4	3.1	2.72
Fe-T	mg/L	3.07	3.12	3.08	2.78
Hard-D	mg/L	389	415	409	407
Hard-T	mg/L	404	386	409	403
K-D	mg/L	5.06	5.01	5.22	5.14
K-T	mg/L	5.15	5.06	5.12	5.12
Li-D	mg/L	0.0116	0.0109	0.0135	0.0112
Li-T	mg/L	0.0118	0.0116	0.0136	0.0127
Mg-D	mg/L	15.3	14.9	14.9	15.1

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1		23-Feb-2026	25-Feb-2026	02-Mar-2026	04-Mar-2026
Date	Sample Class	M	M	M	M
	udf_LabRpt#	C610095	C610796	C611546	C612204
Parameter	Unit				
	Strn.Code	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	15.2	14.6	15.1	15.3
Mn-D	mg/L	0.679	0.637	0.669	0.647
Mn-T	mg/L	0.673	0.66	0.676	0.688
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L	310	297	293	308
Na-T	mg/L	306	295	299	295
Ni-D	mg/L	0.0023	0.0022	0.0025	0.0027
Ni-T	mg/L	0.0022	0.0024	0.0025	0.0026
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L	219	201	219	221
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.17	2.98	3.13	2.76
Si-T	mg/L	3.23	3.07	3.03	3.22
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.42	1.29	1.39	1.33
Sr-T	mg/L	1.4	1.42	1.42	1.42
S-T	mg/L	221	203	219	212
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.0052	<0.0050	<0.0050	0.0104
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	0.009
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1									
Date	Sample Classification	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
	Unit	M	M	M	M	M	M	M	M
	Lab Rpt#	C613064	C613668	C614547	C615091		C615992	C616212	C617372
Parameter	Unit								
	Stn.Code								
Flow	m3/s	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
		0.03394	0.03584	0.06397	0.06492	0.06492	0.067822		0.063658
Tot.		79608520	78990825	86102630	88914219	90787485	96964000		7078371
Wlevel	m		243.4	241.7		241.6	242.1	241.9	241.2
Acidity83	mg/L	19.9		5.2			18.7		27.7
Alk-T	mg/L	470		470			470		460
DO-F	mg/L	1.82	2.61	2.38	3.28	3.53	5.67	4.25	5.32
ORP-F	mV	-9.5	-20.5	15.8	5.8	23.7	46.4	-24.9	13.8
pH-F	pH Units	6.65	6.65	6.53	6.68	6.72	6.58	6.69	6.77
Temp-F	C	9.345	9.27	9.408	9.6	9.493	9.375	9.363	9.154
Cond-F	uS/cm	1844.6	1925.9	1856.4	1862.1	1876.3	1835	1753	1781
Br-D	mg/L	<0.010		0.011			<0.010		0.012
Cl-D	mg/L	4.9		4.6			4.6		4.5
Carb	mg/L	<1.0		<1.0			<1.0		<1.0
DOC	mg/L	1		0.97			0.81		0.83
F-D	mg/L	0.057		0.073			0.053		0.063
H2S	mg/L	0.069		0.078			0.054		0.057
Turb-F	NTU	1.43	8.19	-3.61	1.18	-1.22	8.61	-2.77	1.33
TSS	mg/L				6.1		4.8		4.8
SO4-D	mg/L	580	600	600	650		610	610	600
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0222	0.0084	<0.0030	<0.0030		0.0049	<0.0030	0.0031
As-D	mg/L	0.00189	0.00187	0.00191	0.00207		0.002	0.00194	0.00195
As-T	mg/L	0.00175	0.00179	0.00193	0.00198		0.00208	0.00204	0.00206
Ba-D	mg/L	0.0194	0.0195	0.0191	0.018		0.0191	0.0188	0.019
Ba-T	mg/L	0.0261	0.019	0.0184	0.0189		0.0198	0.0194	0.0188
B-D	mg/L	0.991	0.891	0.886	1.2		1.03	0.944	0.924
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L	0.863	0.878	0.831	1.14		0.868	1.01	0.871
Ca-D	mg/L	129	141	138	128		137	141	150
Ca-T	mg/L	129	140	139	128		146	144	147
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	0.000012
Co-D	mg/L	0.002	0.00187	0.00213	0.00239		0.00276	0.00275	0.00293
Co-T	mg/L	0.00176	0.00182	0.00196	0.00236		0.00292	0.0029	0.00296
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L	0.00023	0.00022	<0.00020	0.00031		0.00118	0.00026	<0.00020
Cu-T	mg/L	0.00137	0.00145	0.00157	0.00196		0.00204	0.00211	0.00218
Fe-D	mg/L	3.19	3.09	3.22	3.09		2.73	2.88	2.94
Fe-T	mg/L	2.87	3.09	3.02	3.23		2.74	2.98	2.99
Hard-D	mg/L	379	416	407	381		411	415	443
Hard-T	mg/L	379	414	410	387		435	428	437
K-D	mg/L	5.03	5.19	4.94	4.59		4.96	4.62	5.14
K-T	mg/L	4.79	5.33	4.85	4.85		5.19	5.14	5.16
Li-D	mg/L	0.013	0.0121	0.0124	0.0109		0.013	0.0128	0.0134
Li-T	mg/L	0.0124	0.0127	0.0104	0.0126		0.0116	0.0139	0.0125
Mg-D	mg/L	14	15.4	15	14.6		17.1	15.1	16.3

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1									
Date	Sample Classification	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
	udf_LabRptId	M C613064	M C613668	M C614547	M C615091	M	M C615992	M C616212	M C617372
Parameter	Unit								
Stn.Code		RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1	RBP1
Mg-T	mg/L	13.8	15.8	15.1	16		17.1	16.8	16.7
Mn-D	mg/L	0.724	0.72	0.689	0.715		0.747	0.729	0.761
Mn-T	mg/L	0.656	0.692	0.683	0.703		0.752	0.783	0.766
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Na-D	mg/L	286	321	297	289		301	289	298
Na-T	mg/L	273	310	304	308		315	306	314
Ni-D	mg/L	0.0027	0.0025	0.0026	0.0033		0.0042	0.0036	0.0036
Ni-T	mg/L	0.0024	0.0025	0.0025	0.0032		0.0039	0.0038	0.0038
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
S-D	mg/L	217	226	224	201		223	205	226
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.94	3.17	3.27	2.49		3.09	2.9	3.19
Si-T	mg/L	3.04	3.21	3.06	2.97		3.32	3.61	3.26
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.42	1.54	1.54	1.22		1.43	1.49	1.54
Sr-T	mg/L	1.32	1.47	1.53	1.33		1.54	1.51	1.6
S-T	mg/L	204	233	218	214		238	240	241
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	0.0052	0.0061	<0.0050		<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Zr-T	mg/L	0.00315	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date														
Sample Clas: udf_LabRptf														
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile	10th Percentile	50th Percentile	90th Percentile	95th Percentile
Stn.Code														
Flow	m3/s	58	0.056656640	0.054649525	0.02649	0.076718	0	0.05077625	0.0631845	0.0655	0.0334108	0.0631845	0.0671334	0.06803965
Tot.		58	60517148	48073816	773680	99295263	0	38862815	68066017	79515309	20281960	68066017	90427204	93253989
Wlevel	m	23	238.1	238.1	229.8	243.4	0	236.9	238.2	241.6	230.8	238.2	242.1	242.5
Acidity83	mg/L	43	12.33	9.12	<1.0	39.1	1	5.2	9.2	16.1	3.08	9.2	23.92	33.64
Alk-T	mg/L	48	487.3	487.0	460	540	0	470	485	500	470	485	510	516.5
DO-F	mg/L	62	2.49	3.35	-79.9	8	0	2.38	3.7	5.25	1.44	3.7	6.54	6.94
ORP-F	mV	61	69.57	81.22	-100.5	226.9	0	-15.7	75	172.8	-93.9	75	204	212.9
pH-F	pH Units	62	6.76	6.76	6.47	7.09	0	6.68	6.74	6.81	6.64	6.74	6.94	6.97
Temp-F	C	62	8.968	8.950	7.027	9.651	0	8.896	9.105	9.338	8.194	9.105	9.458	9.493
Cond-F	uS/cm	62	2188.6	2171.3	1753	2584	0	1899.7	2227.9	2481.4	1835.7	2227.9	2551.8	2570
Br-D	mg/L	48	0.0176	0.0155	<0.010	<0.10	15	0.01	0.0135	0.02	0.01	0.0135	0.026	0.026
Cl-D	mg/L	48	7.9	7.4	3.7	13	0	5.7	7.2	10	4.6	7.2	12	13
Carb	mg/L	48	1.00	1.00	<1.0	<1.0	48	1	1	1	1	1	1	1
DOC	mg/L	31	0.944	0.928	<0.50	1.5	1	0.85	0.93	1	0.78	0.93	1.1	1.2
F-D	mg/L	48	0.0687	0.0657	<0.050	0.25	8	0.0537	0.0655	0.0735	0.05	0.0655	0.08	0.0875
H2S	mg/L	16	0.070	0.068	0.049	0.1	0	0.058	0.067	0.078	0.056	0.067	0.089	0.097
Turb-F	NTU	61	6.80	4.50	-4.04	36.89	0	1.33	4.04	9.08	-0.59	4.04	20.85	21.91
TSS	mg/L	50	14.0	11.3	2.4	34	0	6	12.5	20	4.8	12.5	26.2	30.6
SO4-D	mg/L	57	687	682	530	860	0	620	690	750	576	690	780	820
Ag-D	mg/L	61	0.00003025	0.00002812	<0.0000050	<0.000040	61	2.00E-05	4.00E-05	4.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05
Ag-T	mg/L	62	0.00002911	0.00002705	<0.0000050	<0.000040	62	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	4.00E-05	4.00E-05
Al-D	mg/L	61	0.00454	0.00423	0.00085	<0.0060	60	0.003	0.006	0.006	0.003	0.006	0.006	0.006
Al-T	mg/L	62	0.00524	0.00474	<0.0030	0.0222	43	0.003	0.006	0.006	0.003	0.006	0.00663	0.0084
As-D	mg/L	61	0.00235	0.00228	0.00181	0.00391	0	0.00196	0.00203	0.00242	0.00191	0.00203	0.00376	0.00382
As-T	mg/L	62	0.00234	0.00227	0.00175	0.00432	0	0.00195	0.00209	0.00234	0.00183	0.00209	0.0035	0.00376
Ba-D	mg/L	61	0.0179	0.0179	0.0161	0.02	0	0.0169	0.0179	0.0189	0.0165	0.0179	0.0194	0.0196
Ba-T	mg/L	62	0.0176	0.0175	0.015	0.0261	0	0.0165	0.0173	0.0186	0.0157	0.0173	0.0193	0.0197
B-D	mg/L	61	1.033	1.026	0.803	1.42	0	0.94	1.03	1.12	0.886	1.03	1.18	1.21
Be-D	mg/L	61	0.0001510	0.0001385	<0.000010	<0.00020	61	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
Be-T	mg/L	62	0.0001453	0.0001333	<0.000010	<0.00020	62	0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002
Bi-D	mg/L	61	0.00150828	0.00131885	<0.0000050	<0.0020	61	0.001	0.002	0.002	0.001	0.002	0.002	0.002
Bi-T	mg/L	62	0.00145169	0.00126967	<0.0000050	<0.0020	62	0.001	0.001	0.002	0.001	0.001	0.002	0.002
B-T	mg/L	62	0.992	0.984	0.811	1.46	0	0.89	0.989	1.06	0.841	0.989	1.127	1.217
Ca-D	mg/L	61	157.7	156.5	127	197	0	141	157	173	136	157	187	191
Ca-T	mg/L	62	153.0	151.9	123	192	0	137.5	152.5	166	129.1	152.5	180.6	186.9
Cd-D	mg/L	61	0.00001516	0.00001422	<0.0000050	<0.000020	61	1.00E-05	2.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
Cd-T	mg/L	62	0.00001463	0.00001372	<0.0000050	0.00002	60	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
Co-D	mg/L	61	0.001232	0.001047	<0.00040	0.00293	11	0.00079	0.00118	0.0017	0.0004	0.00118	0.00213	0.00239
Co-T	mg/L	62	0.001193	0.001012	<0.00040	0.00296	11	0.000708	0.00112	0.001662	0.0004	0.00112	0.002014	0.002388
Cr-D	mg/L	61	0.001510	0.001385	<0.00010	<0.0020	61	0.001	0.002	0.002	0.001	0.002	0.002	0.002
Cr-T	mg/L	62	0.001453	0.001333	<0.00010	<0.0020	62	0.001	0.001	0.002	0.001	0.001	0.002	0.002
Cu-D	mg/L	61	0.000346	0.000316	0.000166	0.00118	45	0.0002	0.0004	0.0004	0.0002	0.0004	0.0004	0.0004
Cu-T	mg/L	62	0.00172	0.00169	0.00113	0.0028	0	0.0015	0.00163	0.0019	0.00137	0.00163	0.00218	0.00229
Fe-D	mg/L	61	7.52	6.25	2.33	16.4	0	3.4	5.65	10.1	2.94	5.65	15.8	16.2
Fe-T	mg/L	62	7.38	6.14	2.32	16.8	0	3.39	5.67	9.64	2.98	5.67	15.55	16.17
Hard-D	mg/L	61	471	467	379	583	0	416	467	520	405	467	554	565
Hard-T	mg/L	62	456	453	367	569	0	409	459	494	387	459	533	559
K-D	mg/L	61	5.73	5.71	4.59	6.92	0	5.27	5.8	6.09	5.05	5.8	6.3	6.39
K-T	mg/L	62	5.59	5.57	4.79	6.34	0	5.18	5.62	5.93	5.03	5.62	6.12	6.23
Li-D	mg/L	61	0.0150	0.0148	0.0109	0.0207	0	0.013	0.0145	0.0171	0.0115	0.0145	0.0189	0.02
Li-T	mg/L	62	0.0148	0.0145	0.0104	0.0209	0	0.0126	0.0142	0.0168	0.0117	0.0142	0.0189	0.0191
Mg-D	mg/L	61	18.8	18.6	14	24.6	0	16.3	19.4	21.2	15.1	19.4	21.7	22.4

Attachment 1
River Barrier Pillar Passive Treatment System
Table 2

River Barrier Pillar 1														
Date														
Sample Clas: udf_LabRptf														
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile	10th Percentile	50th Percentile	90th Percentile	95th Percentile
Stn.Code														
Mg-T	mg/L	62	18.2	18.0	13.8	23.8	0	15.9	18.1	20.2	14.9	18.1	21.5	22.2
Mn-D	mg/L	61	0.815	0.805	0.63	1.04	0	0.714	0.756	0.935	0.674	0.756	0.991	1.02
Mn-T	mg/L	62	0.792	0.784	0.62	1.02	0	0.689	0.766	0.887	0.66	0.766	0.949	0.99
Mo-D	mg/L	61	0.001512	0.001404	0.000226	<0.0020	60	0.001	0.002	0.002	0.001	0.002	0.002	0.002
Mo-T	mg/L	62	0.00146	0.00135	0.00021	<0.0020	61	0.001	0.001	0.002	0.001	0.001	0.002	0.002
Na-D	mg/L	61	358	356	286	437	0	321	375	384	297	375	394	412
Na-T	mg/L	62	346	344	273	409	0	313	344	376	304	344	397	400
Ni-D	mg/L	61	0.00218	0.00212	<0.0010	0.0042	32	0.002	0.002	0.0023	0.0017	0.002	0.0028	0.0033
Ni-T	mg/L	62	0.00212	0.00204	<0.0010	0.0039	32	0.002	0.002	0.00228	0.0016	0.002	0.0026	0.00339
Pb-D	mg/L	61	0.00030172	0.00027082	<0.000050	<0.00040	61	0.0002	0.0004	0.0004	0.0002	0.0004	0.0004	0.0004
Pb-T	mg/L	62	0.0002905	0.0002628	0.0000083	<0.00040	61	0.0002	0.0002	<0.0004	0.0002	0.0002	0.0004	0.0004
Sb-D	mg/L	61	0.0007544	0.0006823	<0.000020	<0.0010	61	0.0005	0.001	0.001	0.0005	0.001	0.001	0.001
Sb-T	mg/L	62	0.0007261	0.0006565	<0.000020	<0.0010	62	0.0005	0.0005	0.001	0.0005	0.0005	0.001	0.001
S-D	mg/L	61	264	261	201	325	0	235	272	289	215	272	306	312
Se-D	mg/L	60	0.000236	0.000179	<0.00010	0.00115	50	0.0001	0.0002	0.0002	0.0001	0.0002	0.00035	0.000945
Se-T	mg/L	62	0.000175	0.000145	<0.00010	0.00184	61	0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002
Si-D	mg/L	61	3.36	3.34	2.49	4.28	0	3.13	3.27	3.62	3	3.27	3.89	4.03
Si-T	mg/L	62	3.31	3.30	2.54	4.08	0	3.09	3.3	3.48	2.91	3.3	3.75	3.91
Sn-D	mg/L	61	0.007544	0.006823	<0.00020	<0.010	61	0.005	0.01	0.01	0.005	0.01	0.01	0.01
Sn-T	mg/L	62	0.007261	0.006565	<0.00020	<0.010	62	0.005	0.005	0.01	0.005	0.005	0.01	0.01
Sr-D	mg/L	61	1.66	1.65	1.22	2.21	0	1.49	1.6	1.84	1.39	1.6	1.98	2.06
Sr-T	mg/L	62	1.63	1.61	1.24	2.24	0	1.42	1.6	1.83	1.35	1.6	1.91	2
S-T	mg/L	62	257	255	203	313	0	233	263	282	214	263	290	294
Ti-D	mg/L	61	0.007549	0.006926	<0.00050	<0.010	61	0.005	0.01	0.01	0.005	0.01	0.01	0.01
Ti-T	mg/L	62	0.007266	0.006663	<0.00050	<0.010	62	0.005	0.005	0.01	0.005	0.005	0.01	0.01
Tl-D	mg/L	61	0.0000151	0.0000141	0.0000028	<0.000020	60	1.00E-05	2.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
Tl-T	mg/L	62	0.0000146	0.0000137	0.0000055	<0.000020	61	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
U-D	mg/L	61	0.0001521	0.0001432	0.0000763	<0.00020	60	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
U-T	mg/L	62	0.0001464	0.0001376	0.0000747	<0.00020	61	0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002
V-D	mg/L	61	0.007544	0.006823	<0.00020	<0.010	61	0.005	0.01	0.01	0.005	0.01	0.01	0.01
V-T	mg/L	62	0.007261	0.006565	<0.00020	<0.010	62	0.005	0.005	0.01	0.005	0.005	0.01	0.01
Zn-D	mg/L	61	0.00806	0.00756	0.00388	0.017	48	0.005	0.01	0.01	0.005	0.01	0.01	0.01
Zn-T	mg/L	62	0.00791	0.00723	0.00338	0.023	54	0.005	0.0064	0.01	0.005	0.0064	0.01	0.01
Zr-D	mg/L	61	0.000152	0.000144	<0.00010	<0.00020	61	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002
Zr-T	mg/L	62	0.000196	0.000146	<0.00010	0.00315	61	0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date		20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	03-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025
Sample Clas:	M	M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#	C595859	C596285	C596301	C596301	C596301	C596301	C596760	C597028	C597426	C598703	C599564	C599563	C5A0829	C5A0160
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Acidity83	mg/L	<1.0									4.8	20.5	8.2	<1.0
Alk-T	mg/L	510									490	490	490	480
DO-F	mg/L	7.1	7.29	6.9	7.66	7.52	8.14		8.5	8.15	7.91	7.58	7.4	7.43
ORP-F	mV	-89.3	-99.6	-103.1	-105.9	-104.1	-79.4		-71.2	156.1	160.3	127.3	138	111
pH-F	pH Units	7.07	7.07	7.06	7.09	7.08	7.14	7.16	7.19	7.03	7.02	6.95	6.97	6.95
Temp-F	C	9.14	9.28	9.109	8.166	8.68	8.59	9.017	8.77	8.648	8.62	8.835	8.464	9.045
Cond-F	uS/cm	2476.5	2489	2495	2517.2	2535.6	2543.6	2390.5	2479.8	2521.4	2501	2504	2195.8	2149
Br-D	mg/L	<0.010												
Cl-D	mg/L	12												
Carb	mg/L	<1.0									<1.0	<1.0	<1.0	<1.0
DOC	mg/L	1												
F-D	mg/L	<0.050												
H2S	mg/L													
Turb-F	NTU	50.1	52.7	75.22	55.94	61.68	77.31		156.16	52.16	49.08	39.1	42.32	25.27
TSS	mg/L	30	31				33	30	29	22	20	21	19	18
SO4-D	mg/L	850	810	840	680	810	820	820	790	720	730	700	750	740
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000040	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	0.0098	<0.0060	0.0181	0.0132	<0.0060	0.0135	<0.0060	0.0454	<0.0060	0.0291	0.0138	0.008	0.0351
As-D	mg/L	0.00204	0.00204	0.00215	0.00217	0.00201	0.00215	0.00206	0.0019	0.00132	0.0012	0.00152	0.00166	0.00167
As-T	mg/L	0.00315	0.00318	0.00353	0.00356	0.00333	0.00303	0.00291	0.00281	0.0022	0.00218	0.00202	0.00214	0.0023
Ba-D	mg/L	0.0215	0.0197	0.0193	0.0186	0.0165	0.0173	0.0162	0.016	0.0165	0.0163	0.0172	0.0176	0.0184
Ba-T	mg/L	0.0268	0.0243	0.0237	0.0227	0.0202	0.0183	0.0185	0.0186	0.0184	0.0182	0.0177	0.018	0.0208
B-D	mg/L	1.08	1.15	1.14	1.18	1.09	1.2	1.21	0.94	1.12	1.05	1.07	1.1	1.07
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
B-T	mg/L	1.03	1.11	1.14	1.18	1.11	0.92	1.04	1	1.02	0.972	0.953	1.12	1.09
Ca-D	mg/L	192	168	174	178	165	190	183	176	169	150	162	179	172
Ca-T	mg/L	193	189	198	198	186	176	172	166	170	164	159	168	181
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	0.000037	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020
Co-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00058	0.0007	0.00073	0.00078	0.00087
Co-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00064	0.0008	0.00075	0.00075	0.00087
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.0016	0.0016	0.0020	0.0019	0.0017	0.0016	0.0017	0.0015	0.0016	0.00166	0.00158	0.0021	0.002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date	Sample Clas:	20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	03-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025
	udf_LabRpt#	M	M	M	M	M	M	M	M	M	M	M	M	M
		C595859	C596285	C596301	C596301	C596301	C596760	C597028	C597426	C598703	C599564	C599563	C5A0829	C5A0160
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Fe-D	mg/L	8.92	8.87	9.32	9.69	9.08	9.07	8.56	7.56	4.81	4.22	6.46	6.09	5.7
Fe-T	mg/L	13	14.1	14.8	14.6	14.0	13.2	13.7	13	9.07	7.91	8.01	8.39	7.48
Hard-D	mg/L	569	513	530	541	501	568	547	522	511	455	486	534	514
Hard-T	mg/L	570	571	588	584	552	523	520	505	509	490	478	503	537
K-D	mg/L	6.1	6.21	6.40	6.24	5.94	6.47	6.24	6.16	6.01	5.73	5.99	6.03	6.04
K-T	mg/L	6.65	6.73	6.79	6.59	6.30	6.04	5.81	5.75	5.85	5.89	5.97	5.71	6.07
Li-D	mg/L	0.0205	0.019	0.0194	0.0202	0.0176	0.0201	0.0242	0.0176	0.0186	0.0162	0.0172	0.0164	0.017
Li-T	mg/L	0.02	0.0215	0.0207	0.0215	0.0206	0.0171	0.0184	0.0181	0.0177	0.0166	0.0163	0.0164	0.0173
Mg-D	mg/L	21.6	22.3	23.3	23.7	21.9	22.9	21.6	20.1	21.8	19.4	19.9	21.4	20.4
Mg-T	mg/L	21.6	24.4	22.5	21.8	21.1	20.2	21.8	22.1	20.4	19.4	19.3	20	20.5
Mn-D	mg/L	0.994	0.948	0.983	0.956	0.885	1	0.968	0.93	0.893	0.886	0.939	0.928	0.898
Mn-T	mg/L	1.04	0.998	1.08	1.06	0.994	0.875	0.9	0.89	0.98	0.893	0.904	0.849	0.907
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
Na-D	mg/L	383	397	416	400	383	408	382	363	381	345	362	393	373
Na-T	mg/L	387	394	411	399	383	359	385	384	363	352	348	373	370
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010
S-D	mg/L	287	295	313	301	289	315	319	287	284	266	277	293	286
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020
Si-D	mg/L	4	3.68	3.75	3.89	3.57	3.92	3.65	3.66	3.46	3.18	3.34	3.47	3.43
Si-T	mg/L	4.19	4.14	4.23	4.24	4.03	3.63	3.82	3.63	3.22	3.55	3.44	3.46	3.69
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
Sr-D	mg/L	1.95	1.86	2.00	1.94	1.84	2.02	1.92	1.94	1.85	1.7	1.8	1.79	1.89
Sr-T	mg/L	2.22	2.06	2.30	2.37	2.20	1.8	1.86	1.78	1.84	1.76	1.72	1.7	1.93
S-T	mg/L	320	334	344	331	334	289	284	279	285	278	274	275	287
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
Tl-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Tl-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date	Sample Clas:	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025
	udef_LabRpt#	M	M	M	M	M	M	M	M	M	M	M	M	M
		C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C600035	C600037	C600041	C600038
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Acidity83	mg/L	<1.0	9.8	9.1	7	<1.0	<1.0	7.4	7	1.2	<1.0	1.7	<1.0	1.4
Alk-T	mg/L	470	490	490	480	480	480	490	480	480	470	470	470	470
DO-F	mg/L	8.02	8.55	7.4	7.5	7.5	7.67	7.25	7.67	8.24	8.02	8.71	8.6	8.21
ORP-F	mV	164.8	135.1	127	138	139.5	119.8	143.8	156.3	182.1	187.4	212.8	212.5	209.2
pH-F	pH Units	6.95	7	7.01	7.02	7.05	7.02	7	7.04	7.11	7.05	7.05	7.03	7.01
Temp-F	C	8.775	8.94	9.484	9.751	8.706	8.62	7.27	8.11	7.853	8.572	8.084	8.877	8.332
Cond-F	uS/cm	2230.7	2229.8	2212.5	2146.2	2154.4	2134.6	2108.1	2097.8	2037	2035.3	2032.8	2049.1	2313.5
Br-D	mg/L											<0.010		
Cl-D	mg/L											5.7		
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L													
F-D	mg/L											0.060		
H2S	mg/L											<0.0020		
Turb-F	NTU	37.65	24.86	46.51	45.77	47.99	37.69	42.81	40.15	47.84	49.45	36.34	34.23	15.18
TSS	mg/L	23	18	19	20	17	14	13	16	12	9.2	3.2	7.6	9.2
SO4-D	mg/L	710	740	740	690	700	670	680	660	670	640	650	660	650
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0060
Al-T	mg/L	0.126	0.0064	0.0193	0.111	0.129	0.0063	0.0102	0.0451	0.0148	0.0033	0.0040	<0.0030	0.0073
As-D	mg/L	0.00156	0.00156	0.00161	0.00161	0.00148	0.00152	0.00145	0.00163	0.00156	0.0015	0.00153	0.00153	0.00161
As-T	mg/L	0.00286	0.00223	0.00212	0.00263	0.00306	0.0022	0.00228	0.00247	0.00215	0.00202	0.00194	0.00204	0.00203
Ba-D	mg/L	0.0184	0.0172	0.0184	0.0186	0.0184	0.0164	0.0175	0.0185	0.0173	0.0173	0.0170	0.017	0.017
Ba-T	mg/L	0.0205	0.0191	0.0183	0.0202	0.0198	0.0182	0.0193	0.019	0.0175	0.0173	0.0168	0.0177	0.0183
B-D	mg/L	1.19	0.99	1.16	1.11	1.07	0.89	1.02	1.21	1.3	1.21	1.26	1.29	1.14
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
B-T	mg/L	1.55	1.03	1.1	1.17	1.05	0.94	1.18	1.35	1.34	1.04	1.08	1.12	1.24
Ca-D	mg/L	163	169	172	159	161	162	148	163	159	153	153	149	153
Ca-T	mg/L	169	172	163	164	148	154	160	156	151	146	141	153	152
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
Co-D	mg/L	0.00078	0.00080	0.00082	0.00086	0.00096	0.00113	0.001	0.00104	0.00114	0.00122	0.00142	0.00147	0.00154
Co-T	mg/L	0.00083	0.00086	0.00079	0.00086	0.00104	0.00094	0.00103	0.001	0.00109	0.00119	0.00140	0.0015	0.00152
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040
Cu-T	mg/L	0.0023	0.0019	0.0021	0.0021	0.0031	0.0023	0.0023	0.0031	0.00195	0.00176	0.00162	0.00175	0.0017

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date	Sample Clas:	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025
	udf_LabRpt#	M	M	M	M	M	M	M	M	M	M	M	M	M
		C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C600035	C600037	C600041	C600038
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Fe-D	mg/L	5.34	5.41	5.46	5.42	4.53	4.3	3.95	4.36	3.4	3.37	2.70	2.66	3.04
Fe-T	mg/L	8.2	7.39	7.17	7.43	6.19	6.08	6.4	6.25	4.79	4.8	3.88	4.12	4.31
Hard-D	mg/L	499	513	516	482	480	488	452	491	477	465	465	457	455
Hard-T	mg/L	512	510	486	491	444	456	489	477	459	439	426	461	458
K-D	mg/L	6.03	6.15	6.31	5.96	5.9	5.8	5.74	5.97	5.88	5.84	5.65	5.71	5.93
K-T	mg/L	6.03	6.05	5.77	5.89	5.75	6	5.97	5.92	5.66	5.82	5.47	5.94	5.75
Li-D	mg/L	0.0174	0.0151	0.0175	0.0167	0.0161	0.0134	0.0148	0.016	0.0155	0.0132	0.0127	0.0127	0.0139
Li-T	mg/L	0.019	0.0163	0.0162	0.017	0.0161	0.0147	0.0153	0.0164	0.0149	0.0131	0.0125	0.0131	0.0145
Mg-D	mg/L	22.1	22.1	21	20.7	19.1	20.4	19.7	20.2	19.2	20.4	20.1	20.4	17.8
Mg-T	mg/L	22	19.8	19.3	19.5	18.4	17.6	22	21.1	19.6	18.4	18.1	19.4	18.8
Mn-D	mg/L	0.849	0.856	0.898	0.819	0.807	0.881	0.804	0.814	0.713	0.739	0.688	0.715	0.751
Mn-T	mg/L	0.855	0.892	0.833	0.839	0.814	0.841	0.798	0.74	0.689	0.704	0.677	0.741	0.766
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Na-D	mg/L	367	412	389	385	354	385	364	379	379	391	376	383	378
Na-T	mg/L	391	353	359	367	351	343	393	412	371	347	343	379	382
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0019	0.0021	0.0021	0.0022
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0027	0.0017	0.0018	0.0023	0.0023	0.0023
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
S-D	mg/L	287	299	295	275	268	265	266	271	266	266	256	260	260
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00015	<0.00010	<0.00010	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Si-D	mg/L	3.28	3.53	3.41	3.34	3.31	3.1	3.16	3.62	3.26	3.17	3.17	3.11	3.2
Si-T	mg/L	3.9	3.63	3.3	3.46	3.36	3.29	3.64	3.52	3.19	3.08	3.05	3.22	3.08
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Sr-D	mg/L	1.76	1.71	1.82	1.72	1.64	1.51	1.64	1.74	1.62	1.61	1.53	1.54	1.53
Sr-T	mg/L	1.86	1.94	1.67	1.73	1.6	1.83	1.76	1.65	1.6	1.55	1.49	1.55	1.57
S-T	mg/L	289	290	273	273	255	265	278	266	274	263	253	273	259
TI-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
TI-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date	Sample Clas:	03-Jan-2026	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026
	udef_LabRpt#	M	M	M	M	M	M	M	M	M	M	M	M	M
		C600460	C600777	C600995	C601338	C603048	C603048	C603622	C603886	C604394	C605538	C605822	C606988	C607575
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Acidity83	mg/L	<1.0	5.3	8.3	8.3	14.6	9.4	8.2						
Alk-T	mg/L	470	480	480	480	480	470	470	470	460		470		470
DO-F	mg/L		8.22	8.07	8.65	7.92	7.86		8.1	8.44	8.11	8	7.74	8.51
ORP-F	mV		220.6	215.6	148.5	72.8	169.2		213.4	232.4	197.9	200.6	177.5	
pH-F	pH Units		6.98	7.01	7.02	7.08	6.87		6.88	6.81	6.91	6.91	6.92	7.02
Temp-F	C		8.536	8.543	8.739	8.693	8.752		8.541	8.739	9.43	9.524	9.2	9.234
Cond-F	uS/cm		2322.3	2383	2291.7	2188.9	2224.1		1961.9	1791.4	1909	1766.6	1829.5	1769.7
Br-D	mg/L				<0.010	0.013	0.012	<0.010	0.012					
Cl-D	mg/L				5	5.7	5.9	5.5	5.6					
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0
DOC	mg/L													
F-D	mg/L				0.066	0.071	0.062	0.072	0.055					
H2S	mg/L													
Turb-F	NTU		19.95	22.12	23.98	35.3	31.31		5.69	5.57	15	5.61	2.62	0.7
TSS	mg/L	9.2	10	10	9.2	12	9.6	9.2	10					
SO4-D	mg/L	690	630	650	670	660	640	660	650	640		560		560
Ag-D	mg/L	<0.000040	<0.000020	<0.00020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0060	<0.0030	<0.0020	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0071	0.0041	0.0059	0.0187	<0.0060	0.0073	0.0038	<0.0060	0.0034	0.0101	0.0041	0.0053	<0.0030
As-D	mg/L	0.00155	0.00155	<0.0020	0.00174	0.00157	0.00164	0.00169	0.00175	0.00179	0.00176	0.00171	0.00175	0.00188
As-T	mg/L	0.00224	0.00186	0.00181	0.00203	0.00195	0.00198	0.00195	0.00196	0.00186	0.00193	0.00181	0.00203	0.00198
Ba-D	mg/L	0.0168	0.0162	0.0161	0.0167	0.0188	0.0181	0.0179	0.018	0.0195	0.0199	0.0199	0.0192	0.0194
Ba-T	mg/L	0.019	0.0167	0.0161	0.0164	0.0201	0.019	0.0185	0.0173	0.0191	0.0196	0.0194	0.0201	0.0199
B-D	mg/L	0.99	1.21	1.25	0.938	1.14	0.832	1.05	1.2	0.925	1.08	0.875	1.02	0.91
Be-D	mg/L	<0.00020	<0.00010	<0.0020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L	0.836	1.12	1.12	0.867	0.95	0.776	1.17	0.96	1.01	0.859	0.806	0.896	0.895
Ca-D	mg/L	145	141	152	147	141	136	142	141	143	131	132	122	132
Ca-T	mg/L	155	135	134	133	146	140	145	146	134	145	127	122	136
Cd-D	mg/L	<0.000020	<0.000010	<0.0020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L	0.00134	0.00126	<0.0020	0.00127	0.00085	0.00104	0.00116	0.00106	0.00166	0.00184	0.00202	0.00202	0.00231
Co-T	mg/L	0.00133	0.00119	0.00114	0.00123	0.00094	0.00104	0.0012	0.00116	0.00154	0.00178	0.00192	0.00218	0.00221
Cr-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00040	<0.00020	<0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00026	0.00024	<0.00020
Cu-T	mg/L	0.00164	0.0016	0.00155	0.0015	0.0014	0.00146	0.00122	0.0015	0.0015	0.00184	0.00182	0.00169	0.00155

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1														
Date	Sample Clas:	03-Jan-2026	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026
	udf_LabRpt#	M	M	M	M	M	M	M	M	M	M	M	M	M
		C600460	C600777	C600995	C601338	C603048	C603048	C603622	C603886	C604394	C605538	C605822	C606988	C607575
Parameter	Unit													
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Fe-D	mg/L	2.92	2.73	2.68	2.81	3.91	3.17	3.47	3.74	2.72	2.68	2.44	1.96	2.04
Fe-T	mg/L	4.03	4	3.98	4.11	5.62	4.24	4.22	4.59	2.99	3.1	2.73	2.41	2.4
Hard-D	mg/L	430	423	452	431	422	409	427	431	419	392	387	364	392
Hard-T	mg/L	456	404	400	392	435	416	441	435	408	425	378	372	402
K-D	mg/L	5.49	5.66	5.7	5.51	5.5	5.41	5.5	5.64	5.66	5.24	5.03	4.95	5.31
K-T	mg/L	6.01	5.4	5.26	4.99	5.88	5.63	5.73	5.57	5.15	5.43	5.06	5.03	5.21
Li-D	mg/L	0.0133	0.0134	0.0131	0.0129	0.0152	0.0143	0.0139	0.0133	0.0145	0.0129	0.0119	0.0137	0.0138
Li-T	mg/L	0.0117	0.0133	0.0126	0.0122	0.013	0.0109	0.014	0.0139	0.0125	0.0114	0.0109	0.0127	0.0129
Mg-D	mg/L	16.6	17.4	17.8	15.4	17.1	17	17.8	18.8	15.4	15.6	14.2	14.3	15.2
Mg-T	mg/L	16.7	16.4	15.9	14.4	17.1	16.2	19.3	17.1	17.7	15.6	14.5	16.2	15.3
Mn-D	mg/L	0.721	0.696	0.655	0.72	0.664	0.69	0.691	0.677	0.725	0.679	0.67	0.584	0.66
Mn-T	mg/L	0.756	0.656	0.633	0.701	0.706	0.696	0.709	0.717	0.638	0.688	0.62	0.596	0.651
Mo-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L	341	375	369	326	350	340	351	378	319	338	281	301	305
Na-T	mg/L	352	350	333	305	348	334	379	355	326	318	305	305	298
Ni-D	mg/L	<0.0020	0.0018	<0.0020	0.0017	0.0011	0.0014	0.0015	0.0015	0.0022	0.0024	0.0026	0.003	0.0031
Ni-T	mg/L	0.0018	0.0017	0.0016	0.0017	<0.0020	0.0013	0.0016	<0.0020	0.0021	0.0023	0.0025	0.0032	0.0031
Pb-D	mg/L	<0.00040	<0.00020	<0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.0010	<0.00050	<0.0020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L	255	258	252	247	248	245	259	260	232	241	198	207	219
Se-D	mg/L	<0.00020	0.00026	<0.0020	<0.00010	<0.00010	<0.00010	<0.00010	0.00018	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.07	3.1	3.25	3.21	3.29	3.15	3.06	3.1	3.14	3.08	3.15	3.04	3.1
Si-T	mg/L	3.34	2.91	2.92	2.97	3.39	3.26	3.1	3.18	3	3.44	3.09	3.05	3.17
Sn-D	mg/L	<0.010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.52	1.49	1.45	1.56	1.51	1.49	1.48	1.55	1.61	1.4	1.36	1.27	1.36
Sr-T	mg/L	1.83	1.41	1.38	1.44	1.51	1.51	1.53	1.47	1.43	1.44	1.26	1.27	1.36
S-T	mg/L	260	247	236	225	246	245	271	256	237	235	205	209	222
Ti-D	mg/L	<0.010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000020	<0.000010	<0.0020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00020	<0.00010	<0.0020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00020	<0.00010	<0.0020	<0.00010	<0.00010	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1				
Date		19-Feb-2026	23-Feb-2026	25-Feb-2026
	Sample Clas:	M	M	M
	udf_LabRpt#	C609693	C610095	C610796
Parameter	Unit			
	Stn.Code	SP1	SP1	SP1
Acidity83	mg/L			
Alk-T	mg/L			
DO-F	mg/L	8.67	8.16	8.37
ORP-F	mV	30.5	0.5	11.1
pH-F	pH Units	6.98	7.05	6.83
Temp-F	C	7.754	8.602	9.208
Cond-F	uS/cm	1816	1815.2	1909
Br-D	mg/L			
Cl-D	mg/L			
Carb	mg/L			
DOC	mg/L			
F-D	mg/L			
H2S	mg/L			
Turb-F	NTU	52.5	5.82	3.83
TSS	mg/L			
SO4-D	mg/L		530	620
Ag-D	mg/L	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0036	0.0046	0.0064
As-D	mg/L	0.00134	0.00189	0.00186
As-T	mg/L	0.00176	0.00194	0.00194
Ba-D	mg/L	0.02	0.0208	0.0195
Ba-T	mg/L	0.0199	0.02	0.0192
B-D	mg/L	0.829	0.906	0.822
Be-D	mg/L	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010
B-T	mg/L	0.831	0.866	0.861
Ca-D	mg/L	132	133	132
Ca-T	mg/L	124	129	128
Cd-D	mg/L	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010
Co-D	mg/L	0.00119	0.00163	0.0016
Co-T	mg/L	0.00117	0.00157	0.00147
Cr-D	mg/L	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00147	0.00148	0.00152

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1				
Date		19-Feb-2026	23-Feb-2026	25-Feb-2026
Sample Clas:		M	M	M
udf_LabRpt#		C609693	C610095	C610796
Parameter	Unit			
	Stn.Code	SP1	SP1	SP1
Fe-D	mg/L	2.23	2.26	2.65
Fe-T	mg/L	4.05	2.73	3.02
Hard-D	mg/L	392	396	392
Hard-T	mg/L	370	383	380
K-D	mg/L	5.12	5.26	5.17
K-T	mg/L	4.97	5.01	4.97
Li-D	mg/L	0.0119	0.0124	0.0112
Li-T	mg/L	0.013	0.0122	0.0122
Mg-D	mg/L	14.9	15.6	15.4
Mg-T	mg/L	14.4	14.5	14.5
Mn-D	mg/L	0.604	0.677	0.642
Mn-T	mg/L	0.581	0.631	0.643
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Na-D	mg/L	305	311	301
Na-T	mg/L	288	288	297
Ni-D	mg/L	0.0016	0.0021	0.0021
Ni-T	mg/L	0.0015	0.002	0.002
Pb-D	mg/L	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050
S-D	mg/L	199	217	205
Se-D	mg/L	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.84	3.28	2.78
Si-T	mg/L	3	3.21	2.93
Sn-D	mg/L	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.33	1.55	1.31
Sr-T	mg/L	1.31	1.35	1.39
S-T	mg/L	193	211	197
Ti-D	mg/L	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050
TI-D	mg/L	<0.000010	<0.000010	<0.000010
TI-T	mg/L	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1											
Date		02-Mar-2026	04-Mar-2026	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
Sample Clas:		M	M	M	M	M	M	M	M	M	M
udf_LabRpt#		C611546	C612204	C613064	C613668	C614547	C615091		C615992	C616212	C617372
Parameter	Unit										
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Acidity83	mg/L										
Alk-T	mg/L										
DO-F	mg/L	8.1	8.41	8.01	8.65	8.27	8.04	7.62	8.34	8.47	8.99
ORP-F	mV	46.1	87.3	63.4	24.6	63.8	46	57.2	79.7	-1.1	52
pH-F	pH Units	6.83	6.93	6.94	6.92	6.79	6.84	6.97	6.78	6.99	7
Temp-F	C	8.732	8.74	9.214	8.646	8.967	9.494	9.488	9.475	9.111	8.897
Cond-F	uS/cm	1903.1	2028.8	1801.7	1884.9	1838.9	1836.6	1858.3	1821.6	1739.8	1766.7
Br-D	mg/L										
Cl-D	mg/L										
Carb	mg/L										
DOC	mg/L										
F-D	mg/L										
H2S	mg/L										
Turb-F	NTU	13.6	8.83	17.18	16.37	5.5	3.24	6.12	10.22	5.37	4.18
TSS	mg/L										
SO4-D	mg/L	620	550	550	590	560	630		580	610	670
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0092	0.0208	0.0061	0.0109	0.0093	0.0033		0.01	0.0073	0.0092
As-D	mg/L	0.00164	0.00167	0.00168	0.00177	0.00194	0.00191		0.00194	0.0019	0.00187
As-T	mg/L	0.00206	0.00212	0.00197	0.00208	0.00205	0.0021		0.00221	0.00215	0.00221
Ba-D	mg/L	0.0195	0.0186	0.0204	0.0205	0.0202	0.0185		0.0199	0.0196	0.0192
Ba-T	mg/L	0.0205	0.0202	0.0206	0.0202	0.0186	0.0201		0.0203	0.0207	0.0202
B-D	mg/L	0.943	0.807	0.979	0.916	0.918	1.14		1	0.989	0.919
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L	0.914	0.926	0.872	0.858	0.8	1.03		0.897	1.04	0.842
Ca-D	mg/L	137	130	126	138	136	121		143	137	151
Ca-T	mg/L	134	137	131	135	133	126		146	148	147
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		0.000011	<0.000010	0.000012
Co-D	mg/L	0.00156	0.00188	0.00191	0.00178	0.00204	0.00219		0.00269	0.00272	0.00294
Co-T	mg/L	0.00157	0.00183	0.00174	0.00171	0.0019	0.00226		0.00282	0.00285	0.00292
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00027		0.00025	0.00026	<0.00020
Cu-T	mg/L	0.00142	0.00148	0.00194	0.00158	0.00177	0.00188		0.00191	0.00203	0.00201

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1											
Date		02-Mar-2026	04-Mar-2026	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
Sample Clas:	M	M	M	M	M	M	M	M	M	M	M
udf_LabRpt#	C611546	C612204	C613064	C613668	C614547	C615091			C615992	C616212	C617372
Parameter	Unit										
	Stn.Code	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1	SP1
Fe-D	mg/L	2.29	1.87	2.05	2.07	2.5	2.28		2.13	2.29	2.36
Fe-T	mg/L	3.13	2.61	2.68	2.93	2.54	2.9		2.43	2.75	2.83
Hard-D	mg/L	403	390	372	408	402	362		425	407	444
Hard-T	mg/L	396	403	387	399	394	380		432	437	436
K-D	mg/L	5.19	5.27	5.04	5.1	4.94	4.41		5.04	4.85	5.07
K-T	mg/L	5.17	5.03	4.95	5.18	4.73	4.92		5.22	5.05	5.13
Li-D	mg/L	0.0142	0.0112	0.0133	0.013	0.013	0.0116		0.0122	0.0138	0.0133
Li-T	mg/L	0.0139	0.0126	0.0125	0.0129	0.01	0.0128		0.0125	0.0153	0.0122
Mg-D	mg/L	15	15.9	13.9	15.5	15.1	14.6		16.5	16	16.4
Mg-T	mg/L	15	14.7	14.5	15.2	14.9	16.1		16.7	16.6	16.6
Mn-D	mg/L	0.662	0.656	0.698	0.689	0.7	0.641		0.719	0.744	0.734
Mn-T	mg/L	0.652	0.652	0.639	0.658	0.631	0.678		0.735	0.753	0.762
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Na-D	mg/L	304	313	282	315	294	280		305	302	302
Na-T	mg/L	300	298	280	295	292	304		306	298	313
Ni-D	mg/L	0.0021	0.0026	0.0025	0.0023	0.0025	0.0031		0.0037	0.0035	0.0036
Ni-T	mg/L	0.0022	0.0025	0.0024	0.0024	0.0025	0.0032		0.0038	0.0036	0.0036
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
S-D	mg/L	220	215	212	221	219	195		226	214	226
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.04	2.59	2.92	3.14	3.3	2.61		3.28	2.9	3.17
Si-T	mg/L	2.97	3.23	3.05	3.18	2.94	2.93		3.3	3.72	3.3
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.39	1.27	1.42	1.51	1.54	1.2		1.45	1.51	1.51
Sr-T	mg/L	1.38	1.36	1.34	1.43	1.51	1.31		1.52	1.53	1.53
S-T	mg/L	214	212	200	217	212	212		243	240	225
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Ti-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	0.00013	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1										
Date										
Sample Clas: udf_LabRptf										
Parameter	Unit Stn.Code	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Acidity83	mg/L	25	5.61	3.46	<1.0	20.5	8	1	5.3	8.3
Alk-T	mg/L	29	478.6	478.5	460	510	0	470	480	480
DO-F	mg/L	50	8.02	8.01	6.9	8.99	0	7.66	8.09	8.37
ORP-F	mV	49	98.0	100.3	-105.9	232.4	0	46	127.3	177.5
pH-F	pH Units	51	6.99	6.99	6.78	7.19	0	6.94	7	7.05
Temp-F	C	51	8.803	8.790	7.27	9.751	0	8.596	8.752	9.126
Cond-F	uS/cm	51	2114.6	2098.7	1739.8	2543.6	0	1848.6	2108.1	2317.9
Br-D	mg/L	7	0.0110	0.0109	<0.010	0.013	4	0.01	0.01	0.012
Cl-D	mg/L	7	6.5	6.2	5	12	0	5.5	5.7	5.8
Carb	mg/L	29	1.00	1.00	<1.0	<1.0	29	1	1	1
DOC	mg/L	1	1.0	1.0	1	1	0	1	1	1
F-D	mg/L	7	0.0623	0.0618	<0.050	0.072	1	0.0575	0.062	0.0685
H2S	mg/L	1	0.00200	0.00200	<0.0020	<0.0020	1	0.002	0.002	0.002
Turb-F	NTU	50	31.55	20.20	0.7	156.16	0	9.18	28.29	47.51
TSS	mg/L	31	16.6	14.7	3.2	33	0	9.8	16	20.5
SO4-D	mg/L	48	675	671	530	850	0	630	665	722
Ag-D	mg/L	51	0.0000682	0.0000303	<0.000020	<0.00020	51	2.00E-05	2.00E-05	4.00E-05
Ag-T	mg/L	51	0.0000286	0.0000270	<0.000020	<0.000040	51	2.00E-05	2.00E-05	4.00E-05
Al-D	mg/L	51	0.00439	0.00412	<0.0020	<0.0060	51	0.003	0.003	0.006
Al-T	mg/L	51	0.01728	0.00959	<0.0030	0.129	8	0.00595	0.0073	0.01365
As-D	mg/L	51	0.00172	0.00171	0.0012	0.00217	1	0.00156	0.00168	0.00189
As-T	mg/L	51	0.00228	0.00224	0.00176	0.00356	0	0.00198	0.00212	0.00229
Ba-D	mg/L	51	0.0183	0.0182	0.016	0.0215	0	0.0171	0.0184	0.0195
Ba-T	mg/L	51	0.0194	0.0193	0.0161	0.0268	0	0.0183	0.0192	0.0202
B-D	mg/L	51	1.055	1.047	0.807	1.3	0	0.939	1.07	1.155
Be-D	mg/L	51	0.000184	0.000147	<0.00010	<0.0020	51	0.0001	0.0001	0.0002
Be-T	mg/L	51	0.000143	0.000135	<0.00010	<0.00020	51	0.0001	0.0001	0.0002
Bi-D	mg/L	51	0.00149	0.00140	<0.0010	<0.0020	51	0.001	0.001	0.002
Bi-T	mg/L	51	0.00143	0.00135	<0.0010	<0.0020	51	0.001	0.001	0.002
B-T	mg/L	51	1.017	1.006	0.776	1.55	0	0.895	1.02	1.115
Ca-D	mg/L	51	151.8	150.8	121	192	0	137	150	164
Ca-T	mg/L	51	152.3	151.0	122	198	0	135	148	165
Cd-D	mg/L	51	0.0000537	0.0000154	<0.000010	<0.0020	51	1.00E-05	1.00E-05	2.00E-05
Cd-T	mg/L	51	0.0000147	0.0000137	<0.000010	0.000037	48	1.00E-05	1.00E-05	2.00E-05
Co-D	mg/L	51	0.001275	0.001098	<0.00040	0.00294	9	0.00079	0.00116	0.00172
Co-T	mg/L	51	0.001250	0.001083	<0.00040	0.00292	8	0.000815	0.00116	0.00157
Cr-D	mg/L	51	0.00149	0.00140	<0.0010	<0.0020	51	0.001	0.001	0.002
Cr-T	mg/L	51	0.00143	0.00135	<0.0010	<0.0020	51	0.001	0.001	0.002
Cu-D	mg/L	51	0.000335	0.000297	<0.00020	<0.0020	46	0.0002	0.00027	0.0004
Cu-T	mg/L	51	0.00179	0.00176	0.00122	0.0031	0	0.00155	0.0017	0.00195

Attachment 1
River Barrier Pillar Passive Treatment System
Table 3

Settling Pond 1										
Date										
Sample Clas: udf_LabRptf										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
	Stn.Code									
Fe-D	mg/L	51	4.25	3.73	1.87	9.69	0	2.47	3.37	5.42
Fe-T	mg/L	51	6.10	5.15	2.4	14.8	0	3	4.31	7.7
Hard-D	mg/L	51	454	451	362	569	0	407	452	500
Hard-T	mg/L	51	454	451	370	588	0	402	441	497
K-D	mg/L	51	5.64	5.62	4.41	6.47	0	5.25	5.7	6
K-T	mg/L	51	5.62	5.60	4.73	6.79	0	5.16	5.73	5.96
Li-D	mg/L	51	0.0150	0.0148	0.0112	0.0242	0	0.013	0.0139	0.0169
Li-T	mg/L	51	0.0148	0.0145	0.01	0.0215	0	0.0126	0.0139	0.0165
Mg-D	mg/L	51	18.4	18.2	13.9	23.7	0	15.6	18.8	20.5
Mg-T	mg/L	51	18.1	17.9	14.4	24.4	0	16	18.1	20.1
Mn-D	mg/L	51	0.775	0.767	0.584	1	0	0.683	0.725	0.885
Mn-T	mg/L	51	0.771	0.761	0.581	1.08	0	0.657	0.74	0.865
Mo-D	mg/L	51	0.00149	0.00140	<0.0010	<0.0020	51	0.001	0.001	0.002
Mo-T	mg/L	51	0.00143	0.00135	<0.0010	<0.0020	51	0.001	0.001	0.002
Na-D	mg/L	51	351	349	280	416	0	312	363	382
Na-T	mg/L	51	344	342	280	412	0	305	350	376
Ni-D	mg/L	51	0.00216	0.00211	0.0011	0.0037	24	0.002	0.002	0.0022
Ni-T	mg/L	51	0.00215	0.00208	<0.0010	0.0038	22	0.002	0.002	0.0023
Pb-D	mg/L	51	0.000329	0.000290	<0.00020	<0.0020	51	0.0002	0.0002	0.0004
Pb-T	mg/L	51	0.000286	0.000270	<0.00020	<0.00040	51	0.0002	0.0002	0.0004
Sb-D	mg/L	51	0.000765	0.000712	<0.00050	<0.0020	51	0.0005	0.0005	0.001
Sb-T	mg/L	51	0.000716	0.000674	<0.00050	<0.0010	51	0.0005	0.0005	0.001
S-D	mg/L	51	255	253	195	319	0	223	260	285
Se-D	mg/L	51	0.000190	0.000153	<0.00010	<0.0020	48	0.0001	0.0002	0.0002
Se-T	mg/L	51	0.000143	0.000135	<0.00010	<0.00020	51	0.0001	0.0001	0.0002
Si-D	mg/L	51	3.26	3.25	2.59	4	0	3.1	3.2	3.42
Si-T	mg/L	51	3.36	3.35	2.91	4.24	0	3.08	3.29	3.59
Sn-D	mg/L	51	0.00729	0.00681	<0.0020	<0.010	51	0.005	0.005	0.01
Sn-T	mg/L	51	0.00716	0.00674	<0.0050	<0.010	51	0.005	0.005	0.01
Sr-D	mg/L	51	1.61	1.59	1.2	2.02	0	1.48	1.55	1.77
Sr-T	mg/L	51	1.63	1.61	1.26	2.37	0	1.43	1.55	1.79
S-T	mg/L	51	256	254	193	344	0	225	259	278
Ti-D	mg/L	51	0.00729	0.00681	<0.0020	<0.010	51	0.005	0.005	0.01
Ti-T	mg/L	51	0.00716	0.00674	<0.0050	<0.010	51	0.005	0.005	0.01
TI-D	mg/L	51	0.0000537	0.0000154	<0.000010	<0.0020	51	1.00E-05	1.00E-05	2.00E-05
TI-T	mg/L	51	0.0000143	0.0000135	<0.000010	<0.000020	51	1.00E-05	1.00E-05	2.00E-05
U-D	mg/L	51	0.000184	0.000147	<0.00010	<0.0020	51	0.0001	0.0001	0.0002
U-T	mg/L	51	0.000143	0.000135	<0.00010	<0.00020	51	0.0001	0.0001	0.0002
V-D	mg/L	51	0.00729	0.00681	<0.0020	<0.010	51	0.005	0.005	0.01
V-T	mg/L	51	0.00716	0.00674	<0.0050	<0.010	51	0.005	0.005	0.01
Zn-D	mg/L	51	0.00729	0.00681	<0.0020	<0.010	51	0.005	0.005	0.01
Zn-T	mg/L	51	0.00716	0.00674	<0.0050	<0.010	51	0.005	0.005	0.01
Zr-D	mg/L	51	0.000185	0.000148	<0.00010	<0.0020	50	0.0001	0.00014	0.0002
Zr-T	mg/L	51	0.000144	0.000136	<0.00010	<0.00020	50	0.0001	0.0001	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2														
Date		20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	03-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025
Sample Class:		M	M	M	M	M	M	M	M	M	M	M	M	M
uof_LabRptI		C595859	C596285	C596301	C596301	C596301	C596760	C597028	C597426	C598703	C599564	C599563	C5A0829	C5A0160
Parameter	Unit													
Stn.Code		SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Acidity83	mg/L	1.6									3.7	2.3	4.4	1.2
Alk-T	mg/L	490									480	490	490	480
DO-F	mg/L	7.65	6.93	7.68	7.85	7.73	9.22	9.02	9.52	9.1	8.59	7.05	8.18	7.45
ORP-F	mV	-70.3	-88.4	-89.8	-92.4	-80.4	14.9	58	20.7	176	169.2	151.4	167.8	107.6
pH-F	pH Units	7.08	7.08	7.11	7.12	7.11	7.16	7.24	7.23	7.14	7.11	6.96	7.06	6.99
Temp-F	C	8.96	9.1	9.121	7.807	8.449	7.83	8.447	7.81	8.263	8.26	8.74	7.688	8.823
Cond-F	uS/cm	2441.7	2488	2460	2484	2471.1	2507	2349.1	2385	2500.4	2481.6	2493.5	2152.6	2189
Br-D	mg/L	<0.010												
Cl-D	mg/L	12												
Carb	mg/L	<1.0									<1.0	<1.0	<1.0	<1.0
DOC	mg/L	0.99												
F-D	mg/L	0.076												
H2S	mg/L													
Turb-F	NTU	62.75	73.34	97.48	89.15	101.47	103.46	118.27	99.09	73.02	70.9	59.67	73.44	62
TSS	mg/L	25	26				28	29	26	18	19	20	18	16
SO4-D	mg/L	810	820	530	770	810	820	810	770	720	710	760	710	750
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	0.0134	0.008	0.0196	<0.0060	<0.0060	0.014	<0.0060	0.0408	<0.0060	0.0211	0.0178	0.0124	0.0213
As-D	mg/L	0.00123	0.00123	0.00122	0.00121	0.00116	0.00111	0.00125	0.00103	0.00078	0.00069	0.001	0.00113	0.00107
As-T	mg/L	0.00256	0.00264	0.00284	0.00300	0.00286	0.00291	0.00276	0.00252	0.0017	0.00194	0.00198	0.00194	0.00208
Ba-D	mg/L	0.0381	0.0261	0.0227	0.0212	0.0217	0.0186	0.0192	0.0166	0.0225	0.0207	0.0202	0.0191	0.021
Ba-T	mg/L	0.0489	0.0328	0.0278	0.0269	0.0260	0.0265	0.0251	0.0239	0.0246	0.0241	0.0215	0.0204	0.0219
B-D	mg/L	1.08	1.19	1.19	1.21	1.24	1.17	1.27	0.85	1.22	1.07	1.12	1.12	1.03
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
B-T	mg/L	1.07	1.16	1.11	1.11	1.09	1.03	1.17	1.1	1.02	1	0.972	1.08	1.1
Ca-D	mg/L	195	168	167	169	173	171	182	149	172	155	162	176	173
Ca-T	mg/L	196	188	191	188	185	197	189	175	168	169	166	164	178
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	0.000034	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
Co-D	mg/L	0.00044	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00055	0.0007	0.00073	0.00075	0.00076
Co-T	mg/L	0.00043	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00059	0.00078	0.00076	0.00069	0.00083
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.0013	0.0013	0.0015	0.0015	0.0015	0.0017	0.0016	0.0014	0.0013	0.00153	0.00154	0.00367	0.0018

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2														
Date		20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	03-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025
Sample Class:	M	M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI	C595859	C596285	C596301	C596301	C596301	C596301	C596760	C597028	C597426	C598703	C599564	C599563	C5A0829	C5A0160
Parameter	Unit													
Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Fe-D	mg/L	3.86	4.55	4.41	4.25	3.84	3.41	3.68	3.35	1.41	1.33	3.07	3.14	2.75
Fe-T	mg/L	10.3	11.8	11.7	12.1	12.2	12.8	12.9	11.9	7.24	7	7.61	7.49	7.04
Hard-D	mg/L	581	513	511	515	527	510	542	447	526	467	490	527	514
Hard-T	mg/L	583	567	566	558	548	587	572	532	504	505	495	492	525
K-D	mg/L	6.62	6.3	6.36	6.05	6.48	5.8	6.32	6.38	6.19	5.89	6.13	6.06	5.89
K-T	mg/L	7.14	6.78	6.52	6.51	6.30	6.9	6.47	6.07	5.85	6.03	5.98	5.46	5.91
Li-D	mg/L	0.0201	0.0187	0.0190	0.0192	0.0197	0.0184	0.0256	0.016	0.0184	0.016	0.0173	0.0167	0.0169
Li-T	mg/L	0.0195	0.0207	0.0198	0.0195	0.0195	0.0186	0.0195	0.0192	0.0171	0.0166	0.0164	0.0154	0.0175
Mg-D	mg/L	22.6	22.7	22.6	22.7	23.3	20.4	21.4	18.3	23.4	19.5	21	21.3	19.9
Mg-T	mg/L	22.7	23.7	21.7	21.5	20.7	22.8	24.6	23.3	20.6	19.9	19.5	20.2	19.8
Mn-D	mg/L	1.05	0.952	0.934	0.919	0.952	0.853	0.95	0.81	0.868	0.87	0.902	0.88	0.852
Mn-T	mg/L	1.06	1.01	1.03	1.00	0.977	1.05	0.953	0.902	0.882	0.898	0.902	0.791	0.872
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Na-D	mg/L	387	403	396	394	413	371	378	317	393	353	367	387	360
Na-T	mg/L	396	406	393	391	382	413	416	404	355	360	354	358	360
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010
S-D	mg/L	312	299	298	302	307	282	338	246	294	268	279	288	276
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Si-D	mg/L	4.03	3.62	3.66	3.63	3.66	3.48	3.63	3.08	3.54	3.18	3.32	3.33	3.49
Si-T	mg/L	4.32	4.18	4.06	4.03	4.02	3.9	4.15	3.67	3.17	3.76	3.63	3.37	3.61
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Sr-D	mg/L	2.01	1.88	1.89	1.82	1.90	1.79	1.94	1.61	1.87	1.73	1.84	1.72	1.89
Sr-T	mg/L	2.29	2.07	2.18	2.22	2.12	2.06	2.09	1.84	1.81	1.79	1.77	1.68	1.95
S-T	mg/L	331	331	352	332	323	326	306	291	286	282	276	285	304
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
U-D	mg/L	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	0.00023	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00011	<0.00010	<0.00010	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2														
Date		11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025
	Sample Clas:	M	M	M	M	M	M	M	M	M	M	M	M	M
	uof_LabRptI	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C600035	C600037	C600041	C600038
Parameter	Unit													
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Acidity83	mg/L	2.6	10.9	7.9	5.3	<1.0	<1.0	8.2	4.9	<1.0	1.4	2.0	<1.0	<1.0
Alk-T	mg/L	460	480	490	470	480	470	480	480	480	470	460	470	470
DO-F	mg/L	9.08	8.87	7.75	7.89	7.88	8.04	8.11	8.17	8.49	8.3	8.97	8.84	8.75
ORP-F	mV	175.9	142.2	142.4	149.2	150.2	119.2	163.3	164	184.8	187.6	212.6	212.6	213
pH-F	pH Units	7.05	7.04	7.03	7.05	7.07	7.06	7.07	7.12	7.16	7.14	7.13	7.1	7.06
Temp-F	C	8.606	8.77	9.442	9.716	8.58	8.13	8.37	7.874	7.654	8.239	8.064	8.441	8.58
Cond-F	uS/cm	2211.9	2180.8	2153.1	2152.1	2144.1	2148.6	2110.3	2106.9	2035	2038.9	2032.7	2030	2301.3
Br-D	mg/L											<0.010		
Cl-D	mg/L											5.9		
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L													
F-D	mg/L											<0.050		
H2S	mg/L											<0.0020		
Turb-F	NTU	60.8	60.22	69.52	70.23	69.77	57.98	66.75	65.6	54.85	65.26	53.04	54.8	25.32
TSS	mg/L	17	17	15	18	14	14	13	13	8.8	10	3.2	8	8.4
SO4-D	mg/L	710	720	690	700	730	670	700	670	640	650	650	650	650
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0060
Al-T	mg/L	0.0319	0.0085	0.0456	0.0533	0.0604	0.0096	0.0102	0.0116	0.0116	<0.0030	0.0032	0.0033	0.0066
As-D	mg/L	0.00112	0.00112	0.00108	0.00121	0.00107	0.00111	0.00108	0.0012	0.00121	0.00113	0.00118	0.00119	0.00125
As-T	mg/L	0.00207	0.00197	0.002	0.00227	0.00246	0.00205	0.00201	0.00192	0.00191	0.00187	0.00184	0.00184	0.00206
Ba-D	mg/L	0.019	0.0188	0.0186	0.0195	0.019	0.0186	0.0195	0.0193	0.0187	0.0185	0.0185	0.0187	0.0183
Ba-T	mg/L	0.0209	0.0227	0.0216	0.0213	0.0207	0.0207	0.0215	0.0195	0.0192	0.0194	0.0188	0.0188	0.0204
B-D	mg/L	1.16	1.02	1.14	1.16	1.09	0.94	1.03	1.22	1.3	1.23	1.22	1.29	1.18
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
B-T	mg/L	1.56	1.01	1.11	1.15	1.02	0.8	1.17	1.32	1.34	1.03	1.07	1.08	1.24
Ca-D	mg/L	163	161	158	165	159	161	152	151	160	153	165	156	147
Ca-T	mg/L	166	164	164	166	144	145	151	156	146	144	143	144	156
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
Co-D	mg/L	0.00075	0.00078	0.00079	0.00082	0.00091	0.00108	0.00103	0.00099	0.00115	0.00116	0.00142	0.0014	0.00147
Co-T	mg/L	0.00077	0.00080	0.00081	0.00082	0.0009	0.00088	0.00099	0.0009	0.00105	0.00112	0.00139	0.00139	0.00153
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040
Cu-T	mg/L	0.0018	0.0018	0.0019	0.0021	0.0031	0.0021	0.0022	0.0019	0.00191	0.00177	0.00159	0.00203	0.0019

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2														
Date		11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025
Sample Class:		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI		C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C600035	C600037	C600041	C600038
Parameter	Unit													
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Fe-D	mg/L	2.95	3.02	2.57	3.35	2.55	2.24	2.22	2.32	1.78	1.73	1.38	1.32	1.42
Fe-T	mg/L	7.22	6.53	6.59	6.91	5.7	5.34	5.75	5.66	4.37	4.52	3.69	3.52	4
Hard-D	mg/L	497	492	481	498	475	484	465	463	481	467	497	478	443
Hard-T	mg/L	504	488	493	497	433	435	466	474	444	433	434	433	467
K-D	mg/L	5.88	6.18	6.01	6.07	5.85	5.79	5.89	5.97	5.87	5.9	5.63	5.73	5.84
K-T	mg/L	6	5.96	5.95	5.92	5.45	5.86	5.9	5.7	5.66	5.9	5.74	5.54	6.05
Li-D	mg/L	0.0167	0.0149	0.0162	0.0172	0.0158	0.0136	0.0146	0.016	0.0152	0.0131	0.0126	0.0128	0.0136
Li-T	mg/L	0.0184	0.0161	0.016	0.0165	0.0154	0.0134	0.0151	0.016	0.0145	0.0128	0.0124	0.0124	0.0147
Mg-D	mg/L	22.2	22.1	20.9	20.7	19	19.7	20.5	21	20.1	20.5	20.4	21.4	18.2
Mg-T	mg/L	21.7	19.1	20	19.7	17.6	17.5	21.6	20.4	19.1	17.9	18.3	17.9	18.7
Mn-D	mg/L	0.821	0.851	0.804	0.799	0.79	0.835	0.79	0.787	0.705	0.728	0.696	0.693	0.728
Mn-T	mg/L	0.825	0.851	0.849	0.82	0.753	0.767	0.783	0.694	0.667	0.694	0.687	0.663	0.761
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Na-D	mg/L	370	411	382	375	345	388	369	386	378	381	385	395	362
Na-T	mg/L	393	341	373	358	338	319	391	385	357	338	349	347	398
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0018	0.0021	0.0021	0.0021
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	0.0055	<0.0020	<0.0020	<0.0020	<0.0020	0.0015	0.0018	0.0021	0.002	0.0023
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
S-D	mg/L	278	298	276	275	270	271	277	270	273	268	260	262	257
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Si-D	mg/L	3.21	3.47	3.2	3.41	3.26	3.04	3.28	3.44	3.24	3.05	3.16	2.98	3.14
Si-T	mg/L	3.66	3.50	3.29	3.45	3.2	3.27	3.4	3.47	3.17	3.08	3.08	3	3.22
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Sr-D	mg/L	1.71	1.68	1.69	1.7	1.63	1.52	1.69	1.73	1.62	1.57	1.56	1.58	1.55
Sr-T	mg/L	1.79	1.85	1.72	1.72	1.57	1.81	1.69	1.52	1.56	1.51	1.50	1.47	1.62
S-T	mg/L	286	294	279	276	244	265	275	254	267	262	260	253	263
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2								
Date		06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026
Sample Clas:		M	M	M	M	M	M	M
udf_LabRptId		C600777	C600995	C601338	C603048	C603048	C603622	C603886
Parameter	Unit							
Stn.Code		SP2	SP2	SP2	SP2	SP2	SP2	SP2
Acidity83	mg/L	5	7.4	7.5	5.8	10.6	8.1	
Alk-T	mg/L	480	480	490	480	480	470	470
DO-F	mg/L	8.65	8.71	9.09	8.25	8.23	7.9	8.49
ORP-F	mV	220.8	216.8	148.2	107.9	184.3	148.9	216.7
pH-F	pH Units	7.05	7.1	7.12	7.13	6.94	6.94	6.95
Temp-F	C	7.555	8.088	8.308	8.617	8.589	6.673	8.182
Cond-F	uS/cm	2317.4	2280	2281.4	2128.7	2214.1	1891.3	1958.1
Br-D	mg/L			0.013	0.013	0.014	<0.010	0.01
Cl-D	mg/L			5.9	5.3	6.2	5.5	5.8
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L							
F-D	mg/L			0.072	0.072	0.063	0.078	0.054
H2S	mg/L							
Turb-F	NTU	37.4	32.3	31.98	51.03	41	34.15	22.43
TSS	mg/L	10	8.8	7.2	8	9.2	8	8.8
SO4-D	mg/L	640	650	650	640	620	660	660
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0038	0.0046	0.0058	<0.0060	0.0053	0.004	<0.0060
As-D	mg/L	0.00118	0.00117	0.00126	0.0015	0.00124	0.00162	0.00148
As-T	mg/L	0.0017	0.00179	0.00181	0.00214	0.0017	0.00195	0.00179
Ba-D	mg/L	0.0175	0.0164	0.0177	0.0218	0.0191	0.0187	0.0186
Ba-T	mg/L	0.0184	0.0185	0.0181	0.0228	0.0206	0.0192	0.0189
B-D	mg/L	1.18	1.06	0.932	1.15	0.823	0.993	1.24
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
B-T	mg/L	1.11	1.19	0.852	0.9	0.754	0.887	1.02
Ca-D	mg/L	140	147	141	138	138	143	145
Ca-T	mg/L	135	134	135	135	135	142	149
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020
Co-D	mg/L	0.00123	0.00116	0.00121	0.00079	0.00101	0.00106	0.00106
Co-T	mg/L	0.00113	0.00119	0.00117	0.00082	0.00098	0.00111	0.0012
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00154	0.00148	0.00143	0.0015	0.00132	0.00162	0.0015

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2								
Date		06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026
Sample Clas:		M	M	M	M	M	M	M
udf_LabRptI		C600777	C600995	C601338	C603048	C603048	C603622	C603886
Parameter	Unit							
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Fe-D	mg/L	1.19	1.21	1.17	1.76	1.65	2.12	2.49
Fe-T	mg/L	3.65	3.75	3.63	4.55	3.73	3.62	4.24
Hard-D	mg/L	423	439	416	414	415	427	437
Hard-T	mg/L	403	404	397	404	402	425	445
K-D	mg/L	5.63	5.51	5.54	5.48	5.35	5.75	5.5
K-T	mg/L	5.28	5.42	5.01	5.62	5.6	5.79	5.65
Li-D	mg/L	0.0132	0.0129	0.0128	0.0151	0.0117	0.0157	0.0134
Li-T	mg/L	0.0125	0.013	0.0121	0.0122	0.0098	0.0123	0.014
Mg-D	mg/L	17.6	17.5	15.3	16.9	16.9	16.7	18.5
Mg-T	mg/L	16	16.7	14.5	16	15.5	16.8	17.8
Mn-D	mg/L	0.694	0.637	0.697	0.645	0.659	0.732	0.659
Mn-T	mg/L	0.622	0.643	0.677	0.646	0.661	0.706	0.729
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
Na-D	mg/L	374	357	323	340	336	338	372
Na-T	mg/L	344	356	300	331	325	359	365
Ni-D	mg/L	0.0017	0.0016	0.0016	0.001	0.0013	0.0014	0.0015
Ni-T	mg/L	0.0016	0.0016	0.0016	<0.0020	0.0012	0.0015	<0.0020
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.0010
S-D	mg/L	257	244	242	244	243	246	260
Se-D	mg/L	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
Si-D	mg/L	3.04	3.11	3.17	3.33	3.13	3.24	3.13
Si-T	mg/L	2.93	2.94	2.99	3.23	3.12	2.9	3.22
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Sr-D	mg/L	1.49	1.39	1.6	1.49	1.47	1.67	1.55
Sr-T	mg/L	1.4	1.44	1.46	1.41	1.44	1.48	1.48
S-T	mg/L	244	253	229	232	239	244	267
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
TI-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
TI-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2											
Date		22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026	23-Feb-2026	25-Feb-2026	02-Mar-2026
	Sample Clas	M	M	M	M	M	M	M	M	M	M
	udf_LabRptI		C604394	C605538	C605822	C606988	C607575	C609693	C610095	C610796	C611546
Parameter	Unit										
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Acidity83	mg/L										
Alk-T	mg/L		460		470		470				
DO-F	mg/L	8.41		8.45	8.23	8.17	7.59	8.86	8.56	8.79	8.59
ORP-F	mV	226.6	178	200.2	204.2	179.5		102.8	27.7	42.9	119.6
pH-F	pH Units	6.98	7.27	6.95	6.93	6.98	7.05	7.19	7.11	6.85	6.94
Temp-F	C	9.015	8.5	9.37	9.354	9.02	9.37	7.51	8.206	8.102	8.167
Cond-F	uS/cm	1796.4	2197	1900.3	1764	1824.3	1769.8	1733.6	1795.7	1908.3	1923.9
Br-D	mg/L										
Cl-D	mg/L										
Carb	mg/L		<1.0		<1.0		<1.0				
DOC	mg/L										
F-D	mg/L										
H2S	mg/L										
Turb-F	NTU	11.71	31.5	20.23	13.09	7.86	15.03	43.74	15.55	17.45	31.32
TSS	mg/L										
SO4-D	mg/L		630		580		560		520	580	540
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L		0.0032	0.006	0.0032	0.0045	0.0038	0.0132	0.0054	0.0042	0.0072
As-D	mg/L		0.0015	0.00154	0.00153	0.00166	0.00163	0.00131	0.00162	0.00158	0.00128
As-T	mg/L		0.00197	0.00167	0.00168	0.00214	0.00201	0.00244	0.00196	0.0019	0.00202
Ba-D	mg/L		0.0197	0.0204	0.0203	0.021	0.02	0.0241	0.022	0.0189	0.0203
Ba-T	mg/L		0.0216	0.0189	0.0199	0.021	0.022	0.0253	0.0212	0.0207	0.0209
B-D	mg/L		0.909	1.06	0.866	1.09	0.956	0.81	0.922	0.809	0.955
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L		1.1	0.824	0.846	0.884	0.902	0.882	0.87	0.853	0.915
Ca-D	mg/L		142	137	134	125	139	137	139	141	139
Ca-T	mg/L		147	130	122	118	134	122	129	136	134
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L		0.00159	0.00179	0.00196	0.00208	0.00224	0.00103	0.00163	0.00155	0.00148
Co-T	mg/L		0.00166	0.00162	0.00186	0.00204	0.00219	0.00104	0.00158	0.00153	0.00149
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	0.00021	0.00023	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00159	0.00157	0.00168	0.00268	0.0016	0.0013	0.00147	0.00159	0.00179

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2											
Date	Sample Clas	22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026	23-Feb-2026	25-Feb-2026	02-Mar-2026
	udf_LabRptI	M	M	M	M	M	M	M	M	M	M
Parameter	Unit		C604394	C605538	C605822	C606988	C607575	C609693	C610095	C610796	C611546
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Fe-D	mg/L		1.8	1.8	1.69	1.37	1.41	0.375	1.4	2.06	1.12
Fe-T	mg/L		3.06	2.71	2.46	2.71	2.28	3.31	2.59	2.9	3.04
Hard-D	mg/L		415	407	393	376	409	402	414	411	408
Hard-T	mg/L		446	384	365	357	398	364	384	402	395
K-D	mg/L		5.64	5.2	5.04	5.31	5.38	5.09	5.4	5	5.28
K-T	mg/L		5.6	5.04	5.12	4.82	5.38	5.06	5.14	5.16	5.04
Li-D	mg/L		0.0142	0.0129	0.0113	0.0138	0.0138	0.0122	0.0123	0.0112	0.0146
Li-T	mg/L		0.0138	0.0105	0.0111	0.0122	0.0133	0.0139	0.0121	0.0124	0.0138
Mg-D	mg/L		15	15.8	14.1	15.5	14.9	14.8	16.1	14.6	15.1
Mg-T	mg/L		18.8	14.5	14.5	15.3	15.5	14.5	14.9	15.1	15
Mn-D	mg/L		0.706	0.668	0.657	0.612	0.633	0.525	0.676	0.619	0.641
Mn-T	mg/L		0.707	0.614	0.613	0.562	0.656	0.512	0.626	0.659	0.627
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L		311	336	283	326	303	299	313	295	299
Na-T	mg/L		364	292	306	294	301	290	295	307	297
Ni-D	mg/L		0.0022	0.0024	0.0027	0.0031	0.003	0.0014	0.0022	0.002	0.002
Ni-T	mg/L		0.0023	0.0021	0.0024	0.003	0.0031	0.0014	0.002	0.002	0.002
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L		231	240	205	225	218	194	211	201	217
Se-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.18	3.13	3.1	3.06	3.27	2.99	3.36	2.99	3.07
Si-T	mg/L		3.31	3.1	2.99	2.93	3.16	3.08	3.19	3.14	3.01
Sn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L		1.57	1.39	1.41	1.34	1.37	1.25	1.54	1.25	1.4
Sr-T	mg/L		1.54	1.32	1.24	1.23	1.46	1.23	1.38	1.42	1.34
S-T	mg/L		261	209	202	200	221	189	217	206	211
Ti-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Tl-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tl-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2										
Date		04-Mar-2026	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
Sample Class:		M	M	M	M	M	M	M	M	M
udf_LabRptI		C612204	C613064	C613668	C614547	C615091		C615992	C616212	C617372
Parameter	Unit									
Stn.Code		SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Acidity83	mg/L									
Alk-T	mg/L									
DO-F	mg/L	8.06	8.29	8.66	9.24	8.4	7.91	8.65	9.33	9.3
ORP-F	mV	149.2	120.4	88.5	129.5	72.3	85.8	117.4	22.3	71.5
pH-F	pH Units	6.96	7.04	6.96	6.81	6.86	7.01	6.82	7.03	7.06
Temp-F	C	9.04	9.643	8.152	9.1	9.437	9.403	9.527	9.157	8.442
Cond-F	uS/cm	2027.6	1798.5	1882	1828.1	1831.5	1854.6	1816.3	1721.5	1765.9
Br-D	mg/L									
Cl-D	mg/L									
Carb	mg/L									
DOC	mg/L									
F-D	mg/L									
H2S	mg/L									
Turb-F	NTU	19.14	30.11	32.89	18.14	13.24	7.33	22.8	9.1	16.72
TSS	mg/L									
SO4-D	mg/L	570	560	600	580	630		590	600	600
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0098	0.0062	0.0094	0.0134	0.003		0.0128	0.0035	<0.0030
As-D	mg/L	0.00149	0.0014	0.0015	0.0017	0.0019		0.00231	0.00178	0.00165
As-T	mg/L	0.00208	0.00181	0.00197	0.00216	0.00235		0.00305	0.00198	0.00212
Ba-D	mg/L	0.0191	0.0209	0.0217	0.0201	0.0199		0.021	0.0201	0.02
Ba-T	mg/L	0.0214	0.0209	0.022	0.0201	0.0214		0.0229	0.0208	0.0205
B-D	mg/L	0.837	1.01	0.893	0.902	1.14		0.991	1.01	0.913
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L	0.9	0.84	0.902	0.818	1.06		0.922	1.04	0.834
Ca-D	mg/L	131	127	140	137	122		143	144	148
Ca-T	mg/L	140	126	132	137	128		143	144	150
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	0.000029	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000018	<0.000010		0.00001	<0.000010	0.000013
Co-D	mg/L	0.00171	0.00188	0.00172	0.00197	0.00216		0.00257	0.00257	0.00284
Co-T	mg/L	0.00183	0.00164	0.00164	0.00184	0.00222		0.00272	0.00277	0.00286
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		0.0002	<0.00020	<0.00020
Cu-T	mg/L	0.00144	0.0013	0.00133	0.00157	0.00172		0.00181	0.002	0.00203

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2										
Date		04-Mar-2026	09-Mar-2026	11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
	Sample Clas:	M	M	M	M	M	M	M	M	M
	udf_LabRptI	C612204	C613064	C613668	C614547	C615091		C615992	C616212	C617372
Parameter	Unit									
	Stn.Code	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Fe-D	mg/L	0.966	1.03	1.09	1.73	1.61		1.41	1.67	1.6
Fe-T	mg/L	2.48	2.47	2.55	2.54	2.83		2.29	2.57	2.71
Hard-D	mg/L	391	375	414	404	369		426	423	436
Hard-T	mg/L	413	372	391	404	388		428	427	443
K-D	mg/L	5.14	5.19	5.11	4.91	4.73		5.14	4.66	5.06
K-T	mg/L	5.16	4.65	5.13	4.8	4.98		5.36	5.05	5.12
Li-D	mg/L	0.0117	0.0134	0.0123	0.0125	0.0122		0.0122	0.0139	0.0133
Li-T	mg/L	0.0125	0.0118	0.0131	0.0103	0.0131		0.0128	0.015	0.0115
Mg-D	mg/L	15.5	14.2	15.4	14.9	15.7		16.7	15.3	16.1
Mg-T	mg/L	15.4	13.9	15.2	14.6	16.5		17	16.5	16.7
Mn-D	mg/L	0.607	0.684	0.647	0.683	0.658		0.705	0.711	0.724
Mn-T	mg/L	0.652	0.616	0.648	0.631	0.678		0.749	0.731	0.755
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Na-D	mg/L	306	284	316	290	299		305	290	300
Na-T	mg/L	301	273	295	295	311		310	295	311
Ni-D	mg/L	0.0024	0.0026	0.0023	0.0026	0.0031		0.0035	0.0034	0.0035
Ni-T	mg/L	0.0025	0.0022	0.0022	0.0027	0.003		0.0037	0.0036	0.0036
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
S-D	mg/L	214	211	236	216	209		229	210	219
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.66	2.93	3.08	3.36	2.8		3.33	3.13	3.08
Si-T	mg/L	3.3	2.98	3.13	3.01	3.03		3.46	3.67	3.34
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.25	1.43	1.49	1.52	1.27		1.44	1.54	1.48
Sr-T	mg/L	1.38	1.32	1.38	1.47	1.33		1.56	1.5	1.57
S-T	mg/L	215	190	218	217	217		246	236	226
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2										
Date										
Sample Class: udf_LabRptI										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Acidity83	mg/L	24	4.41	3.20	<1.0	10.9	5	1.35	4.05	7.43
Alk-T	mg/L	28	476.4	476.3	460	490	0	470	480	480
DO-F	mg/L	51	8.39	8.37	6.93	9.52	0	7.97	8.41	8.81
ORP-F	mV	51	118.5	120.7	-92.4	226.6	0	79	148.2	178.8
pH-F	pH Units	52	7.05	7.05	6.81	7.27	0	6.98	7.06	7.11
Temp-F	C	52	8.544	8.520	6.673	9.716	0	8.146	8.474	9.055
Cond-F	uS/cm	52	2101.1	2086.7	1721.5	2507	0	1875.2	2119.5	2286.4
Br-D	mg/L	7	0.0114	0.0113	<0.010	0.014	3	0.01	0.01	0.013
Cl-D	mg/L	7	6.7	6.4	5.3	12	0	5.7	5.9	6.1
Carb	mg/L	28	1.00	1.00	<1.0	<1.0	28	1	1	1
DOC	mg/L	1	0.99	0.99	0.99	0.99	0	0.99	0.99	0.99
F-D	mg/L	7	0.0664	0.0656	<0.050	0.078	1	0.0585	0.072	0.074
H2S	mg/L	1	0.00200	0.00200	<0.0020	<0.0020	1	0.002	0.002	0.002
Turb-F	NTU	52	47.80	38.17	7.33	118.27	0	21.88	47.39	67.44
TSS	mg/L	30	14.8	13.2	3.2	29	0	8.8	14	18
SO4-D	mg/L	47	665	660	520	820	0	600	650	715
Ag-D	mg/L	50	0.0000292	0.0000275	<0.000020	<0.000040	50	2.00E-05	2.00E-05	4.00E-05
Ag-T	mg/L	50	0.0000284	0.0000268	<0.000020	<0.000040	50	2.00E-05	2.00E-05	4.00E-05
Al-D	mg/L	50	0.00438	0.00413	<0.0030	<0.0060	50	0.003	0.003	0.006
Al-T	mg/L	50	0.01197	0.00830	<0.0030	0.0604	8	0.00452	0.0064	0.0131
As-D	mg/L	50	0.00132	0.00129	0.00069	0.00231	0	0.00113	0.00123	0.0015
As-T	mg/L	50	0.00212	0.00210	0.00167	0.00305	0	0.0019	0.002	0.00224
Ba-D	mg/L	50	0.0202	0.0201	0.0164	0.0381	0	0.0187	0.0196	0.021
Ba-T	mg/L	50	0.0223	0.0219	0.0181	0.0489	0	0.0202	0.0211	0.0228
B-D	mg/L	50	1.064	1.054	0.809	1.3	0	0.944	1.075	1.18
Be-D	mg/L	50	0.000146	0.000138	<0.00010	<0.00020	50	0.0001	0.0001	0.0002
Be-T	mg/L	50	0.000142	0.000134	<0.00010	<0.00020	50	0.0001	0.0001	0.0002
Bi-D	mg/L	50	0.00146	0.00138	<0.0010	<0.0020	50	0.001	0.001	0.002
Bi-T	mg/L	50	0.00142	0.00134	<0.0010	<0.0020	50	0.001	0.001	0.002
B-T	mg/L	50	1.020	1.009	0.754	1.56	0	0.89	1.025	1.108
Ca-D	mg/L	50	151.6	150.8	122	195	0	139.2	148.5	162.8
Ca-T	mg/L	50	151.6	150.2	118	197	0	135	144.5	166
Cd-D	mg/L	50	0.0000150	0.0000141	<0.000010	0.000029	49	1.00E-05	1.00E-05	2.00E-05
Cd-T	mg/L	50	0.0000147	0.0000138	<0.000010	0.000034	46	1.00E-05	1.00E-05	2.00E-05
Co-D	mg/L	50	0.001215	0.001050	<0.00040	0.00284	7	0.000753	0.00107	0.00162
Co-T	mg/L	50	0.001207	0.001044	<0.00040	0.00286	7	0.000785	0.00108	0.00161
Cr-D	mg/L	50	0.00146	0.00138	<0.0010	<0.0020	50	0.001	0.001	0.002
Cr-T	mg/L	50	0.00142	0.00134	<0.0010	<0.0020	50	0.001	0.001	0.002
Cu-D	mg/L	50	0.000293	0.000276	<0.00020	<0.00040	47	0.0002	0.000205	0.0004
Cu-T	mg/L	50	0.00173	0.00169	0.0013	0.00367	0	0.0015	0.0016	0.00188

Attachment 1
River Barrier Pillar Passive Treatment System
Table 4

Settling Pond 2										
Date										
Sample Class: udf_LabRptI										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Fe-D	mg/L	50	2.152	1.928	0.375	4.55	0	1.402	1.77	2.9
Fe-T	mg/L	50	5.49	4.70	2.28	12.9	0	2.85	4.12	7.03
Hard-D	mg/L	50	454	452	369	581	0	414	445	495
Hard-T	mg/L	50	453	449	357	587	0	402	434	496
K-D	mg/L	50	5.64	5.62	4.66	6.62	0	5.29	5.69	5.95
K-T	mg/L	50	5.65	5.62	4.65	7.14	0	5.14	5.63	5.96
Li-D	mg/L	50	0.0149	0.0147	0.0112	0.0256	0	0.0128	0.014	0.0166
Li-T	mg/L	50	0.0146	0.0144	0.0098	0.0207	0	0.0124	0.0138	0.0165
Mg-D	mg/L	50	18.5	18.3	14.1	23.4	0	15.6	18.4	21
Mg-T	mg/L	50	18.2	17.9	13.9	24.6	0	15.5	17.9	20.1
Mn-D	mg/L	50	0.754	0.746	0.525	1.05	0	0.661	0.718	0.847
Mn-T	mg/L	50	0.757	0.746	0.512	1.06	0	0.653	0.718	0.851
Mo-D	mg/L	50	0.00146	0.00138	<0.0010	<0.0020	50	0.001	0.001	0.002
Mo-T	mg/L	50	0.00142	0.00134	<0.0010	<0.0020	50	0.001	0.001	0.002
Na-D	mg/L	50	348	346	283	413	0	311	358	381
Na-T	mg/L	50	343	341	273	416	0	306	348	371
Ni-D	mg/L	50	0.00213	0.00207	0.001	0.0035	22	0.002	0.002	0.0022
Ni-T	mg/L	50	0.00215	0.00204	<0.0010	0.0055	22	0.002	0.002	0.0022
Pb-D	mg/L	50	0.000292	0.000275	<0.00020	<0.00040	50	0.0002	0.0002	0.0004
Pb-T	mg/L	50	0.000284	0.000268	<0.00020	<0.00040	50	0.0002	0.0002	0.0004
Sb-D	mg/L	50	0.000730	0.000688	<0.00050	<0.0010	50	0.0005	0.0005	0.001
Sb-T	mg/L	50	0.000710	0.000669	<0.00050	<0.0010	50	0.0005	0.0005	0.001
S-D	mg/L	50	254	252	194	338	0	226	258	276
Se-D	mg/L	50	0.000146	0.000138	<0.00010	<0.00020	49	0.0001	0.0001	0.0002
Se-T	mg/L	50	0.000142	0.000134	<0.00010	<0.00020	50	0.0001	0.0001	0.0002
Si-D	mg/L	50	3.24	3.23	2.66	4.03	0	3.08	3.19	3.36
Si-T	mg/L	50	3.36	3.34	2.9	4.32	0	3.08	3.23	3.58
Sn-D	mg/L	50	0.00730	0.00688	<0.0050	<0.010	50	0.005	0.005	0.01
Sn-T	mg/L	50	0.00710	0.00669	<0.0050	<0.010	50	0.005	0.005	0.01
Sr-D	mg/L	50	1.59	1.58	1.25	2.01	0	1.47	1.57	1.72
Sr-T	mg/L	50	1.62	1.60	1.23	2.29	0	1.42	1.53	1.79
S-T	mg/L	50	257	254	189	352	0	222	257	284
Ti-D	mg/L	50	0.00730	0.00688	<0.0050	<0.010	50	0.005	0.005	0.01
Ti-T	mg/L	50	0.00710	0.00669	<0.0050	<0.010	50	0.005	0.005	0.01
Tl-D	mg/L	50	0.0000146	0.0000138	<0.000010	<0.000020	50	1.00E-05	1.00E-05	2.00E-05
Tl-T	mg/L	50	0.0000142	0.0000134	<0.000010	<0.000020	50	1.00E-05	1.00E-05	2.00E-05
U-D	mg/L	50	0.000146	0.000138	<0.00010	0.00021	49	0.0001	0.0001	0.0002
U-T	mg/L	50	0.000143	0.000134	<0.00010	0.00023	48	0.0001	0.0001	0.0002
V-D	mg/L	50	0.00730	0.00688	<0.0050	<0.010	50	0.005	0.005	0.01
V-T	mg/L	50	0.00710	0.00669	<0.0050	<0.010	50	0.005	0.005	0.01
Zn-D	mg/L	50	0.00730	0.00688	<0.0050	<0.010	50	0.005	0.005	0.01
Zn-T	mg/L	50	0.00710	0.00669	<0.0050	<0.010	50	0.005	0.005	0.01
Zr-D	mg/L	50	0.000146	0.000138	<0.00010	<0.00020	50	0.0001	0.0001	0.0002
Zr-T	mg/L	50	0.000142	0.000134	<0.00010	<0.00020	50	0.0001	0.0001	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3													
Date		20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025	03-Dec-2025
	Sample Clas:	M	M	M	M	M	M	M	M	M	M	M	M
	udf_LabRptl	C595855	C596150	C596303	C596303	C596303	C596758	C597033	C597430	C597673	C597939	C597939	C598701
Parameter	Unit												
	Stn.Code	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Acidity83	mg/L	<1.0	1.6	3.7	<1.0	<1.0	3.7	7.1	<1.0				
Alk-T	mg/L	460	500	580	510	500	510		500				
DO-F	mg/L	7.27	6.9	7.15	8.08	8.86	8.96	8.19	8.42	8.87	9.05	10.86	9.24
ORP-F	mV	56.2	-62.6	-62.3	-63	-74.8	169.5	33.2	-20.1	8.3	55	179.5	178.6
pH-F	pH Units	7.27	7.04	7.07	7.14	7.26	6.97	7.23	7.22	7.31	7.28	7.5	7.26
Temp-F	C	8.333	8.895	8.925	7.917	7.99	8.7	8.501	8.39	6.494	7.87	7.016	7.687
Cond-F	uS/cm	2165.4	2455.4	2455.1	2453	2467.7	2542.7	2451.2	2365	2439.1	2433	2395.3	2500.9
Br-D	mg/L	0.027	0.027	0.029	0.026	0.026	0.023		0.024				
Cl-D	mg/L	11	12	14	12	11	12		11				
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0				
DOC	mg/L	0.95	0.83										
F-D	mg/L	<0.050	0.077	0.077	0.074	0.074	0.074		0.066				
H2S	mg/L												
Turb-F	NTU	45.9	75.68	86.92	100.14	95.23	108.27	104.91	103.52	96.33	91.6	59.56	60.17
TSS	mg/L	12	17	23	20	21	24	22	22	19	17	11	12
SO4-D	mg/L	730	820	860	790	780	800		780		780	730	750
Ag-D	mg/L	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Al-D	mg/L	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	0.0986	<0.0060	0.0114	0.0089	<0.0060	0.0081	<0.0060	0.0185	0.0078	<0.0060	0.0148	<0.0060
As-D	mg/L	0.00075	0.00081	0.00079	0.00081	0.00077	0.00069	0.00086	0.00077	0.00071	0.00073	0.00058	0.00060
As-T	mg/L	0.00143	0.00173	0.00193	0.00213	0.00203	0.0023	0.00227	0.00207	0.00199	0.00184	0.00134	0.00142
Ba-D	mg/L	0.0837	0.0398	0.0292	0.0254	0.0223	0.0214	0.0210	0.022	0.0215	0.0208	0.0291	0.0256
Ba-T	mg/L	0.0816	0.0422	0.0327	0.0294	0.0249	0.0286	0.0248	0.0256	0.026	0.0241	0.0353	0.0291
B-D	mg/L	0.846	0.96	1.05	1.05	1.08	1.25	1.02	0.94	1.13	0.98	1.01	1.25
Be-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
B-T	mg/L	0.874	0.86	1.06	1.07	1.01	1.07	1.01	0.9	1.17	1.08	1.2	1.30
Ca-D	mg/L	168	178	185	195	193	175	181	166	166	190	179	174
Ca-T	mg/L	139	164	183	182	179	196	175	196	178	164	180	173
Cd-D	mg/L	0.000039	0.000024	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	0.00005	0.00003	<0.000020	0.000021	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Co-D	mg/L	0.00122	0.00048	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.0004	<0.00040	0.00050
Co-T	mg/L	0.00103	0.00046	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00049
Cr-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cu-D	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.00083	<0.0010	0.0010	0.0011	0.0013	0.0013	0.0013	0.0012	<0.0010	0.001	<0.0010	<0.0010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3													
Date		20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	26-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025	03-Dec-2025
	Sample Clas	M	M	M	M	M	M	M	M	M	M	M	M
	udf_LabRptl	C595855	C596150	C596303	C596303	C596303	C596758	C597033	C597430	C597673	C597939	C597939	C598701
Parameter	Unit												
	Stn.Code	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Fe-D	mg/L	0.681	1.45	1.45	1.29	1.08	0.615	1.28	1.38	0.724	0.769	<0.010	0.167
Fe-T	mg/L	4.09	6.81	8.25	8.84	8.78	9.9	9.42	11.4	8.52	7.45	4.39	5.31
Hard-D	mg/L	503	533	547	578	572	529	536	499	512	562	533	528
Hard-T	mg/L	431	491	544	540	532	584	527	566	544	502	551	523
K-D	mg/L	7.26	6.61	6.21	6.48	6.37	6.24	6.34	6.32	6.74	6.37	6.34	6.45
K-T	mg/L	6.19	5.99	6.08	6.14	5.88	6.7	6.29	5.83	6.21	5.96	6.64	6.25
Li-D	mg/L	0.0128	0.0167	0.0191	0.0195	0.0196	0.0187	0.0176	0.0172	0.0178	0.0177	0.0171	0.0188
Li-T	mg/L	0.0131	0.0152	0.0200	0.0196	0.0188	0.0192	0.0171	0.0161	0.019	0.0186	0.0191	0.0183
Mg-D	mg/L	20.4	21.2	20.8	21.9	21.9	22.2	20.5	20.8	23.7	21.2	21	22.5
Mg-T	mg/L	20.3	19.7	21.0	20.8	20.4	22.9	21.6	18.8	24.2	22.3	25	22.3
Mn-D	mg/L	0.917	0.987	0.963	1.01	0.990	0.9	0.910	0.902	0.897	0.94	0.808	0.870
Mn-T	mg/L	0.805	0.903	0.974	0.953	0.914	0.997	0.913	0.871	0.863	0.845	0.827	0.843
Mo-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Na-D	mg/L	345	375	366	390	392	375	365	404	383	377	370	393
Na-T	mg/L	317	346	365	370	362	426	390	326	415	393	421	376
Ni-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Pb-D	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Sb-D	mg/L	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
S-D	mg/L	252	300	294	313	320	301	311	297	298	303	285	297
Se-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L	3.45	3.75	3.81	3.92	3.85	3.7	3.70	3.17	3.56	3.71	3.47	3.57
Si-T	mg/L	3.54	3.49	3.99	3.91	3.79	3.94	3.50	3.73	3.9	3.29	3.56	3.69
Sn-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sr-D	mg/L	1.57	1.93	1.96	2.01	2.02	1.87	2.05	1.92	1.9	1.98	1.83	1.79
Sr-T	mg/L	1.44	1.72	1.93	1.93	1.86	2.05	1.73	1.79	1.89	1.74	1.91	1.79
S-T	mg/L	262	275	296	298	284	314	285	278	292	279	302	286
Ti-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	0.0068	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
TI-D	mg/L	0.000014	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L	0.000015	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
U-D	mg/L	0.00057	0.00024	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	0.00053	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zr-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3									
Date		04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025
Sample Class	udf_LabRptI	M	M	M	M	M	M	M	M
Parameter	Unit	C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525
Stn.Code		SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Acidity83	mg/L			<1.0	<1.0	1.8	2.7	<1.0	5
Alk-T	mg/L			470	480	480	480	480	460
DO-F	mg/L	9.54	9.11	9.23	9.1	9.18	8.7	8.76	8.92
ORP-F	mV	184.2	188.8	194.1	169.2	153.8	171.3	130.4	182.6
pH-F	pH Units	7.28	7.23	7.21	7.22	7.13	7.14	7.13	7.05
Temp-F	C	8.27	8.14	8.022	8.15	8.441	7.843	8.568	8.258
Cond-F	uS/cm	2454.9	2455	446.7	2460	2461.2	2139.7	2117	2151.7
Br-D	mg/L								
Cl-D	mg/L								
Carb	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L								
F-D	mg/L								
H2S	mg/L								
Turb-F	NTU	60.85	47.37	49.60	61.4	65.19	73.38	60	75.46
TSS	mg/L	12		9.6	12	16	14	14	16
SO4-D	mg/L	780		720	730	780	710	750	690
Ag-D	mg/L	<0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020
Al-D	mg/L	<0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	0.0138	0.0207	0.0082	0.0063	0.0222	0.0182	0.0247	0.0142
As-D	mg/L	0.00059	0.00063	0.00051	0.00053	0.00061	0.00072	0.00075	0.00073
As-T	mg/L	0.00144	0.00133	0.00142	0.00145	0.00179	0.00167	0.00182	0.00164
Ba-D	mg/L	0.0239	0.0251	0.024	0.0242	0.0205	0.0205	0.0202	0.0201
Ba-T	mg/L	0.0269	0.028	0.0279	0.0279	0.024	0.0228	0.0249	0.0219
B-D	mg/L	1.12	1.14	1.02	1.11	0.99	1.14	1	1.13
Be-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
Bi-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
B-T	mg/L	1.08	1.06	0.976	1.03	1.01	1.03	1.05	1.14
Ca-D	mg/L	169	169	167	159	156	176	173	160
Ca-T	mg/L	167	160	168	169	168	167	181	155
Cd-D	mg/L	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000010	0.000012	<0.000010	<0.000010	<0.000020	<0.000010
Co-D	mg/L	0.00059	0.00061	0.00074	0.00067	0.0007	0.00071	0.00076	0.00075
Co-T	mg/L	0.00060	0.00062	0.00069	0.00076	0.00076	0.00071	0.0008	0.0007
Cr-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Cu-D	mg/L	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	<0.0010	<0.0010	0.00094	0.0011	0.00137	0.00136	0.0015	0.00154

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3									
Date		04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025
Sample Class		M	M	M	M	M	M	M	M
udf_LabRptl		C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525
Parameter	Unit								
	Stn.Code	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Fe-D	mg/L	0.297	0.0921	0.068	0.145	0.863	0.695	0.771	0.836
Fe-T	mg/L	5.00	4.34	4.06	4.48	6.18	5.84	5.93	5.48
Hard-D	mg/L	511	510	503	478	469	525	514	488
Hard-T	mg/L	503	487	499	506	501	502	536	470
K-D	mg/L	6.14	6.01	6.15	6.07	5.82	6.04	5.94	5.95
K-T	mg/L	6.01	6.08	6.03	6.23	6.07	5.65	6.11	5.52
Li-D	mg/L	0.0166	0.0163	0.0161	0.0165	0.016	0.0167	0.0153	0.0163
Li-T	mg/L	0.0165	0.016	0.0166	0.0166	0.0166	0.0148	0.0169	0.0154
Mg-D	mg/L	21.7	21.3	20.7	19.6	19.5	21	20	21.6
Mg-T	mg/L	20.7	21.2	19.6	20.3	19.7	20.8	20.5	20
Mn-D	mg/L	0.809	0.811	0.868	0.864	0.85	0.858	0.852	0.812
Mn-T	mg/L	0.833	0.807	0.837	0.874	0.877	0.805	0.879	0.741
Mo-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010
Na-D	mg/L	374	368	374	347	341	384	366	363
Na-T	mg/L	378	402	346	364	355	366	374	336
Ni-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	0.0013
Pb-D	mg/L	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020
Sb-D	mg/L	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050
S-D	mg/L	291	307	272	271	265	287	291	281
Se-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
Si-D	mg/L	3.41	3.36	3.23	3.3	3.16	3.43	3.39	3.19
Si-T	mg/L	3.59	3.43	3.75	3.65	3.7	3.41	3.71	3.28
Sn-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Sr-D	mg/L	1.80	1.78	1.64	1.76	1.74	1.74	1.87	1.67
Sr-T	mg/L	1.76	1.73	1.78	1.83	1.83	1.71	1.96	1.69
S-T	mg/L	285	283	278	283	280	295	297	276
Ti-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Tl-D	mg/L	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Tl-T	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010
U-D	mg/L	<0.00020	0.00014	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	<0.00020	<0.00020	0.00014	0.00013	0.0001	<0.00010	<0.00020	<0.00010
V-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Zn-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050
Zr-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3										
Date		12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	20-Jan-2026	29-Jan-2026	05-Feb-2026
	Sample Clas:	M	M	M	M	M	M	M	M	M
	udf_LabRptI	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980			
Parameter	Unit									
	Stn.Code	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Acidity83	mg/L	11.6	<1.0	4.9	3	<1.0	4.5			
Alk-T	mg/L	480	480	470	480	470	480			
DO-F	mg/L	9.14	8.58	8.54	8.26	8.82	8.4	7.92		
ORP-F	mV	142.4	148.2	154.1	151.7	90.4	164.2	125.2	121	204
pH-F	pH Units	7.1	7.11	7.13	7.14	7.27	7.13	6.91	7.25	7.26
Temp-F	C	8.632	9.156	9.552	8.576	7.76	8.22	6.902	8.9	8.7
Cond-F	uS/cm	2183.8	2138.3	2093.1	2108.3	2104.8	2098.1	1892.8	2147	2053
Br-D	mg/L									
Cl-D	mg/L									
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
DOC	mg/L									
F-D	mg/L									
H2S	mg/L									
Turb-F	NTU	67.27	79.79	78.45	72.67	81.94	74.23	14.05	28.2	22.4
TSS	mg/L	14	16	15	12	11	12			
SO4-D	mg/L	730	720	700	720	670	690			
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000040			
Ag-T	mg/L	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040			
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0060			
Al-T	mg/L	0.0123	0.0422	0.0553	0.0291	0.0225	0.0143			
As-D	mg/L	0.00078	0.00077	0.00084	0.00076	0.00085	0.00078			
As-T	mg/L	0.00177	0.00178	0.00189	0.00205	0.00191	0.00183			
Ba-D	mg/L	0.0196	0.0195	0.02	0.0193	0.0191	0.0195			
Ba-T	mg/L	0.0231	0.022	0.0224	0.0227	0.022	0.0224			
B-D	mg/L	0.99	1.11	1.14	1.03	0.868	1			
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020			
Be-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020			
Bi-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020			
B-T	mg/L	0.900	1.05	1.1	1.04	0.91	1.11			
Ca-D	mg/L	162	159	166	158	162	154			
Ca-T	mg/L	160	158	157	151	150	158			
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020			
Cd-T	mg/L	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020			
Co-D	mg/L	0.00075	0.00078	0.00079	0.00085	0.00095	0.00098			
Co-T	mg/L	0.00072	0.00078	0.00079	0.00091	0.00088	0.00097			
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020			
Cr-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020			
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	0.00022	<0.00040			
Cu-T	mg/L	0.00139	0.0022	0.002	0.002	0.0024	0.002			

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3										
Date		12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	20-Jan-2026	29-Jan-2026	05-Feb-2026
	Sample Clas:	M	M	M	M	M	M	M	M	M
	udf_LabRptI	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980			
Parameter	Unit									
	Stn.Code	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3	SP3
Fe-D	mg/L	1.02	1.07	1.08	0.969	0.755	0.646			
Fe-T	mg/L	5.16	5.48	5.67	5.4	4.72	5.11			
Hard-D	mg/L	496	482	497	474	482	466			
Hard-T	mg/L	473	472	471	455	446	480			
K-D	mg/L	6.10	6.05	6.05	5.73	5.86	5.95			
K-T	mg/L	5.74	5.7	5.75	5.94	5.87	5.87			
Li-D	mg/L	0.0150	0.0158	0.0167	0.0153	0.0135	0.0146			
Li-T	mg/L	0.0142	0.0152	0.0158	0.0166	0.0142	0.0149			
Mg-D	mg/L	22.4	20.6	20.3	19.2	18.9	19.6			
Mg-T	mg/L	17.9	19.1	19.2	18.9	17.2	20.6			
Mn-D	mg/L	0.817	0.811	0.834	0.799	0.785	0.78			
Mn-T	mg/L	0.794	0.804	0.799	0.804	0.792	0.755			
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020			
Mo-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020			
Na-D	mg/L	409	373	374	355	363	362			
Na-T	mg/L	320	353	355	352	337	366			
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0012	<0.0020			
Ni-T	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020			
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040			
Pb-T	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040			
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.0010			
Sb-T	mg/L	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
S-D	mg/L	292	277	281	266	265	276			
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020			
Se-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Si-D	mg/L	3.46	3.21	3.35	3.22	3.04	3.24			
Si-T	mg/L	3.47	3.18	3.25	3.33	3.34	3.52			
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010			
Sn-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010			
Sr-D	mg/L	1.72	1.7	1.72	1.64	1.59	1.64			
Sr-T	mg/L	1.96	1.68	1.65	1.68	1.79	1.66			
S-T	mg/L	285	268	267	264	261	268			
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010			
Ti-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010			
Tl-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020			
Tl-T	mg/L	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020			
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020			
U-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010			
V-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010			
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010			
Zn-T	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010			
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020			
Zr-T	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3										
Date										
Sample Class: udf_LabRptI										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Acidity83	mg/L	20	2.93	2.10	<1.0	11.6	9	1	1.7	3.9
Alk-T	mg/L	19	487	487	460	580	0	475	480	500
DO-F	mg/L	27	8.67	8.63	6.9	10.86	0	8.33	8.82	9.11
ORP-F	mV	29	106.0	119.7	-74.8	204	0	55	148.2	171.3
pH-F	pH Units	29	7.18	7.18	6.91	7.5	0	7.13	7.21	7.26
Temp-F	C	29	8.235	8.208	6.494	9.552	0	7.917	8.27	8.632
Cond-F	uS/cm	29	2228.6	2159.9	446.7	2542.7	0	2117	2365	2455
Br-D	mg/L	7	0.026	0.026	0.023	0.029	0	0.025	0.026	0.027
Cl-D	mg/L	7	11.9	11.8	11	14	0	11	12	12
Carb	mg/L	19	1.00	1.00	<1.0	<1.0	19	1	1	1
DOC	mg/L	2	0.89	0.89	0.83	0.95	0	0.86	0.89	0.92
F-D	mg/L	7	0.0703	0.0696	<0.050	0.077	1	0.07	0.074	0.0755
H2S	mg/L									
Turb-F	NTU	29	70.36	64.75	14.05	108.27	0	60	73.38	86.92
TSS	mg/L	25	15.7	15.2	9.6	24	0	12	15	19
SO4-D	mg/L	23	748	746	670	860	0	720	730	780
Ag-D	mg/L	26	0.0000377	0.0000369	<0.000020	<0.000040	26	4.00E-05	4.00E-05	4.00E-05
Ag-T	mg/L	26	0.0000346	0.0000332	<0.000020	<0.000040	26	2.50E-05	4.00E-05	4.00E-05
Al-D	mg/L	26	0.00565	0.00554	<0.0030	<0.0060	26	0.006	0.006	0.006
Al-T	mg/L	26	0.01931	0.01410	<0.0060	0.0986	5	0.00788	0.014	0.02183
As-D	mg/L	26	0.00072	0.00071	0.00051	0.00086	0	0.00064	0.00075	0.00078
As-T	mg/L	26	0.00178	0.00176	0.00133	0.0023	0	0.0015	0.0018	0.00198
Ba-D	mg/L	26	0.0253	0.0238	0.0191	0.0837	0	0.0201	0.0214	0.0249
Ba-T	mg/L	26	0.0286	0.0273	0.0219	0.0816	0	0.0229	0.0253	0.0284
B-D	mg/L	26	1.052	1.048	0.846	1.25	0	0.992	1.04	1.127
Be-D	mg/L	26	0.000188	0.000185	<0.00010	<0.00020	26	0.0002	0.0002	0.0002
Be-T	mg/L	26	0.000173	0.000166	<0.00010	<0.00020	26	0.000125	0.0002	0.0002
Bi-D	mg/L	26	0.00188	0.00185	<0.0010	<0.0020	26	0.002	0.002	0.002
Bi-T	mg/L	26	0.00173	0.00166	<0.0010	<0.0020	26	0.00125	0.002	0.002
B-T	mg/L	26	1.042	1.037	0.86	1.30	0	1.01	1.05	1.08
Ca-D	mg/L	26	170.8	170.4	154	195	0	162	168.5	177.5
Ca-T	mg/L	26	168.4	167.8	139	196	0	158.5	167.5	178.8
Cd-D	mg/L	26	0.0000201	0.0000196	<0.000010	0.000039	24	2.00E-05	2.00E-05	2.00E-05
Cd-T	mg/L	26	0.0000193	0.0000181	<0.000010	0.00005	22	2.00E-05	2.00E-05	2.00E-05
Co-D	mg/L	26	0.000632	0.000596	<0.00040	0.00122	8	0.0004	0.00064	0.000758
Co-T	mg/L	26	0.000626	0.000593	<0.00040	0.00103	9	0.0004	0.000655	0.000775
Cr-D	mg/L	26	0.00188	0.00185	<0.0010	<0.0020	26	0.002	0.002	0.002
Cr-T	mg/L	26	0.00173	0.00166	<0.0010	<0.0020	26	0.00125	0.002	0.002
Cu-D	mg/L	26	0.000378	0.000371	<0.00020	<0.00040	25	0.0004	0.0004	0.0004
Cu-T	mg/L	26	0.00134	0.00128	0.00083	0.0024	6	0.001	0.00125	0.00147

Attachment 1
River Barrier Pillar Passive Treatment System
Table 5

Settling Pond 3										
Date										
Sample Class: udf_LabRptI										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Fe-D	mg/L	26	0.7770	0.5412	<0.010	1.45	1	0.6228	0.77	1.0775
Fe-T	mg/L	26	6.38	6.11	4.06	11.4	0	5.03	5.58	8.05
Hard-D	mg/L	26	512	511	466	578	0	490	510	532
Hard-T	mg/L	26	505	503	431	584	0	474	502	535
K-D	mg/L	26	6.22	6.21	5.73	7.26	0	6.02	6.14	6.36
K-T	mg/L	26	6.03	6.02	5.52	6.7	0	5.87	6.02	6.18
Li-D	mg/L	26	0.0167	0.0166	0.0128	0.0196	0	0.0159	0.0166	0.0177
Li-T	mg/L	26	0.0167	0.0166	0.0131	0.0200	0	0.0152	0.0166	0.0185
Mg-D	mg/L	26	20.9	20.9	18.9	23.7	0	20.3	20.9	21.7
Mg-T	mg/L	26	20.6	20.5	17.2	25	0	19.6	20.4	21.1
Mn-D	mg/L	26	0.871	0.869	0.78	1.01	0	0.811	0.861	0.908
Mn-T	mg/L	26	0.850	0.848	0.741	0.997	0	0.804	0.84	0.879
Mo-D	mg/L	26	0.00188	0.00185	<0.0010	<0.0020	26	0.002	0.002	0.002
Mo-T	mg/L	26	0.00173	0.00166	<0.0010	<0.0020	26	0.00125	0.002	0.002
Na-D	mg/L	26	371.8	371.4	341	409	0	363	371.5	381.5
Na-T	mg/L	26	365	364	317	426	0	347	364	377
Ni-D	mg/L	26	0.00189	0.00186	<0.0010	<0.0020	25	0.002	0.002	0.002
Ni-T	mg/L	26	0.00174	0.00168	<0.0010	<0.0020	25	0.00147	0.002	0.002
Pb-D	mg/L	26	0.000377	0.000369	<0.00020	<0.00040	26	0.0004	0.0004	0.0004
Pb-T	mg/L	26	0.000346	0.000332	<0.00020	<0.00040	26	0.00025	0.0004	0.0004
Sb-D	mg/L	26	0.000942	0.000923	<0.00050	<0.0010	26	0.001	0.001	0.001
Sb-T	mg/L	26	0.000865	0.000830	<0.00050	<0.0010	26	0.000625	0.001	0.001
S-D	mg/L	26	288.2	287.7	252	320	0	276.2	291	299.5
Se-D	mg/L	26	0.000188	0.000185	<0.00010	<0.00020	26	0.0002	0.0002	0.0002
Se-T	mg/L	26	0.000173	0.000166	<0.00010	<0.00020	26	0.000125	0.0002	0.0002
Si-D	mg/L	26	3.45	3.44	3.04	3.92	0	3.23	3.42	3.67
Si-T	mg/L	26	3.57	3.57	3.18	3.99	0	3.42	3.55	3.73
Sn-D	mg/L	26	0.00942	0.00923	<0.0050	<0.010	26	0.01	0.01	0.01
Sn-T	mg/L	26	0.00865	0.00830	<0.0050	<0.010	26	0.00625	0.01	0.01
Sr-D	mg/L	26	1.80	1.80	1.57	2.05	0	1.71	1.79	1.92
Sr-T	mg/L	26	1.79	1.78	1.44	2.05	0	1.71	1.79	1.88
S-T	mg/L	26	282.3	282.1	261	314	0	275.2	283	290.5
Ti-D	mg/L	26	0.00942	0.00923	<0.0050	<0.010	26	0.01	0.01	0.01
Ti-T	mg/L	26	0.00872	0.00840	<0.0050	<0.010	25	0.0076	0.01	0.01
Tl-D	mg/L	26	0.0000190	0.0000187	<0.000010	<0.000020	25	2.00E-05	2.00E-05	2.00E-05
Tl-T	mg/L	26	0.0000175	0.0000169	<0.000010	<0.000020	25	1.63E-05	2.00E-05	2.00E-05
U-D	mg/L	26	0.000210	0.000201	<0.00010	0.00057	23	0.0002	0.0002	0.0002
U-T	mg/L	26	0.000193	0.000181	<0.00010	0.00053	21	0.0002	0.0002	0.0002
V-D	mg/L	26	0.00942	0.00923	<0.0050	<0.010	26	0.01	0.01	0.01
V-T	mg/L	26	0.00865	0.00830	<0.0050	<0.010	26	0.00625	0.01	0.01
Zn-D	mg/L	26	0.00942	0.00923	<0.0050	<0.010	26	0.01	0.01	0.01
Zn-T	mg/L	26	0.00865	0.00830	<0.0050	<0.010	26	0.00625	0.01	0.01
Zr-D	mg/L	26	0.000188	0.000185	<0.00010	<0.00020	26	0.0002	0.0002	0.0002
Zr-T	mg/L	26	0.000173	0.000166	<0.00010	<0.00020	26	0.000125	0.0002	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025
Sample Class		M	M	M	M	M	M	M	M	M	M	M	M	M
udef_LabRptI		C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Acidity83	mg/L		2.7	13.9	3.7	1.4	9.3	10.5	4.8	4.4	<1.0	<1.0	4.7	4
Alk-T	mg/L	470	460	480	480	430	440	480	480	460	480	470	480	470
DO-F	mg/L		8.39	8.85	8	8.5	9.77	7.52	8.21	8.07	8.11	8.32	8.26	8.39
ORP-F	mV		203.6	152.3	168.7	133.4	178.3	147.6	147.2	152.4	150.4	111.3	164	163.5
pH-F	pH Units		7.15	7.09	7.07	7.08	7.16	7.01	7.08	7.09	7.14	7.11	7.12	7.19
Temp-F	C		8.087	8.434	8.041	8.624	8.297	8.669	9.319	9.67	8.433	8.13	7.8	7.001
Cond-F	uS/cm		2446	2447.1	2033	2109	2142.2	2147.6	2171.6	2112.1	2108	2068.8	2093.4	2099.3
Br-D	mg/L													
Cl-D	mg/L													
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L													
F-D	mg/L													
H2S	mg/L													
Turb-F	NTU		56.8	67.71	70	64	71.07	63.22	70.62	85.04	88.53	67.55	76.35	86.05
TSS	mg/L	11	12	15	16	14	15	15	16	15	14	13	11	12
SO4-D	mg/L	730	740	740	730	770	680	720	710	660	710	680	670	690
Ag-D	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	0.0085	0.0076	0.021	0.0189	0.0325	0.0144	0.0105	0.061	0.0592	0.0323	0.0226	0.0191	0.0112
As-D	mg/L	0.00053	0.00056	0.00063	0.00073	0.00074	0.00074	0.00077	0.00086	0.00079	0.00079	0.00083	0.0008	0.0009
As-T	mg/L	0.00141	0.00141	0.00167	0.00164	0.00183	0.00164	0.00182	0.00178	0.00188	0.00202	0.00195	0.00189	0.00173
Ba-D	mg/L	0.0242	0.0238	0.0201	0.0204	0.0205	0.0201	0.0196	0.0204	0.0193	0.0197	0.0189	0.0194	0.0201
Ba-T	mg/L	0.0267	0.0251	0.0231	0.0225	0.0238	0.0244	0.0237	0.0222	0.0227	0.0223	0.0223	0.0225	0.0204
B-D	mg/L	1.01	1.04	1.01	1.16	1.05	1.17	1.01	1.08	1.11	1.07	0.91	1.02	1.17
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
B-T	mg/L	0.984	0.938	0.949	1.06	0.97	1.27	0.897	1.07	1.14	1.05	0.94	1.14	1.26
Ca-D	mg/L	168	154	154	181	174	166	161	172	152	153	160	152	159
Ca-T	mg/L	163	157	161	161	172	157	162	164	157	146	150	159	144
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000010	0.000012	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Co-D	mg/L	0.00075	0.00067	0.00067	0.00074	0.00076	0.00075	0.00077	0.00078	0.00075	0.00086	0.00102	0.00093	0.00097
Co-T	mg/L	0.00071	0.00069	0.00074	0.0007	0.00076	0.0007	0.00073	0.00079	0.00076	0.00088	0.00091	0.00098	0.00086
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	0.00106	0.00105	0.00128	0.00141	0.0015	0.00142	0.00157	0.002	0.0018	0.002	0.002	0.0023	0.0016

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025
Sample Class:	M	M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Fe-D	mg/L	0.109	0.158	0.774	0.756	0.88	0.719	0.900	1.14	1.04	0.985	0.836	0.654	0.624
Fe-T	mg/L	4.03	4.44	5.95	5.82	5.61	5.47	5.32	5.61	5.77	5.25	4.81	4.99	4.82
Hard-D	mg/L	503	467	466	543	518	507	491	516	461	461	481	457	484
Hard-T	mg/L	487	469	479	487	512	479	479	489	471	440	447	488	439
K-D	mg/L	6.1	5.95	5.85	6.02	5.94	6.17	6.19	6.23	5.91	5.96	5.75	5.87	5.94
K-T	mg/L	6.04	5.71	5.81	5.68	5.92	5.87	5.80	5.76	5.73	5.78	6.01	6	5.49
Li-D	mg/L	0.0158	0.0159	0.0162	0.0166	0.0165	0.0165	0.0151	0.0163	0.016	0.0157	0.0126	0.0143	0.0155
Li-T	mg/L	0.0162	0.0154	0.0159	0.0148	0.0159	0.0159	0.0150	0.0156	0.0159	0.0161	0.0145	0.0147	0.0151
Mg-D	mg/L	20.5	20.1	19.7	21.8	20.2	22.7	21.5	20.9	19.7	19.2	19.8	18.9	21.1
Mg-T	mg/L	19.6	18.9	19	20.5	19.8	21.4	17.8	19.1	19.3	18.2	17.5	22.3	19.2
Mn-D	mg/L	0.872	0.866	0.851	0.868	0.844	0.829	0.821	0.851	0.773	0.797	0.825	0.754	0.783
Mn-T	mg/L	0.852	0.814	0.84	0.811	0.847	0.779	0.795	0.809	0.775	0.792	0.793	0.783	0.67
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Na-D	mg/L	366	347	345	383	360	372	401	383	365	348	383	342	375
Na-T	mg/L	349	335	342	375	352	368	317	348	352	353	337	395	374
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
S-D	mg/L	266	272	265	288	275	289	294	293	265	268	257	267	266
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L	3.19	3.15	3.2	3.46	3.38	3.25	3.40	3.32	3.16	3.2	3.04	3.21	3.53
Si-T	mg/L	3.6	3.46	3.57	3.3	3.53	3.43	3.65	3.28	3.35	3.23	3.32	3.64	3.24
Sn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sr-D	mg/L	1.63	1.77	1.73	1.74	1.82	1.72	1.68	1.75	1.64	1.65	1.44	1.69	1.71
Sr-T	mg/L	1.77	1.66	1.74	1.66	1.88	1.74	1.98	1.65	1.67	1.65	1.78	1.66	1.49
S-T	mg/L	277	259	272	291	283	297	284	270	267	254	261	278	243
Ti-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	0.00014	0.00012	0.00011	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026
Sample Class		M	M	M	M	M	M	M	M	M	M	M	M	M
udef_LabRptI		C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600777	C600995	C601338	C603048	C603048	C603622	C603886
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Acidity83	mg/L	4.4	8.1	1	<1.0	<1.0	<1.0	2.5	5.1	4.5	4.2	5.9	7.1	
Alk-T	mg/L	480	480	470	470	460	470	480	480	480	470	460	470	470
DO-F	mg/L	8.7	7.73	7.69	9.2	9.05	10.12	9.7	9.07	9.69	8.55	8.74	8.77	8.65
ORP-F	mV	184.7	183.2	184.5	211.4	211.9	214.8	277	249	250	139.9	200.5	189.8	219.3
pH-F	pH Units	7.22	7.13	7.12	7.22	7.18	7.14	7.46	7.46	7.44	7.23	7.03	7.01	7.02
Temp-F	C	6.869	7.994	8.035	7.319	7.761	8.128	7.7	7.8	7.8	7.749	8.359	7.464	7.134
Cond-F	uS/cm	2041.5	2021	2011	2025.9	2037.3	2285.1	2266	2265	2267	2109	2221.8	1873.7	1942.8
Br-D	mg/L		0.011		<0.010					0.011	0.013	0.015	<0.010	<0.010
Cl-D	mg/L		7.1		6.2					5.6	5.8	6.4	5.4	5.4
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L													
F-D	mg/L		0.058		0.068					0.074	0.073	0.064	0.079	0.065
H2S	mg/L													
Turb-F	NTU	70.95	71	74.54	59.64	62.83	30.75	61.5	70.8	45.8	64.72	34.29	43.8	38.34
TSS	mg/L	10	9.2	9.2	6.0	7.6	8	8.8	6.8	8	6.8	9.2	8.4	8
SO4-D	mg/L	660	700	640	660	670	650	640	650	650	630	620	660	660
Ag-D	mg/L	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000040
Al-D	mg/L	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0060	<0.0030	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0401	0.0098	0.0051	0.0030	<0.0030	<0.0060	0.0055	0.0134	0.0062	0.0344	0.0065	0.0236	<0.0060
As-D	mg/L	0.00095	0.00091	0.0009	0.00094	0.00101	0.00098	0.00093	0.0009	0.00099	0.00102	0.00115	0.00129	0.00132
As-T	mg/L	0.00196	0.00182	0.00179	0.00183	0.00175	0.00181	0.00161	0.00162	0.00171	0.00196	0.00185	0.00199	0.00188
Ba-D	mg/L	0.0196	0.0186	0.0191	0.0189	0.0194	0.0189	0.0181	0.0177	0.0181	0.0247	0.0205	0.0191	0.0189
Ba-T	mg/L	0.0213	0.0206	0.0196	0.0204	0.0198	0.0212	0.0194	0.0194	0.0199	0.0274	0.0226	0.0192	0.0196
B-D	mg/L	1.27	0.91	1.16	1.18	1.33	1.07	1.14	1.3	0.933	1.13	0.838	0.959	1.23
Be-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
B-T	mg/L	1.3	1.22	0.979	1.08	1.09	1.09	1.14	1.13	0.881	0.91	0.732	0.852	0.97
Ca-D	mg/L	164	147	153	152	159	145	139	149	143	135	136	140	142
Ca-T	mg/L	151	147	140	148	147	152	135	134	139	137	135	136	143
Cd-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	0.000028	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020
Co-D	mg/L	0.00112	0.00118	0.00108	0.00139	0.00139	0.00144	0.00118	0.00112	0.00117	0.00117	0.00093	0.00104	0.00109
Co-T	mg/L	0.00109	0.00104	0.00104	0.00140	0.00137	0.00148	0.00112	0.0011	0.0012	0.00083	0.00094	0.00099	0.0012
Cr-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00189	0.00185	0.0016	0.00153	0.00148	0.0016	0.00141	0.00141	0.0015	0.0011	0.00112	0.00178	0.0014

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026
Sample Class		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI		C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600777	C600995	C601338	C603048	C603048	C603622	C603886
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Fe-D	mg/L	0.335	0.42	0.407	0.311	0.305	0.294	0.203	0.249	0.232	0.595	0.387	1.01	1.13
Fe-T	mg/L	4.24	4.1	3.87	3.22	3.17	3.46	3.14	3.23	3.37	3.95	3.1	4.3	3.6
Hard-D	mg/L	490	441	468	466	482	434	421	446	420	407	409	417	432
Hard-T	mg/L	460	451	423	446	444	455	406	400	408	409	404	402	427
K-D	mg/L	5.99	5.74	5.89	5.81	5.73	5.79	5.76	5.83	5.59	5.47	5.47	5.64	5.62
K-T	mg/L	5.81	5.75	5.65	5.78	5.69	5.97	5.48	5.32	5.22	5.82	5.64	5.34	5.45
Li-D	mg/L	0.0153	0.0138	0.0131	0.0126	0.0129	0.0135	0.0133	0.0136	0.0129	0.015	0.0119	0.0149	0.0134
Li-T	mg/L	0.015	0.0143	0.0127	0.0128	0.0126	0.0142	0.0129	0.0124	0.0124	0.0126	0.0092	0.0117	0.0135
Mg-D	mg/L	19.8	17.9	20.5	20.8	21	17.7	17.6	17.8	15.5	16.9	17.2	16.2	18.6
Mg-T	mg/L	20	20.5	17.8	18.8	18.7	18	16.5	15.8	15	16.5	15.9	15.2	17
Mn-D	mg/L	0.699	0.724	0.696	0.697	0.682	0.7	0.659	0.637	0.7	0.615	0.641	0.712	0.669
Mn-T	mg/L	0.669	0.693	0.655	0.681	0.68	0.724	0.619	0.6	0.686	0.631	0.643	0.629	0.694
Mo-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0020
Na-D	mg/L	383	357	383	378	385	360	373	372	322	360	344	331	375
Na-T	mg/L	368	380	336	362	347	365	354	338	312	336	331	310	350
Ni-D	mg/L	<0.0020	<0.0020	0.0017	0.0021	0.0021	0.0021	0.0017	<0.0020	0.0016	<0.0010	0.0013	0.0014	0.0015
Ni-T	mg/L	0.0015	0.0015	0.0016	0.0021	0.0021	0.0022	0.0016	0.0015	0.0017	<0.0020	0.0012	0.0013	<0.0020
Pb-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040
Sb-D	mg/L	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.0010
S-D	mg/L	270	235	271	263	263	258	257	257	246	236	247	242	264
Se-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	0.00011
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
Si-D	mg/L	3.35	2.88	3.06	2.93	3.03	3.05	2.96	3.25	3.19	3.31	3.22	3.26	3.06
Si-T	mg/L	3.34	3.38	3.13	3.18	3.09	3.26	2.95	2.93	3.21	3.43	3.16	2.83	3.12
Sn-D	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Sr-D	mg/L	1.67	1.42	1.61	1.52	1.62	1.53	1.47	1.44	1.58	1.46	1.44	1.66	1.55
Sr-T	mg/L	1.6	1.6	1.53	1.52	1.5	1.55	1.43	1.42	1.5	1.41	1.45	1.32	1.41
S-T	mg/L	277	273	251	264	259	265	249	243	236	235	246	221	235
Ti-D	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
TI-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
TI-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000020
U-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	0.0001	<0.00020	<0.00010	0.0001	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	0.00012	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020
V-D	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Zn-D	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010
Zr-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026	23-Feb-2026	25-Feb-2026	02-Mar-2026	04-Mar-2026	09-Mar-2026	11-Mar-2026
Sample Class		M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI			C604394	C605538	C605822	C606988	C607575	C609693	C610095	C610796	C611546	C612204	C613064	C613668
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Acidity83	mg/L													
Alk-T	mg/L		460		460		460							
DO-F	mg/L	8.93	8.92	8.63	8.76	8.74	9	7.77	9.07	9.73	9.97	8.36	8.89	9.3
ORP-F	mV	229.8	237.6	200.8	207.3	180.6		43.7	86.9	88.6	225.4	178.1	207.8	172.4
pH-F	pH Units	7.03	6.82	7.04	6.99	7.03	7.1	7.25	7.13	6.95	7.16	7.06	7.19	7.12
Temp-F	C	8.749	8.612	9.208	9.158	8.88	9.107	4.861	7.787	8.473	7.603	8.81	8.056	9.63
Cond-F	uS/cm	1804.3	1780.1	1876.8	1754.7	1822.6	1758.3	1642	1767.4	894.1	1880	2021.1	1793.4	1874
Br-D	mg/L													
Cl-D	mg/L													
Carb	mg/L		<1.0		<1.0		<1.0							
DOC	mg/L													
F-D	mg/L													
H2S	mg/L													
Turb-F	NTU	38.76	19.84	38.32	32	19.03	29.42	27.28	23.54	23.71	24.86	30.1	31.78	43.4
TSS	mg/L													
SO4-D	mg/L		630		570		560		510	560	560	570	560	600
Ag-D	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000057	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0254	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L		<0.0030	0.016	0.0044	0.0053	0.0035	0.0343	<0.0030	0.0071	0.0047	0.0184	0.0105	0.0084
As-D	mg/L		0.0014	0.00137	0.0014	0.00144	0.00156	0.00145	0.00228	0.00157	0.00168	0.00181	0.00183	0.002
As-T	mg/L		0.00187	0.00186	0.00184	0.00192	0.00199	0.00222	0.00138	0.00229	0.00269	0.00275	0.00282	0.0029
Ba-D	mg/L		0.0197	0.0206	0.0204	0.0201	0.0202	0.0327	0.0243	0.0195	0.0212	0.0206	0.0229	0.0223
Ba-T	mg/L		0.02	0.0204	0.0215	0.0207	0.0212	0.0152	0.0214	0.0232	0.0238	0.0231	0.0234	0.0231
B-D	mg/L		0.91	1.09	0.827	1.03	0.98	0.932	0.916	0.829	0.967	0.859	1.02	0.913
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L		0.956	0.843	0.846	0.868	0.854	0.101	0.861	0.899	0.972	0.943	0.853	0.896
Ca-D	mg/L		144	135	132	123	135	107	128	132	137	128	125	133
Ca-T	mg/L		128	140	134	116	130	45.6	126	140	136	138	121	131
Cd-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000079	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L		0.00157	0.00171	0.0019	0.00191	0.00156	0.00067	0.0015	0.00156	0.00134	0.00166	0.00176	0.00158
Co-T	mg/L		0.00148	0.00163	0.00186	0.00188	0.00207	<0.00020	0.00147	0.00156	0.00137	0.00168	0.00159	0.00153
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00136	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00147	0.00161	0.00173	0.00147	0.00147	0.1	<0.00050	0.00149	0.00123	0.00131	0.00117	0.00117

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface														
Date		22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026	09-Feb-2026	19-Feb-2026	23-Feb-2026	25-Feb-2026	02-Mar-2026	04-Mar-2026	09-Mar-2026	11-Mar-2026
Sample Class:	M	M	M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptI			C604394	C605538	C605822	C606988	C607575	C609693	C610095	C610796	C611546	C612204	C613064	C613668
Parameter	Unit													
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35	SP35
Fe-D	mg/L		0.807	0.77	0.886	0.676	0.701	0.0168	2.3	0.82	0.138	0.156	0.117	0.149
Fe-T	mg/L		2.66	2.64	2.47	2.12	2.07	0.304	0.403	2.72	2.65	2.13	2.1	2.23
Hard-D	mg/L		425	404	387	370	399	330	384	394	406	384	372	394
Hard-T	mg/L		385	410	395	353	386	158	376	414	404	407	363	391
K-D	mg/L		5.64	5.18	5.08	5.11	5.3	5.02	5.14	5.2	5.24	5.36	4.97	4.96
K-T	mg/L		5.09	5.39	5.21	4.82	5.12	27.8	5.06	5.31	5.16	5.15	4.87	4.98
Li-D	mg/L		0.0145	0.0127	0.0111	0.014	0.0143	0.0153	0.0126	0.0115	0.015	0.0122	0.0142	0.0137
Li-T	mg/L		0.0132	0.0111	0.011	0.012	0.0124	0.0032	0.0124	0.013	0.0154	0.013	0.0125	0.014
Mg-D	mg/L		15.9	16.2	14	15.3	15	15.5	15.5	15.6	15.4	15.9	14.2	15.3
Mg-T	mg/L		16.2	14.9	14.7	15.3	14.7	10.7	14.6	15.7	15.3	15.1	14.7	15.4
Mn-D	mg/L		0.712	0.654	0.643	0.588	0.631	0.357	0.643	0.638	0.615	0.592	0.634	0.627
Mn-T	mg/L		0.635	0.623	0.606	0.542	0.603	0.0239	0.6	0.674	0.623	0.624	0.603	0.603
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L		307	334	284	321	304	275	299	302	304	324	281	314
Na-T	mg/L		313	308	304	289	288	230	292	315	305	301	282	291
Ni-D	mg/L		0.0021	0.0023	0.0024	0.0029	0.003	<0.0010	0.002	0.0021	0.0019	0.0023	0.0023	0.0021
Ni-T	mg/L		0.0021	0.0022	0.0025	0.0029	0.0029	0.002	0.0019	0.0021	0.002	0.0023	0.0022	0.0021
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00037	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L		229	245	196	216	211	182	207	208	215	221	207	230
Se-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00039	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.22	3.18	3.05	3.03	3.18	3.4	3.33	2.86	3.11	2.71	3.04	3.2
Si-T	mg/L		2.84	3.31	3.24	2.94	3.14	8.92	3.18	3.26	3.19	3.25	3.04	3.34
Sn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L		1.61	1.44	1.36	1.33	1.39	1.05	1.53	1.24	1.32	1.27	1.42	1.47
Sr-T	mg/L		1.37	1.41	1.27	1.23	1.34	0.136	1.33	1.52	1.35	1.35	1.31	1.35
S-T	mg/L		227	223	205	197	209	17.3	217	217	223	212	207	217
Ti-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0056	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TI-D	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
TI-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00055	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0413	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface							
Date		16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
Sample Clas		M	M	M	M	M	M
udf_LabRptI		C614547	C615091		C615992	C616212	C617372
Parameter	Unit						
	Stn.Code	SP3S	SP3S	SP3S	SP3S	SP3S	SP3S
Acidity83	mg/L						
Alk-T	mg/L						
DO-F	mg/L	9.75	9.03	8.36	9.15	9.17	9.62
ORP-F	mV	167.4	131.5	129.3	153.4	36.3	92.6
pH-F	pH Units	6.94	6.91	7.06	6.9	7.11	7.13
Temp-F	C	8.711	9.346	9.298	9.261	9.159	7.864
Cond-F	uS/cm	1809.3	1819.3	1843.1	1809.3	1741.2	1767.8
Br-D	mg/L						
Cl-D	mg/L						
Carb	mg/L						
DOC	mg/L						
F-D	mg/L						
H2S	mg/L						
Turb-F	NTU	27.24	6.38	18.79	24.9	17.24	14.73
TSS	mg/L						
SO4-D	mg/L	560	640		600	610	650
Ag-D	mg/L	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	0.0059		<0.0030	<0.0030	0.007
Al-T	mg/L	0.0222	<0.0030		0.0052	0.007	<0.0030
As-D	mg/L	0.00168	0.00257		0.00197	0.00191	0.00178
As-T	mg/L	0.00236	0.00185		0.00263	0.0025	0.00262
Ba-D	mg/L	0.0206	0.021		0.0209	0.021	0.0219
Ba-T	mg/L	0.0207	0.0211		0.0228	0.0221	0.0219
B-D	mg/L	0.905	1.1		1.05	0.967	0.907
Be-D	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L	0.792	1.06		0.924	1.04	0.856
Ca-D	mg/L	137	121		141	140	152
Ca-T	mg/L	136	130		147	144	140
Cd-D	mg/L	<0.000010	<0.000010		<0.000010	0.00002	<0.000010
Cd-T	mg/L	0.000014	<0.000010		<0.000010	<0.000010	0.000012
Co-D	mg/L	0.00188	0.00207		0.00253	0.00254	0.00277
Co-T	mg/L	0.00185	0.00216		0.00268	0.00271	0.00276
Cr-D	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	0.00162		0.00021	0.0002	<0.00020
Cu-T	mg/L	0.00149	<0.00050		0.00174	0.00189	0.00186

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface							
Date		16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026
Sample Clas		M	M	M	M	M	M
udf_LabRptI		C614547	C615091		C615992	C616212	C617372
Parameter	Unit						
	Stn.Code	SP35	SP35	SP35	SP35	SP35	SP35
Fe-D	mg/L	0.777	2.4		0.722	0.88	0.746
Fe-T	mg/L	2.35	0.843		2.13	2.35	2.5
Hard-D	mg/L		367		422	411	446
Hard-T	mg/L	399	393		439	427	418
K-D	mg/L	4.83	4.76		5.17	4.74	5.01
K-T	mg/L	4.69	5.06		5.41	5.09	5.03
Li-D	mg/L	0.0128	0.0124		0.0118	0.014	0.0132
Li-T	mg/L	0.0099	0.0135		0.013	0.0155	0.0119
Mg-D	mg/L	14.8	15.8		16.9	15.1	16.4
Mg-T	mg/L	14.6	16.4		17.2	16.4	16.7
Mn-D	mg/L	0.651	0.636		0.697	0.686	0.698
Mn-T	mg/L	0.616	0.664		0.727	0.719	0.713
Mo-D	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Na-D	mg/L	286	296		305	287	302
Na-T	mg/L	291	313		311	298	311
Ni-D	mg/L	0.0023	0.003		0.0034	0.0033	0.0035
Ni-T	mg/L	0.0023	0.003		0.0035	0.0036	0.0035
Pb-D	mg/L	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
S-D	mg/L	213	211		232	214	226
Se-D	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.35	2.93		3.34	3.09	3.19
Si-T	mg/L	3.04	3.12		3.55	3.67	3.16
Sn-D	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.52	1.24		1.43	1.52	1.46
Sr-T	mg/L	1.41	1.34		1.56	1.49	1.53
S-T	mg/L	209	221		248	240	220
Ti-D	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface										
Date										
Sample Class: udf_LabRpt1										
Parameter	Unit Stn.Code	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Acidity83	mg/L	25	4.34	3.19	<1.0	13.9	5	1.4	4.2	5.1
Alk-T	mg/L	29	469.0	468.8	430	480	0	460	470	480
DO-F	mg/L	44	8.80	8.78	7.52	10.12	0	8.36	8.77	9.16
ORP-F	mV	43	171.1	160.3	36.3	277	0	147.4	178.1	207.6
pH-F	pH Units	44	7.11	7.11	6.82	7.46	0	7.03	7.11	7.16
Temp-F	C	44	8.254	8.202	4.861	9.67	0	7.797	8.213	8.828
Cond-F	uS/cm	44	1972.8	1952.6	894.1	2447.1	0	1809.3	2021	2109.8
Br-D	mg/L	7	0.0114	0.0113	<0.010	0.015	3	0.01	0.011	0.012
Cl-D	mg/L	7	6.0	6.0	5.4	7.1	0	5.5	5.8	6.3
Carb	mg/L	29	1.00	1.00	<1.0	<1.0	29	1	1	1
DOC	mg/L									
F-D	mg/L	7	0.069	0.068	0.058	0.079	0	0.065	0.068	0.073
H2S	mg/L									
Turb-F	NTU	44	47.44	41.09	6.38	88.53	0	27.27	43.6	68.28
TSS	mg/L	26	11.0	10.5	6.0	16	0	8.1	10.5	14
SO4-D	mg/L	40	647	644	510	770	0	607	650	682
Ag-D	mg/L	43	0.0000279	0.0000263	<0.000020	<0.000040	43	2.00E-05	2.00E-05	4.00E-05
Ag-T	mg/L	43	0.0000255	0.0000241	<0.000020	0.000057	42	2.00E-05	2.00E-05	3.00E-05
Al-D	mg/L	43	0.00487	0.00430	<0.0030	0.0254	40	0.003	0.003	0.006
Al-T	mg/L	43	0.01489	0.01013	<0.0030	0.061	7	0.00525	0.0085	0.02005
As-D	mg/L	43	0.00122	0.00113	0.00053	0.00257	0	0.00085	0.00101	0.00156
As-T	mg/L	43	0.00197	0.00194	0.00138	0.0029	0	0.00177	0.00186	0.002
Ba-D	mg/L	43	0.0207	0.0205	0.0177	0.0327	0	0.0193	0.0201	0.0209
Ba-T	mg/L	43	0.0218	0.0217	0.0152	0.0274	0	0.0204	0.0219	0.0231
B-D	mg/L	43	1.034	1.026	0.827	1.33	0	0.924	1.02	1.12
Be-D	mg/L	43	0.000140	0.000132	<0.00010	<0.00020	43	0.0001	0.0001	0.0002
Be-T	mg/L	43	0.000123	0.000117	<0.00010	<0.00020	43	0.0001	0.0001	0.0001
Bi-D	mg/L	43	0.00140	0.00132	<0.0010	<0.0020	43	0.001	0.001	0.002
Bi-T	mg/L	43	0.00123	0.00117	<0.0010	<0.0020	43	0.001	0.001	0.001
B-T	mg/L	43	0.968	0.929	0.101	1.3	0	0.875	0.956	1.075
Ca-D	mg/L	43	145.6	144.8	107	181	0	135	144	154
Ca-T	mg/L	43	141.4	139.4	45.6	172	0	135	140	151.5
Cd-D	mg/L	43	0.0000142	0.0000134	<0.000010	0.00002	42	1.00E-05	1.00E-05	2.00E-05
Cd-T	mg/L	43	0.0000145	0.0000128	<0.000010	0.000079	38	1.00E-05	1.00E-05	2.00E-05
Co-D	mg/L	43	0.00131	0.00121	0.00067	0.00277	0	0.00082	0.00117	0.00162
Co-T	mg/L	43	0.001290	0.001163	<0.00020	0.00276	1	0.000845	0.00112	0.001575
Cr-D	mg/L	43	0.00140	0.00132	<0.0010	<0.0020	43	0.001	0.001	0.002
Cr-T	mg/L	43	0.00123	0.00117	<0.0010	<0.0020	43	0.001	0.001	0.001
Cu-D	mg/L	43	0.000339	0.000289	<0.00020	0.00162	39	0.0002	0.0002	0.0004
Cu-T	mg/L	43	0.003785	0.001588	<0.00050	0.1	2	0.001355	0.00149	0.00176

Attachment 1
River Barrier Pillar Passive Treatment System
Table 6

Settling Pond 3 Surface										
Date										
Sample Class: udf_LabRptI										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Fe-D	mg/L	43	0.6631	0.4851	0.0168	2.4	0	0.2995	0.701	0.858
Fe-T	mg/L	43	3.472	3.031	0.304	5.95	0	2.41	3.23	4.625
Hard-D	mg/L	42	437	435	330	543	0	404	433	467
Hard-T	mg/L	43	423	418	158	512	0	401	423	457
K-D	mg/L	43	5.56	5.54	4.74	6.23	0	5.17	5.64	5.9
K-T	mg/L	43	5.99	5.67	4.69	27.8	0	5.16	5.49	5.79
Li-D	mg/L	43	0.0141	0.0140	0.0111	0.0166	0	0.0129	0.014	0.0153
Li-T	mg/L	43	0.0134	0.0130	0.0032	0.0162	0	0.0124	0.0132	0.0151
Mg-D	mg/L	43	17.8	17.7	14	22.7	0	15.6	17.6	20
Mg-T	mg/L	43	17.1	17.0	10.7	22.3	0	15.3	16.7	18.9
Mn-D	mg/L	43	0.704	0.696	0.357	0.872	0	0.639	0.697	0.778
Mn-T	mg/L	43	0.6782	0.6372	0.0239	0.852	0	0.623	0.674	0.777
Mo-D	mg/L	43	0.00140	0.00132	<0.0010	<0.0020	43	0.001	0.001	0.002
Mo-T	mg/L	43	0.00127	0.00120	<0.0010	0.0025	42	0.001	0.001	0.0015
Na-D	mg/L	43	339	337	275	401	0	304	344	372
Na-T	mg/L	43	328	326	230	395	0	306	335	352
Ni-D	mg/L	43	0.00210	0.00204	<0.0010	0.0035	18	0.002	0.002	0.0022
Ni-T	mg/L	43	0.00199	0.00188	<0.0010	0.0036	15	0.00155	0.002	0.0022
Pb-D	mg/L	43	0.000279	0.000263	<0.00020	<0.00040	43	0.0002	0.0002	0.0004
Pb-T	mg/L	43	0.000250	0.000238	<0.00020	<0.00040	42	0.0002	0.0002	0.000285
Sb-D	mg/L	43	0.000698	0.000658	<0.00050	<0.0010	43	0.0005	0.0005	0.001
Sb-T	mg/L	43	0.000616	0.000587	<0.00050	<0.0010	43	0.0005	0.0005	0.0005
S-D	mg/L	43	245	243	182	294	0	218	247	266
Se-D	mg/L	43	0.000140	0.000132	<0.00010	<0.00020	42	0.0001	0.0001	0.0002
Se-T	mg/L	43	0.000130	0.000121	<0.00010	0.00039	42	0.0001	0.0001	0.00015
Si-D	mg/L	43	3.17	3.16	2.71	3.53	0	3.05	3.19	3.29
Si-T	mg/L	43	3.39	3.33	2.83	8.92	0	3.13	3.25	3.41
Sn-D	mg/L	43	0.00698	0.00658	<0.0050	<0.010	43	0.005	0.005	0.01
Sn-T	mg/L	43	0.00616	0.00587	<0.0050	<0.010	43	0.005	0.005	0.005
Sr-D	mg/L	43	1.52	1.51	1.05	1.82	0	1.44	1.52	1.65
Sr-T	mg/L	43	1.485	1.426	0.136	1.98	0	1.36	1.5	1.65
S-T	mg/L	43	239.5	228.8	17.3	297	0	220.5	243	266
Ti-D	mg/L	43	0.00698	0.00658	<0.0050	<0.010	43	0.005	0.005	0.01
Ti-T	mg/L	43	0.00618	0.00589	<0.0050	<0.010	42	0.005	0.005	0.0053
Tl-D	mg/L	43	0.0000140	0.0000132	<0.000010	<0.000020	43	1.00E-05	1.00E-05	2.00E-05
Tl-T	mg/L	43	0.0000123	0.0000117	<0.000010	<0.000020	43	1.00E-05	1.00E-05	1.00E-05
U-D	mg/L	43	0.000140	0.000132	<0.00010	<0.00020	40	0.0001	0.0001	0.0002
U-T	mg/L	43	0.000136	0.000125	<0.00010	0.00055	38	0.0001	0.0001	0.00017
V-D	mg/L	43	0.00698	0.00658	<0.0050	<0.010	43	0.005	0.005	0.01
V-T	mg/L	43	0.00616	0.00587	<0.0050	<0.010	43	0.005	0.005	0.005
Zn-D	mg/L	43	0.00698	0.00658	<0.0050	<0.010	43	0.005	0.005	0.01
Zn-T	mg/L	43	0.00701	0.00617	<0.0050	0.0413	42	0.005	0.005	0.0075
Zr-D	mg/L	43	0.000140	0.000132	<0.00010	<0.00020	43	0.0001	0.0001	0.0002
Zr-T	mg/L	43	0.000124	0.000119	<0.00010	<0.00020	42	0.0001	0.0001	0.000125

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock Channel													
Date		03-Dec-2025	03-Dec-2025	04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025
	udf_LabRptNc	C598701		C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029
Parameter	Unit												
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Acidity83	mg/L					<1.0	2.2	1.2	2.2	<1.0	2.5	7.4	5.4
Alk-T	mg/L					480	460	480	480	470	460	470	480
DO-F	mg/L		9.92	10.57	9.66	9.35	9.76	9.66	9.54	9.49	9.62	10.08	9.02
ORP-F	mV		178.5	188.4	187.2	193.9	165.8	154.4	170.1	96.3	186.6	139.6	147.8
pH-F	pH Units		7.28	7.25	7.29	7.25	7.3	7.16	7.21	7.24	7.07	7.21	7.18
Temp-F	C		7.824	8.07	8.06	7.861	8	8.362	7.811	8.601	8.095	8.511	9.1
Cond-F	uS/cm		2462.3	2407.3	2453	2437.7	2435.3	2454.2	2108.3	2097	2180.9	2151.5	2156.8
Br-D	mg/L												
Cl-D	mg/L												
Carb	mg/L					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L												
F-D	mg/L												
H2S	mg/L												
Turb-F	NTU		37.26	34.18	34.66		29.57	49.32	49.83		58.87	63.66	69.04
TSS	mg/L	7.6		7.2		7.6	<1.0	12	9.6	11	12	11	13
SO4-D	mg/L	750		780		710	780	780	700	780	710	740	720
Ag-D	mg/L	<0.000040		<0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L	<0.000040		<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000040	<0.000040
Al-D	mg/L	<0.0060		<0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L	<0.0060		0.0134	0.0186	0.0092	0.0084	0.0165	0.0176	0.0281	0.0186	0.0087	0.0287
As-D	mg/L	0.00048		0.00046	0.0005	0.00045	0.00044	0.00053	0.00059	0.00065	0.00065	0.00068	0.00069
As-T	mg/L	0.00096		0.00116	0.00092	0.00101	0.00102	0.00135	0.0013	0.00161	0.00145	0.00143	0.00161
Ba-D	mg/L	0.0288		0.0278	0.028	0.0279	0.0282	0.0238	0.0225	0.0222	0.0218	0.0213	0.0211
Ba-T	mg/L	0.0300		0.0340	0.0277	0.0293	0.0279	0.0258	0.0239	0.0261	0.0244	0.0234	0.0248
B-D	mg/L	1.23		1.09	1.12	1.02	1.11	1.11	1.14	1.03	1.15	1.01	1.12
Be-D	mg/L	<0.00020		<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L	<0.00020		<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00020
Bi-D	mg/L	<0.0020		<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L	<0.0020		<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
B-T	mg/L	1.19		1.21	0.97	0.94	0.961	0.994	1.04	1.08	1.22	0.97	1.1
Ca-D	mg/L	170		160	164	165	157	158	174	172	156	163	158
Ca-T	mg/L	167		188	151	159	159	164	161	179	159	156	172
Cd-D	mg/L	<0.000020		<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L	<0.000020		<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000020	<0.000020
Co-D	mg/L	0.00046		0.00055	0.00055	0.00067	0.00064	0.00068	0.00071	0.00072	0.00073	0.00074	0.00075
Co-T	mg/L	0.00044		0.00061	0.00051	0.00063	0.00065	0.00073	0.00065	0.00075	0.00067	0.00071	0.00076
Cr-D	mg/L	<0.0020		<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L	<0.0020		<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
Cu-D	mg/L	<0.00040		<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L	<0.0010		<0.0010	<0.0010	0.00072	0.00077	0.00116	0.00124	0.0012	0.00172	0.0014	0.0017

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock Channel													
Date		03-Dec-2025	03-Dec-2025	04-Dec-2025	05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025
	udf_LabRptNc	C598701		C599039	C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029
Parameter	Unit												
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Fe-D	mg/L	0.067		0.104	0.0382	0.023	0.044	0.5	0.424	0.583	0.524	0.744	0.737
Fe-T	mg/L	2.96		3.38	2.82	2.6	2.7	4.3	4.31	4.7	4.78	4.37	4.69
Hard-D	mg/L	512		489	496	498	473	478	522	510	479	498	479
Hard-T	mg/L	506		568	456	474	476	487	484	530	483	465	513
K-D	mg/L	6.35		6.19	6.05	6.24	6.12	6.02	5.95	5.98	6.1	6.16	5.97
K-T	mg/L	6.15		6.80	5.51	5.78	5.88	5.99	5.6	6.11	5.67	5.73	6.06
Li-D	mg/L	0.0181		0.0162	0.0158	0.0154	0.0165	0.0172	0.0164	0.0159	0.0163	0.0149	0.0155
Li-T	mg/L	0.0178		0.0183	0.0144	0.0155	0.0154	0.0163	0.0147	0.0172	0.0159	0.0150	0.0161
Mg-D	mg/L	21.5		21.5	21.2	20.9	19.9	20.3	21.2	19.8	22	22.2	20.3
Mg-T	mg/L	21.4		23.8	19.4	19	19.1	19.2	20.1	20.2	21.2	18.3	20.2
Mn-D	mg/L	0.818		0.766	0.772	0.842	0.813	0.87	0.817	0.822	0.804	0.799	0.778
Mn-T	mg/L	0.779		0.885	0.709	0.775	0.78	0.839	0.774	0.859	0.752	0.776	0.804
Mo-D	mg/L	<0.0020		<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L	<0.0020		<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
Na-D	mg/L	388		370	364	375	361	355	389	360	367	409	368
Na-T	mg/L	375		418	366	334	343	351	356	374	350	324	363
Ni-D	mg/L	<0.0020		<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	<0.0020		<0.0020	<0.0020	0.0013	<0.0010	0.0011	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020
Pb-D	mg/L	<0.00040		<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L	<0.00040		<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040
Sb-D	mg/L	<0.0010		<0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L	<0.0010		<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	<0.0010
S-D	mg/L	290		287	305	284	272	274	284	276	282	294	275
Se-D	mg/L	<0.00020		<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L	<0.00020		<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00020
Si-D	mg/L	3.43		3.18	3.23	3.2	3.27	3.28	3.35	3.43	3.13	3.44	3.15
Si-T	mg/L	3.48		4.02	3.13	3.46	3.46	3.54	3.26	3.58	3.39	3.37	3.49
Sn-D	mg/L	<0.010		<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L	<0.010		<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010
Sr-D	mg/L	1.72		1.73	1.72	1.63	1.77	1.78	1.7	1.88	1.69	1.66	1.7
Sr-T	mg/L	1.67		2.00	1.55	1.67	1.67	1.76	1.66	2	1.74	1.76	1.73
S-T	mg/L	279		318	257	269	266	273	277	290	293	287	283
Ti-D	mg/L	<0.010		<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L	<0.010		<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010
Tl-D	mg/L	<0.000020		<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Tl-T	mg/L	<0.000020		<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000020	<0.000020
U-D	mg/L	<0.00020		<0.00020	0.00016	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L	<0.00020		<0.00020	<0.00020	0.00016	0.00014	0.00012	0.00011	<0.00020	<0.00010	<0.00020	<0.00020
V-D	mg/L	<0.010		<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L	<0.010		<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010
Zn-D	mg/L	<0.010		<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L	<0.010		<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010
Zr-D	mg/L	<0.00020		<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L	<0.00020		<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock		15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	06-Jan-2026	07-Jan-2026
Date	udf_LabRptNc	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600460	C600777	C600995
Parameter	Unit														
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Acidity83	mg/L	4.2	4.2	<1.0	12.8	3.4	4.7	5.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	4.1
Alk-T	mg/L	470	470	470	480	470	470	480	470	470	460	470	470	470	480
DO-F	mg/L	8.74	8.56	8.84	8.78	8.6	8.86	8.78	8.58	9.48	9.48	10.44		10.24	10.17
ORP-F	mV	153.9	150.5	158.1	162.8	161.4	185.5	188	184.7	210.1	209.1	220.1		227.6	221
pH-F	pH Units	7.18	7.23	7.24	7.24	7.31	7.31	7.31	7.33	7.35	7.34	6.95		7.23	7.21
Temp-F	C	9.703	8.505	8.12	8.21	6.575	7.288	7.532	7.584	7.408	8.163	8.272		6.938	7.645
Cond-F	uS/cm	2087.9	2075.5	2076.2	2086.1	2051.8	2023.6	2054.5	2024.4	2015.8	2027	2292.3		2308.3	2263
Br-D	mg/L							0.011		<0.010					
Cl-D	mg/L							7.1		6.3					
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L														
F-D	mg/L							<0.050		0.069					
H2S	mg/L														
Turb-F	NTU	79.62	74.92	69.71	72.9	71.02	68.44	63.07	67.57	51.1	56.39	23.07		28.18	33.11
TSS	mg/L	14	11	10	10	9.2	12	7.6	7.6	5.2	6	6.4	6.8	8	6.4
SO4-D	mg/L	690	710	660	690	680	680	680	670	670	680	630	660	630	650
Ag-D	mg/L	<0.000040	<0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0060	<0.0060	0.0052	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0060
Al-T	mg/L	0.0604	0.0674	0.0249	0.0176	0.0115	0.0344	0.0103	0.0039	0.0033	0.0038	<0.0060	0.0077	0.0066	0.0116
As-D	mg/L	0.00071	0.00067	0.0009	0.00068	0.00077	0.00086	0.00088	0.00083	0.00086	0.00088	0.00089	0.00095	0.00086	0.00079
As-T	mg/L	0.00172	0.00175	0.00177	0.00168	0.00163	0.00193	0.00154	0.00169	0.00166	0.00167	0.00172	0.0018	0.00142	0.00145
Ba-D	mg/L	0.0217	0.0212	0.0203	0.0207	0.0217	0.02	0.0199	0.0199	0.0199	0.0199	0.0196	0.0202	0.0192	0.0186
Ba-T	mg/L	0.0224	0.0237	0.0236	0.0232	0.0221	0.022	0.0202	0.0218	0.0217	0.0208	0.0217	0.0239	0.0201	0.0199
B-D	mg/L	1.14	1.04	0.893	1	1.21	1.24	0.94	1.11	1.19	1.26	1.1	0.964	1.18	1.35
Be-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Be-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Bi-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
B-T	mg/L	1.06	1.02	0.94	1.11	1.29	1.13	1.23	1.07	1.10	1.08	1.09	0.855	1.14	1.12
Ca-D	mg/L	164	155	164	156	156	158	149	151	153	155	145	147	139	147
Ca-T	mg/L	146	147	152	153	157	152	144	146	145	143	152	156	132	131
Cd-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
Co-D	mg/L	0.00076	0.00081	0.00092	0.0009	0.00093	0.00109	0.00109	0.00103	0.00131	0.00128	0.00131	0.00111	0.00109	0.00103
Co-T	mg/L	0.00071	0.00087	0.00086	0.00094	0.00084	0.00103	0.00093	0.00106	0.00133	0.00128	0.00137	0.00121	0.00106	0.00104
Cr-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00040	<0.00040	0.00036	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Cu-T	mg/L	0.0018	0.0023	0.0017	0.0023	0.0017	0.00188	0.00152	0.00155	0.00140	0.00136	0.0016	0.00151	0.00122	0.00139

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock		15-Dec-2025	16-Dec-2025	17-Dec-2025	18-Dec-2025	19-Dec-2025	22-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	06-Jan-2026	07-Jan-2026
Date	udf_LabRptNm	C5A1034	C5A1303	C5A1649	C5A1980	C5A2125	C5A2413	C5A2568	C600035	C600037	C600041	C600038	C600460	C600777	C600995
Parameter	Unit														
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Fe-D	mg/L	0.698	0.723	1.04	0.486	0.439	0.238	0.282	0.285	0.178	0.198	0.203	0.162	0.12	0.155
Fe-T	mg/L	4.98	4.56	4.07	4.34	4.32	4.31	3.42	3.59	2.88	2.93	3.1	2.92	2.63	2.72
Hard-D	mg/L	492	464	490	466	475	480	445	463	465	473	437	432	418	440
Hard-T	mg/L	438	442	456	470	477	459	439	448	441	432	455	459	399	393
K-D	mg/L	5.99	5.9	6.14	5.87	5.99	5.89	5.8	5.94	5.74	5.71	5.76	5.5	5.63	5.71
K-T	mg/L	5.4	5.74	6.17	5.74	5.87	5.74	5.5	6.11	5.90	5.59	5.85	6.1	5.5	5.36
Li-D	mg/L	0.0164	0.0154	0.0129	0.0142	0.0157	0.0151	0.0139	0.0132	0.0126	0.0125	0.0128	0.0135	0.0132	0.0134
Li-T	mg/L	0.0149	0.0157	0.0144	0.0146	0.0155	0.014	0.0136	0.0132	0.0130	0.0125	0.014	0.012	0.0127	0.0125
Mg-D	mg/L	20.2	18.7	19.4	18.6	20.4	20.6	17.7	20.8	20.3	21	18.4	15.6	17.4	17.8
Mg-T	mg/L	18	18.1	18.2	21	20.3	19.3	19.2	19.9	18.8	18.3	18.3	16.9	16.5	15.9
Mn-D	mg/L	0.81	0.755	0.789	0.726	0.754	0.695	0.695	0.675	0.646	0.658	0.668	0.626	0.618	0.592
Mn-T	mg/L	0.736	0.747	0.789	0.731	0.684	0.634	0.633	0.706	0.665	0.633	0.684	0.695	0.589	0.577
Mo-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010
Na-D	mg/L	365	345	369	336	387	378	358	375	387	395	368	317	360	365
Na-T	mg/L	332	342	340	376	394	358	351	374	364	354	361	351	350	345
Ni-D	mg/L	<0.0020	<0.0020	0.0012	<0.0020	<0.0020	<0.0020	<0.0020	0.0016	0.0020	0.0019	0.002	0.0016	0.0016	<0.0020
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0015	0.0014	0.0017	0.0021	0.002	0.0021	0.0018	0.0015	0.0015
Pb-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
Sb-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050
S-D	mg/L	277	265	273	267	267	274	252	269	262	260	251	254	254	254
Se-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.26	3.17	3.09	3.23	3.47	3.21	2.91	3.06	2.94	2.95	3.11	3.12	2.98	3.19
Si-T	mg/L	3.09	3.34	3.37	3.38	3.38	3.28	3.26	3.18	3.02	3.11	3.24	3.44	2.9	2.82
Sn-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Sn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.71	1.61	1.56	1.59	1.7	1.64	1.45	1.57	1.53	1.58	1.53	1.72	1.47	1.44
Sr-T	mg/L	1.53	1.63	1.8	1.62	1.58	1.59	1.51	1.6	1.54	1.49	1.6	1.84	1.41	1.38
S-T	mg/L	250	255	267	269	256	273	266	280	266	256	262	264	249	239
Ti-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Ti-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
TI-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020
TI-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	<0.00020
U-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0001	0.0001	<0.00010	<0.00010	<0.00010	<0.00020	0.00011	<0.00010	<0.00010
V-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
V-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020
Zr-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock											
Date		08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026
udf_LabRptNc		C601338	C603048	C603048	C603622	C603886		C604394	C605538	C605822	C606988
Parameter	Unit										
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Acidity83	mg/L	1.5	3.1	3.9	3.6						
Alk-T	mg/L	480	470	470	480	470		460		470	
DO-F	mg/L	10.61	10.19	10.18	9.75	9.77	9.98	10.13	10	9.97	10.42
ORP-F	mV	152.1	147.5	211.4	201.8	223.8	231.5	240.8	201.7	209.3	178.1
pH-F	pH Units	7.28	7.25	6.9	6.98	7.04	7.01	6.77	7.13	7.01	7.05
Temp-F	C	7.191	7.99	7.816	7.892	7.85	8.704	8.449	9.115	7.434	8.73
Cond-F	uS/cm	2275.9	2115.3	2207.4	1882.9	1939.1	1807	1776.9	1881.9	1701.3	1815.3
Br-D	mg/L	0.014	0.012	0.013	<0.010	0.01				0.01	
Cl-D	mg/L	5.9	5.4	5.7	5.3	5.9				5	
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	
DOC	mg/L										
F-D	mg/L	0.075	0.071	0.064	0.079	0.057				0.075	
H2S	mg/L										
Turb-F	NTU	36.75	53.67	35.12	40.64	29.47	25.83	15.19	32.85	25.73	22.21
TSS	mg/L	6.8	6	6	7.2	8		5.6	6	4.8	3.6
SO4-D	mg/L	660	640	630	670	660		640		560	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040		<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0034	0.0275	0.0137	0.0054	<0.0060		0.0037	0.0127	0.005	0.0244
As-D	mg/L	0.00089	0.00083	0.001	0.00117	0.00119		0.00125	0.00123	0.00133	0.00139
As-T	mg/L	0.00149	0.00152	0.00167	0.00149	0.00163		0.00177	0.00167	0.00174	0.00186
Ba-D	mg/L	0.0192	0.0273	0.0221	0.0202	0.0198		0.0204	0.0209	0.0209	0.021
Ba-T	mg/L	0.0197	0.0293	0.0245	0.0186	0.0198		0.0211	0.0207	0.0215	0.0211
B-D	mg/L	0.942	0.84	0.835	0.961	1.25		0.935	1.03	0.862	1.07
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L	0.873	0.756	0.778	0.865	0.98		0.99	0.858	0.828	0.867
Ca-D	mg/L	141	132	137	152	142		144	134	133	126
Ca-T	mg/L	134	135	143	131	142		132	133	132	115
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	0.000013
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020		<0.000010	0.000013	<0.000010	<0.000010
Co-D	mg/L	0.0011	0.00067	0.00086	0.001	0.00103		0.00151	0.00168	0.00183	0.00188
Co-T	mg/L	0.00109	0.00071	0.00092	0.00093	0.00112		0.00146	0.00162	0.00177	0.00184
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00121	0.00086	0.00103	0.00135	0.0014		0.00142	0.0015	0.00162	0.00161

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock											
Date		08-Jan-2026	17-Jan-2026	19-Jan-2026	20-Jan-2026	21-Jan-2026	22-Jan-2026	26-Jan-2026	29-Jan-2026	02-Feb-2026	05-Feb-2026
udf_LabRptNc		C601338	C603048	C603048	C603622	C603886		C604394	C605538	C605822	C606988
Parameter	Unit										
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Fe-D	mg/L	0.146	0.414	0.263	0.847	0.912		0.644	0.625	0.774	0.586
Fe-T	mg/L	2.64	2.82	2.7	2.74	3.13		2.39	2.34	2.26	1.96
Hard-D	mg/L	416	399	413	449	431		423	400	389	378
Hard-T	mg/L	395	401	426	388	425		401	396	390	352
K-D	mg/L	5.42	5.43	5.5	5.79	5.58		5.65	5.27	5	5.23
K-T	mg/L	5.15	5.44	5.8	5.17	5.42		5.21	5.23	5.16	4.88
Li-D	mg/L	0.013	0.0123	0.0119	0.0148	0.0132		0.0144	0.0125	0.0114	0.0141
Li-T	mg/L	0.0122	0.0102	0.0101	0.0119	0.0137		0.0129	0.0111	0.0114	0.012
Mg-D	mg/L	15.4	16.5	17.2	17.2	18.6		15.6	15.8	13.6	15.2
Mg-T	mg/L	14.8	15.3	16.6	14.5	17.1		17.5	15.6	14.7	15.5
Mn-D	mg/L	0.657	0.567	0.6	0.686	0.646		0.69	0.629	0.628	0.574
Mn-T	mg/L	0.631	0.573	0.633	0.595	0.676		0.633	0.618	0.597	0.534
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L	323	327	339	339	374		310	330	274	320
Na-T	mg/L	308	309	342	309	354		331	319	309	292
Ni-D	mg/L	0.0015	<0.0010	0.0013	0.0014	0.0015		0.0021	0.0022	0.0024	0.0029
Ni-T	mg/L	0.0016	<0.0010	0.0012	0.0012	<0.0020		0.002	0.0022	0.0024	0.0028
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010		<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L	245	231	246	251	258		234	241	201	216
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.15	3.28	3.17	3.36	3.1		3.28	3.16	3.17	3.12
Si-T	mg/L	2.93	3.31	3.35	2.65	3.08		2.95	3.21	3.19	2.86
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.6	1.41	1.45	1.61	1.51		1.54	1.38	1.39	1.31
Sr-T	mg/L	1.48	1.4	1.51	1.27	1.42		1.4	1.4	1.27	1.21
S-T	mg/L	234	227	249	215	254		237	226	201	202
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050
Ti-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010
Ti-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020		<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	0.00011	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock														
Date	udf_LabRptN	09-Feb-2026 C607575	23-Feb-2026 C610095	25-Feb-2026 C610796	02-Mar-2026 C611546	04-Mar-2026 C612204	09-Mar-2026 C613064	11-Mar-2026 C613668	16-Mar-2026 C614547	18-Mar-2026 C615091	19-Mar-2026	23-Mar-2026 C615992	25-Mar-2026 C616212	30-Mar-2026 C617372
Parameter	Unit													
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Acidity83	mg/L													
Alk-T	mg/L	460												
DO-F	mg/L		9.87	10.26	8.9	10.01	9.87	10.17	10.1	9.78	9.17	10.23	9.85	10.74
ORP-F	mV		143.3	132.2	212	186.2	218.9	187.7	180.6	150.3	149.3	182.4	47.8	131.9
pH-F	pH Units		7.18	7.08	7.08	7.21	7.3	7.27	7.06	7.04	7.18	7.02	7.24	7.28
Temp-F	C	9.13	7.97	8.391	7.472	8.68	8.205	7.612	8.723	9.261	9.364	9.225	8.713	7.675
Cond-F	uS/cm		1753.2	1881.9	1889.5	2011.2	1783.5	1868	1798	1809.4	1838	1807	1731.2	1741.3
Br-D	mg/L													
Cl-D	mg/L													
Carb	mg/L	<1.0												
DOC	mg/L													
F-D	mg/L													
H2S	mg/L													
Turb-F	NTU		17.31	17.67	37.25	25.04	26.83	31.7	28.15	19.12	11.82	20.6	19.48	13.19
TSS	mg/L	4.8	3.2	1.6	4.4	3.6	4.4	3.6	4.8			5.2	3.2	4
SO4-D	mg/L	560	540	550	610	590	600	590	570	650		560	600	620
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0041	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030
Al-T	mg/L	0.0034	0.0213	0.0056	0.0044	0.0142	0.0107	0.0072	0.0279	0.0064		0.0066	0.0055	0.0033
As-D	mg/L	0.00148	0.00124	0.00127	0.00136	0.00134	0.00146	0.00161	0.00142	0.00153		0.00173	0.00167	0.00156
As-T	mg/L	0.00196	0.0017	0.00176	0.00212	0.002	0.00217	0.00224	0.00201	0.00212		0.00233	0.00214	0.00232
Ba-D	mg/L	0.0212	0.0241	0.0206	0.0221	0.0214	0.0244	0.0242	0.0215	0.0207		0.0217	0.0213	0.0204
Ba-T	mg/L	0.0222	0.0242	0.0227	0.0236	0.0227	0.0239	0.0239	0.0216	0.0224		0.0232	0.0227	0.0212
B-D	mg/L	0.953	0.907	0.834	0.955	0.869	0.986	0.936	0.895	1.1		1.05	0.972	0.878
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L	0.897	0.864	0.856	0.985	0.923	0.822	0.904	0.789	1.02		0.897	1.05	0.855
Ca-D	mg/L	137	132	133	136	132	123	136	136	125		145	137	157
Ca-T	mg/L	132	129	132	134	127	126	130	142	128		151	145	138
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	0.000019	<0.000010
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000011		<0.000010	<0.000010	0.000012
Co-D	mg/L	0.00213	0.00139	0.00146	0.00119	0.00139	0.00154	0.00142	0.00171	0.00195		0.00239	0.00242	0.00263
Co-T	mg/L	0.00201	0.00133	0.00134	0.00123	0.00145	0.00137	0.00136	0.00171	0.00196		0.00254	0.00261	0.00266
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0004	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Cu-T	mg/L	0.00144	0.00109	0.00116	0.00113	0.00106	0.00093	0.00095	0.0012	0.00136		0.00154	0.00171	0.00169

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock														
Date	udf_LabRptNc	09-Feb-2026 C607575	23-Feb-2026 C610095	25-Feb-2026 C610796	02-Mar-2026 C611546	04-Mar-2026 C612204	09-Mar-2026 C613064	11-Mar-2026 C613668	16-Mar-2026 C614547	18-Mar-2026 C615091	19-Mar-2026	23-Mar-2026 C615992	25-Mar-2026 C616212	30-Mar-2026 C617372
Parameter	Unit													
	Stn.Code	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C	SP3C
Fe-D	mg/L	0.588	0.225	0.564	0.0648	0.0698	0.0582	0.0787	0.527	0.561		0.556	0.66	0.599
Fe-T	mg/L	1.96	1.47	1.89	1.86	1.57	1.57	1.61	1.78	1.9		1.8	1.99	2.08
Hard-D	mg/L	404	393	394	401	394	365	403	398	377		432	405	459
Hard-T	mg/L	392	381	391	397	379	373	389	418	388		447	431	412
K-D	mg/L	5.29	5.2	5.18	5.19	5.16	5.04	5.23	4.77	4.74		5.25	4.77	5.02
K-T	mg/L	5.16	5.02	5.06	5.23	5.09	4.78	5.07	4.85	4.96		5.45	5.11	5.11
Li-D	mg/L	0.0139	0.0123	0.0112	0.0146	0.0121	0.0138	0.0139	0.0127	0.0126		0.0116	0.0138	0.0127
Li-T	mg/L	0.013	0.0123	0.012	0.0155	0.0127	0.0122	0.0138	0.0103	0.0129		0.0126	0.0156	0.0122
Mg-D	mg/L	15.2	15.4	15	15.2	15.5	14.2	15.7	14.5	16		17.1	15.4	16
Mg-T	mg/L	15.2	14.5	14.7	15.3	14.9	14	15.5	15.2	16.5		16.9	16.9	16.4
Mn-D	mg/L	0.616	0.583	0.6	0.559	0.51	0.568	0.569	0.605	0.588		0.672	0.674	0.687
Mn-T	mg/L	0.604	0.546	0.603	0.571	0.539	0.525	0.547	0.587	0.62		0.701	0.697	0.695
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Na-D	mg/L	306	302	298	299	308	279	316	286	300		310	290	298
Na-T	mg/L	293	287	291	303	290	267	294	298	303		314	302	313
Ni-D	mg/L	0.003	0.002	0.002	0.0018	0.002	0.0023	0.0021	0.0023	0.0027		0.0033	0.0032	0.0033
Ni-T	mg/L	0.0029	0.0019	0.0019	0.0018	0.0022	0.002	0.002	0.0023	0.0029		0.0036	0.0035	0.0034
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
Sb-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050
S-D	mg/L	217	212	207	214	213	210	221	212	213		236	211	219
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.17	3.36	2.83	3.04	2.85	2.96	3.26	3.31	2.89		3.43	3.07	3.24
Si-T	mg/L	3.2	3.27	3.04	3.2	3.14	3.13	3.3	3.19	3		3.6	3.69	3.08
Sn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Sr-D	mg/L	1.38	1.49	1.27	1.33	1.27	1.41	1.48	1.5	1.28		1.47	1.5	1.43
Sr-T	mg/L	1.4	1.32	1.42	1.35	1.27	1.29	1.38	1.49	1.29		1.55	1.51	1.46
S-T	mg/L	210	207	203	214	204	197	218	217	219		248	239	229
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Ti-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Tl-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
U-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
V-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Zr-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Zr-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock										
Date										
udf_LabRptNo										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Acidity83	mg/L	26	3.17	2.39	<1.0	12.8	8	1	2.35	4.17
Alk-T	mg/L	30	471.3	471.3	460	480	0	470	470	480
DO-F	mg/L	46	9.70	9.68	8.56	10.74	0	9.38	9.81	10.16
ORP-F	mV	46	177.4	172.4	47.8	240.8	0	152.6	183.6	207.3
pH-F	pH Units	46	7.17	7.17	6.77	7.35	0	7.07	7.21	7.28
Temp-F	C	47	8.167	8.140	6.575	9.703	0	7.743	8.095	8.64
Cond-F	uS/cm	46	2044.5	2032.6	1701.3	2462.3	0	1845.5	2039.4	2174.9
Br-D	mg/L	8	0.0112	0.0112	<0.010	0.014	2	0.01	0.0105	0.0123
Cl-D	mg/L	8	5.8	5.8	5	7.1	0	5.4	5.8	6
Carb	mg/L	30	1.00	1.00	<1.0	<1.0	30	1	1	1
DOC	mg/L									
F-D	mg/L	8	0.0675	0.0668	<0.050	0.079	1	0.0622	0.07	0.075
H2S	mg/L									
Turb-F	NTU	44	40.25	35.50	11.82	79.62	0	25.56	34.42	57.01
TSS	mg/L	44	7.02	6.24	<1.0	14	1	4.8	6.6	9.3
SO4-D	mg/L	43	658	655	540	780	0	615	660	695
Ag-D	mg/L	46	0.0000274	0.0000258	<0.000020	<0.000040	46	2.00E-05	2.00E-05	4.00E-05
Ag-T	mg/L	46	0.0000257	0.0000243	<0.000020	<0.000040	46	2.00E-05	2.00E-05	4.00E-05
Al-D	mg/L	46	0.00418	0.00395	<0.0030	<0.0060	44	0.003	0.003	0.006
Al-T	mg/L	46	0.01438	0.01038	0.0033	0.0674	3	0.0057	0.00975	0.01835
As-D	mg/L	46	0.00099	0.00092	0.00044	0.00173	0	0.00068	0.00088	0.00131
As-T	mg/L	46	0.00167	0.00164	0.00092	0.00233	0	0.00149	0.00168	0.00185
Ba-D	mg/L	46	0.0220	0.0218	0.0186	0.0288	0	0.0202	0.0212	0.0222
Ba-T	mg/L	46	0.0234	0.0232	0.0186	0.0340	0	0.0215	0.0227	0.0241
B-D	mg/L	46	1.039	1.031	0.834	1.35	0	0.94	1.03	1.12
Be-D	mg/L	46	0.000137	0.000129	<0.00010	<0.00020	46	0.0001	0.0001	0.0002
Be-T	mg/L	46	0.000128	0.000122	<0.00010	<0.00020	46	0.0001	0.0001	0.0002
Bi-D	mg/L	46	0.00137	0.00129	<0.0010	<0.0020	46	0.001	0.001	0.002
Bi-T	mg/L	46	0.00128	0.00122	<0.0010	<0.0020	46	0.001	0.001	0.002
B-T	mg/L	46	0.991	0.982	0.756	1.29	0	0.869	0.982	1.088
Ca-D	mg/L	46	148.0	147.4	123	174	0	136.2	148	157.8
Ca-T	mg/L	46	145.3	144.5	115	188	0	132	144.5	155.2
Cd-D	mg/L	46	0.0000140	0.0000132	<0.000010	<0.000020	44	1.00E-05	1.00E-05	2.00E-05
Cd-T	mg/L	46	0.0000130	0.0000123	<0.000010	<0.000020	43	1.00E-05	1.00E-05	2.00E-05
Co-D	mg/L	46	0.00120	0.00109	0.00046	0.00263	0	0.00075	0.00109	0.00145
Co-T	mg/L	46	0.00119	0.00108	0.00044	0.00266	0	0.00075	0.00106	0.00137
Cr-D	mg/L	46	0.00137	0.00129	<0.0010	<0.0020	46	0.001	0.001	0.002
Cr-T	mg/L	46	0.00128	0.00122	<0.0010	<0.0020	46	0.001	0.001	0.002
Cu-D	mg/L	46	0.000282	0.000266	<0.00020	0.0004	44	0.0002	0.0002	0.0004
Cu-T	mg/L	46	0.00138	0.00133	0.00072	0.0023	3	0.00114	0.00139	0.00161

Attachment 1
River Barrier Pillar Passive Treatment System
Table 7

Settling Pond 3 - End of Rock										
Date										
udf_LabRptNo										
Parameter	Unit	Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
Stn.Code										
Fe-D	mg/L	46	0.4078	0.2861	0.023	1.04	0	0.1568	0.4315	0.5962
Fe-T	mg/L	46	2.97	2.80	1.47	4.98	0	2.01	2.78	3.95
Hard-D	mg/L	46	443	441	365	522	0	403	442	478
Hard-T	mg/L	46	435	432	352	568	0	395	435	463
K-D	mg/L	46	5.62	5.60	4.74	6.35	0	5.24	5.71	5.98
K-T	mg/L	46	5.53	5.51	4.78	6.80	0	5.16	5.5	5.84
Li-D	mg/L	46	0.0140	0.0139	0.0112	0.0181	0	0.0127	0.0138	0.0154
Li-T	mg/L	46	0.0137	0.0136	0.0101	0.0183	0	0.0122	0.0134	0.0153
Mg-D	mg/L	46	18.0	17.8	13.6	22.2	0	15.6	17.8	20.3
Mg-T	mg/L	46	17.6	17.4	14	23.8	0	15.5	17.3	19.2
Mn-D	mg/L	46	0.685	0.679	0.51	0.87	0	0.608	0.673	0.77
Mn-T	mg/L	46	0.673	0.667	0.525	0.885	0	0.599	0.671	0.744
Mo-D	mg/L	46	0.00137	0.00129	<0.0010	<0.0020	46	0.001	0.001	0.002
Mo-T	mg/L	46	0.00128	0.00122	<0.0010	<0.0020	46	0.001	0.001	0.002
Na-D	mg/L	46	342	340	274	409	0	310	350	368
Na-T	mg/L	46	334	332	267	418	0	308	341	355
Ni-D	mg/L	46	0.00203	0.00196	<0.0010	0.0033	19	0.00193	0.002	0.00208
Ni-T	mg/L	46	0.00195	0.00186	<0.0010	0.0036	16	0.00153	0.002	0.00208
Pb-D	mg/L	46	0.000274	0.000258	<0.00020	<0.00040	46	0.0002	0.0002	0.0004
Pb-T	mg/L	46	0.000257	0.000243	<0.00020	<0.00040	46	0.0002	0.0002	0.0004
Sb-D	mg/L	46	0.000685	0.000646	<0.00050	<0.0010	46	0.0005	0.0005	0.001
Sb-T	mg/L	46	0.000641	0.000608	<0.00050	<0.0010	46	0.0005	0.0005	0.001
S-D	mg/L	46	250	248	201	305	0	219	254	273
Se-D	mg/L	46	0.000137	0.000129	<0.00010	<0.00020	46	0.0001	0.0001	0.0002
Se-T	mg/L	46	0.000128	0.000122	<0.00010	<0.00020	46	0.0001	0.0001	0.0002
Si-D	mg/L	46	3.17	3.17	2.83	3.47	0	3.09	3.17	3.28
Si-T	mg/L	46	3.25	3.24	2.65	4.02	0	3.09	3.25	3.38
Sn-D	mg/L	46	0.00685	0.00646	<0.0050	<0.010	46	0.005	0.005	0.01
Sn-T	mg/L	46	0.00641	0.00608	<0.0050	<0.010	46	0.005	0.005	0.01
Sr-D	mg/L	46	1.55	1.54	1.27	1.88	0	1.44	1.54	1.68
Sr-T	mg/L	46	1.53	1.52	1.21	2	0	1.4	1.51	1.65
S-T	mg/L	46	247	245	197	318	0	220	252	268
Ti-D	mg/L	46	0.00685	0.00646	<0.0050	<0.010	46	0.005	0.005	0.01
Ti-T	mg/L	46	0.00641	0.00608	<0.0050	<0.010	46	0.005	0.005	0.01
Tl-D	mg/L	46	0.0000137	0.0000129	<0.000010	<0.000020	46	1.00E-05	1.00E-05	2.00E-05
Tl-T	mg/L	46	0.0000128	0.0000122	<0.000010	<0.000020	46	1.00E-05	1.00E-05	2.00E-05
U-D	mg/L	46	0.000139	0.000131	<0.00010	<0.00020	43	0.0001	0.0001	0.0002
U-T	mg/L	46	0.000131	0.000125	<0.00010	<0.00020	39	0.0001	0.0001	0.0002
V-D	mg/L	46	0.00685	0.00646	<0.0050	<0.010	46	0.005	0.005	0.01
V-T	mg/L	46	0.00641	0.00608	<0.0050	<0.010	46	0.005	0.005	0.01
Zn-D	mg/L	46	0.00685	0.00646	<0.0050	<0.010	46	0.005	0.005	0.01
Zn-T	mg/L	46	0.00641	0.00608	<0.0050	<0.010	46	0.005	0.005	0.01
Zr-D	mg/L	46	0.000137	0.000129	<0.00010	<0.00020	46	0.0001	0.0001	0.0002
Zr-T	mg/L	46	0.000128	0.000122	<0.00010	<0.00020	46	0.0001	0.0001	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date			20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025	03-Dec-2025	04-Dec-2025	
	Sample Class		M	M	M	M	M	M	M	M	M	M	M	M	
	udf_LabRptNo		C595855	C596150	C596303	C596303	C596303	C596758	C597430	C597673	C597939	C597939	C598701	C599039	
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Acidity83	mg/L			<1.0	<1.0	<1.0	1.2	<1.0	3.1	2.7					
Alk-T	mg/L			450	500	500	500	510	500	490					
DO-F	mg/L	(>6.99)		9.32	8.64	8.2	8.7	9.34	9.62	9.66	9.81	10.05	11.63	10.48	10.24
ORP-F	mV			37.1	-28.1	-52.4	-50.1	10.5	31.2	46.1	51.3	78.3	183.1	174.8	183.5
pH-F	pH Units	6.5 - 9		7.19	7.22	7.15	7.21	7.28	7.34	7.29	7.38	7.37	7.55	7.29	7.35
Temp-F	C			8.38	8.7	9.007	7.464	8.22	8.28	8.55	7.492	7.626	6.83	7.8	8.023
Cond-F	uS/cm			2197.5	2440	2463	2476	2492.2	2514.5	2407	2462.4	2417.2	2338.9	2460.4	2425.5
Br-D	mg/L			0.025	0.027	0.025	0.024	0.025	0.025	0.022					
Cl-D	mg/L			11	11	12	12	12	12	11					
Carb	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0					
DOC	mg/L			0.96	0.78	0.96	0.91	0.91	0.86	1					
F-D	mg/L			<0.050	0.077	0.078	0.074	0.075	0.075	0.057					
H2S	mg/L														
Turb-F	NTU			13.38	31	41.72	108.65	75.54	92.36	81.2	67.55	62.17	38.45	28.32	23.86
TSS	mg/L	20	25	8.8	6.4	10	12	20	22	16	14	13	6.8	5.6	5.2
SO4-D	mg/L	1057	1321	710	830	790	780	790	800	800		750	780	730	780
Ag-D	mg/L			<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Ag-T	mg/L			<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
Al-D	mg/L			<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0333	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Al-T	mg/L			0.132	0.0152	0.0367	0.0170	0.0138	0.0613	0.0309	0.0115	0.0069	0.0189	0.0068	0.0116
As-D	mg/L	0.073	0.091	0.00057	0.00059	0.00056	0.00053	0.00055	0.00051	0.00142	0.00053	0.00054	0.0003	0.00042	0.00040
As-T	mg/L			0.00094	0.00092	0.00116	0.00118	0.00174	0.002	0.00133	0.00146	0.00154	0.00079	0.00083	0.00089
Ba-D	mg/L			0.119	0.0588	0.0393	0.0302	0.0264	0.025	0.0247	0.0237	0.0222	0.0295	0.0304	0.0290
Ba-T	mg/L			0.115	0.0595	0.0394	0.0312	0.0302	0.0335	0.0246	0.0266	0.0281	0.0331	0.0316	0.0319
B-D	mg/L			0.88	0.99	1.06	1.01	1.06	1.27	0.85	1.12	1.01	0.97	1.29	1.14
Be-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Be-T	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bi-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
B-T	mg/L			0.902	0.92	1.05	0.99	1.05	1.12	0.9	1.19	1.19	1.13	1.23	1.13
Ca-D	mg/L			167	177	189	181	188	179	141	166	182	177	175	167
Ca-T	mg/L			141	169	182	178	184	196	145	176	183	171	169	178
Cd-D	mg/L			0.000062	0.000036	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Cd-T	mg/L			0.000064	0.000029	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Co-D	mg/L			0.00164	0.00078	0.00042	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00043	0.00053
Co-T	mg/L			0.00135	0.00078	0.00044	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00043	0.00055
Cr-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cr-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cu-D	mg/L			<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00084	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Cu-T	mg/L			0.00071	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date				20-Nov-2025	21-Nov-2025	22-Nov-2025	23-Nov-2025	24-Nov-2025	25-Nov-2025	27-Nov-2025	28-Nov-2025	29-Nov-2025	01-Dec-2025	03-Dec-2025	04-Dec-2025
Sample Class				M	M	M	M	M	M	M	M	M	M	M	M
udf_LabRptNo				C595855	C596150	C596303	C596303	C596303	C596758	C597430	C597673	C597939	C597939	C598701	C599039
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Fe-D	mg/L			0.215	0.615	0.678	0.490	0.462	0.277	5.57	0.406	0.347	<0.010	0.033	0.054
Fe-T	mg/L	2.5	3.1	1.58	2.48	3.77	4.25	6.98	7.92	5.67	6.28	6.25	2.68	2.39	2.42
Hard-D	mg/L			505	530	562	538	556	538	427	511	541	524	530	507
Hard-T	mg/L			436	506	541	528	546	583	433	539	561	522	513	534
K-D	mg/L			7.48	6.63	6.46	6.20	6.33	6.4	5.74	6.58	6.45	6.12	6.50	6.41
K-T	mg/L			6.48	6.25	6.19	5.94	6.25	6.71	5.32	6.22	6.52	6.37	6.41	6.35
Li-D	mg/L			0.0124	0.0164	0.0189	0.0186	0.0189	0.0185	0.0153	0.0173	0.0175	0.0164	0.0186	0.0167
Li-T	mg/L			0.0125	0.0147	0.0194	0.0183	0.0196	0.0195	0.0155	0.0188	0.0201	0.0178	0.0181	0.0171
Mg-D	mg/L			21.3	21.5	21.7	21.0	21.2	22.3	17.9	23.4	21.1	20.1	22.6	21.9
Mg-T	mg/L			20.2	20.1	20.9	20.3	21.3	22.5	17.2	24.1	25.3	23.2	21.8	21.7
Mn-D	mg/L			0.896	0.985	0.965	0.919	0.933	0.892	0.801	0.855	0.913	0.736	0.827	0.785
Mn-T	mg/L			0.804	0.931	0.955	0.875	0.964	0.964	0.786	0.866	0.928	0.759	0.806	0.798
Mo-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Mo-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Na-D	mg/L			347	375	377	366	376	401	310	365	375	349	404	378
Na-T	mg/L			313	353	371	356	382	420	287	405	425	403	391	388
Ni-D	mg/L			<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Ni-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Pb-D	mg/L			<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Pb-T	mg/L			<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Sb-D	mg/L			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb-T	mg/L			<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
S-D	mg/L			257	300	303	295	306	305	261	293	293	270	297	297
Se-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Se-T	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Si-D	mg/L			3.51	3.64	3.86	3.68	3.74	3.65	2.8	3.53	3.62	3.47	3.61	3.38
Si-T	mg/L			3.69	3.5	3.89	3.68	3.86	4	2.8	3.84	3.72	3.46	3.60	3.68
Sn-D	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sn-T	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sr-D	mg/L			1.41	1.87	2.01	1.90	1.98	1.86	1.63	1.9	1.92	1.75	1.82	1.79
Sr-T	mg/L			1.38	1.76	1.91	1.81	1.93	2.01	1.64	1.87	1.94	1.79	1.75	1.82
S-T	mg/L			258	272	297	289	315	329	256	289	312	292	290	292
Ti-D	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ti-T	mg/L			0.0102	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
TI-D	mg/L			0.000022	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
TI-T	mg/L			0.00002	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
U-D	mg/L			0.00066	0.00027	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
U-T	mg/L			0.00063	0.00025	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
V-D	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
V-T	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-D	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zn-T	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zr-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zr-T	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date			05-Dec-2025	06-Dec-2025	07-Dec-2025	08-Dec-2025	09-Dec-2025	10-Dec-2025	11-Dec-2025	12-Dec-2025	14-Dec-2025	15-Dec-2025	16-Dec-2025	17-Dec-2025	
Sample Class			M	M	M	M	M	M	M	M	M	M	M	M	
udf_LabRptNo			C599325	C599559	C599564	C599563	C5A0829	C5A0160	C5A0525	C5A0738	C5A1029	C5A1034	C5A1303	C5A1649	
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Acidity83	mg/L				<1.0	<1.0	<1.0	<1.0	<1.0	2.3	5.9	4.7	2.6	4.9	<1.0
Alk-T	mg/L				480	470	480	470	430	460	480	480	470	470	460
DO-F	mg/L	(>6.99)		10.43	9.06	9.87	9.91	10.24	10.23	10.12	10.28	9.38	9.2	8.68	8.97
ORP-F	mV			186.4	193.8	161.7	154.5	168.9	162.2	191.5	143.5	150.5	158.3	151	161.2
pH-F	pH Units	6.5 - 9		7.35	7.27	7.32	7.18	7.29	7.29	6.99	7.2	7.2	7.18	7.23	7.25
Temp-F	C			7.88	7.606	7.75	8.163	6.787	8.271	7.783	8.51	8.906	8.965	8.256	7.71
Cond-F	uS/cm			2399	2399.5	2412	2380	2067.9	1969	2093.2	2137.3	2112.7	2048.9	2069.5	2041.8
Br-D	mg/L				0.019	0.02	0.018	0.016	0.018	0.017	0.016	0.023	0.017	0.017	0.019
Cl-D	mg/L				10	9.9	9.7	9.7	8.7	8.6	8.6	8.4	8.6	8.8	7.7
Carb	mg/L				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L														
F-D	mg/L				<0.050	0.056	0.053	0.056	0.065	0.055	0.065	0.066	0.065	0.053	0.066
H2S	mg/L														
Turb-F	NTU			34.9		29.9	39.08	44.31	47.53	62.7	56.73	63.95	70.28	70.16	67.46
TSS	mg/L	20	25		6	6	12	11	12	13	12	13	14	11	11
S04-D	mg/L	1057	1321		750	740	790	720	750	730	750	700	710	720	720
Ag-D	mg/L			<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020
Ag-T	mg/L			<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040
Al-D	mg/L			<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030
Al-T	mg/L			0.0165	0.011	0.0106	0.0147	0.0217	0.0263	0.118	0.0139	0.028	0.062	0.0583	0.0235
As-D	mg/L	0.073	0.091	0.00042	0.0004	0.00041	0.0005	0.00059	0.00065	0.00062	0.00066	0.00068	0.00073	0.00065	0.00075
As-T	mg/L			0.00089	0.00089	0.00091	0.00116	0.00123	0.00152	0.00188	0.00154	0.00149	0.00174	0.00178	0.00166
Ba-D	mg/L			0.0289	0.0288	0.0291	0.0251	0.0229	0.0224	0.0221	0.0214	0.021	0.0205	0.0207	0.0202
Ba-T	mg/L			0.0303	0.0305	0.0278	0.0249	0.0238	0.027	0.0295	0.0253	0.0235	0.0244	0.0235	0.0228
B-D	mg/L			1.09	1.01	1.07	1.14	1.14	1.06	1.16	0.99	1.12	1.11	1.05	0.843
Be-D	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010
Be-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020
Bi-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010
Bi-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020
B-T	mg/L			1.05	0.972	0.932	0.955	1.06	1.08	1.51	0.951	1.03	1.13	1.06	0.88
Ca-D	mg/L			165	167	161	162	180	170	164	161	156	155	155	162
Ca-T	mg/L			157	162	155	158	159	180	164	173	152	159	152	149
Cd-D	mg/L			<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010
Cd-T	mg/L			<0.000020	<0.000010	0.00001	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020
Co-D	mg/L			0.00053	0.00065	0.00061	0.0007	0.00068	0.00073	0.00072	0.00073	0.00076	0.00075	0.00081	0.00094
Co-T	mg/L			0.00053	0.00063	0.00063	0.00068	0.00065	0.00079	0.00082	0.00073	0.00074	0.00076	0.00086	0.00086
Cr-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010
Cr-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020
Cu-D	mg/L			<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020
Cu-T	mg/L			<0.0010	0.00068	0.00079	0.00089	0.00169	0.0013	0.0041	0.00118	0.0016	0.0021	0.0019	0.002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet																									
Date	Sample Class	05-Dec-2025		06-Dec-2025		07-Dec-2025		08-Dec-2025		09-Dec-2025		10-Dec-2025		11-Dec-2025		12-Dec-2025		14-Dec-2025		15-Dec-2025		16-Dec-2025		17-Dec-2025	
	udf_LabRptNo	M		M		M		M		M		M		M		M		M		M		M		M	
		C599325		C599559		C599564		C599563		C5A0829		C5A0160		C5A0525		C5A0738		C5A1029		C5A1034		C5A1303		C5A1649	
Parameter	Unit	Trigger 1 (T1)		Trigger 2 (T2)		RBPO		RBPO		RBPO		RBPO		RBPO		RBPO		RBPO		RBPO		RBPO		RBPO	
Fe-D	mg/L					0.023	0.014	0.029	0.428	0.364	0.528	0.485	0.695	0.714	0.619	0.717	0.547								
Fe-T	mg/L	2.5	3.1	2.74	2.27	2.36	3.66	3.93	4.76	6.61	4.37	4.41	5.18	4.58	3.97										
Hard-D	mg/L			497	502	488	492	539	506	501	493	475	472	465	483										
Hard-T	mg/L			475	486	464	472	481	536	501	509	456	476	456	444										
K-D	mg/L			6.02	6.41	6.19	6.42	6.14	5.93	5.99	6.11	5.98	5.9	5.95	5.98										
K-T	mg/L			5.96	6.07	5.73	5.91	5.64	6.26	6.17	6.07	5.65	5.8	5.75	6.04										
Li-D	mg/L			0.0155	0.0154	0.0162	0.0177	0.0163	0.0159	0.0164	0.0146	0.0158	0.016	0.0156	0.0127										
Li-T	mg/L			0.0153	0.0158	0.0151	0.0157	0.0147	0.0172	0.0178	0.0152	0.0146	0.0156	0.0163	0.014										
Mg-D	mg/L			20.6	20.8	20.8	20.9	21.8	20.1	22	22.1	20.7	20.6	19	19.3										
Mg-T	mg/L			20.2	19.7	18.9	19.1	20.3	20.9	22.4	18.6	18.8	19.2	18.7	17.7										
Mn-D	mg/L			0.757	0.848	0.822	0.913	0.832	0.822	0.781	0.797	0.772	0.76	0.77	0.778										
Mn-T	mg/L			0.756	0.786	0.763	0.815	0.775	0.88	0.817	0.810	0.764	0.762	0.755	0.748										
Mo-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010										
Mo-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020										
Na-D	mg/L			362	376	355	368	383	361	365	419	367	365	354	369										
Na-T	mg/L			395	345	332	342	366	376	394	330	341	350	343	336										
Ni-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0012										
Ni-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020										
Pb-D	mg/L			<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020										
Pb-T	mg/L			<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040										
Sb-D	mg/L			<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050										
Sb-T	mg/L			<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010										
S-D	mg/L			299	279	276	288	288	279	281	293	275	269	266	268										
Se-D	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010										
Se-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020										
Si-D	mg/L			3.25	3.2	3.31	3.34	3.42	3.36	3.19	3.41	3.1	3.16	3.29	3.02										
Si-T	mg/L			3.31	3.59	3.31	3.45	3.45	3.76	3.86	3.88	3.1	3.35	3.4	3.29										
Sn-D	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050										
Sn-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010										
Sr-D	mg/L			1.73	1.64	1.79	1.81	1.72	1.85	1.7	1.69	1.67	1.68	1.64	1.54										
Sr-T	mg/L			1.68	1.73	1.6	1.67	1.66	1.97	1.83	2.14	1.6	1.66	1.63	1.74										
S-T	mg/L			280	273	258	267	287	291	289	303	266	266	257	258										
Ti-D	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050										
Ti-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.011	<0.0050	<0.010	<0.010	<0.010	<0.010										
Ti-D	mg/L			<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010										
Ti-T	mg/L			<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020										
U-D	mg/L			0.00017	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0001										
U-T	mg/L			<0.00020	0.00016	0.00014	0.00012	0.00011	<0.00020	<0.00020	0.00010	<0.00020	<0.00020	<0.00020	<0.00020										
V-D	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050										
V-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010										
Zn-D	mg/L			<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050										
Zn-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010										
Zr-D	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010										
Zr-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020										

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date				18-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026
	Sample Class				M	M	M	M	M	M	M	M	M	M	M
	udf_LabRptNo				C5A1980	C5A2568	C600035	C600037	C600041	C600038	C600460	C600777	C600995	C601338	C603048
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Acidity83	mg/L			13.4	5.1	3.4	<1.0	<1.0	<1.0	<1.0	2.4	3.2	10.7	2.3	3.6
Alk-T	mg/L			480	480	450	460	470	470	470	470	480	480	470	460
DO-F	mg/L	(>6.99)		76.6	8.86	8.75	9.63	9.62	10.68		10.24	10.3	11.9	10.96	10.71
ORP-F	mV			166.7	195.2	185.9	216.5	211.1	225.2		227.2	227.1	159.9	156.5	222.9
pH-F	pH Units	6.5 - 9		7.25	7.24	7.44	7.32	7.35	6.76		7.14	7.07	7.1	6.99	6.57
Temp-F	C			7.86	7.159	6.71	6.871	7.468	7.86		6.853	6.768	6.753	9.557	7.263
Cond-F	uS/cm			2046.4	2009.4	1975.1	1971.5	1968.7	2216		2266.8	2207.2	2232.6	2092	2145.4
Br-D	mg/L			<0.10	0.011	0.013	<0.010	<0.010	<0.010	0.013			0.013	0.017	0.014
Cl-D	mg/L			7.7	7.1	8.1	5.8	6.3	6.3	6			5.9	6.4	6.6
Carb	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L					1.1		0.83							
F-D	mg/L			0.054	<0.050	0.066	0.067	0.069	<0.050	0.067			0.076	0.074	0.065
H2S	mg/L														
Turb-F	NTU			83.35	65.85	70.62	52.13	57.17	25.92		64.71	35.93	33.17	59.55	30.31
TSS	mg/L	20	25	11	9.2	11	5.6	6.8	5.2	6.4	7.6	6.4	6	5.2	6.4
S04-D	mg/L	1057	1321	670	660	720	660	660	630	660	630	650	660	610	630
Ag-D	mg/L			<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L			<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
Al-D	mg/L			<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L			0.0427	0.0149	0.0049	0.0046	0.0059	<0.0060	0.0071	0.0153	0.0139	0.0036	0.0262	0.0154
As-D	mg/L	0.073	0.091	0.0007	0.00089	0.0008	0.00084	0.00081	0.00084	0.0008	0.0008	0.00079	0.00085	0.00081	0.00099
As-T	mg/L			0.00196	0.00161	0.00163	0.00168	0.00158	0.00154	0.00179	0.0015	0.00149	0.00137	0.00149	0.00169
Ba-D	mg/L			0.0204	0.019	0.0198	0.0198	0.0203	0.0197	0.019	0.0189	0.0183	0.0185	0.0274	0.0224
Ba-T	mg/L			0.0232	0.0213	0.0203	0.0213	0.0201	0.0218	0.0235	0.0205	0.0208	0.0187	0.0291	0.0235
B-D	mg/L			0.99	0.92	1.14	1.20	1.29	1.15	1	1.19	1.2	0.932	1.17	1.15
Be-D	mg/L			<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Bi-D	mg/L			<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
B-T	mg/L			1.04	1.27	0.969	1.08	1.04	1.09	0.833	1.13	1.19	0.807	0.88	0.95
Ca-D	mg/L			149	145	153	148	153	148	144	141	139	144	132	138
Ca-T	mg/L			143	147	132		136	156	153	131	141	129	133	136
Cd-D	mg/L			<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L			<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
Co-D	mg/L			0.00091	0.00112	0.00102	0.00129	0.00124	0.00128	0.00121	0.0011	0.00102	0.00107	0.00068	0.00086
Co-T	mg/L			0.00091	0.00098	0.00095	0.00134	0.00118	0.00135	0.00118	0.00104	0.00108	0.00105	0.00073	0.00092
Cr-D	mg/L			<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Cu-D	mg/L			<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			0.0022	0.00154	0.00206	0.00144	0.0014	0.0014	0.00126	0.00151	0.00151	0.00114	<0.0010	0.0016

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date				18-Dec-2025	23-Dec-2025	24-Dec-2025	28-Dec-2025	30-Dec-2025	31-Dec-2025	03-Jan-2026	06-Jan-2026	07-Jan-2026	08-Jan-2026	17-Jan-2026	19-Jan-2026
	Sample Class			M	M	M	M	M	M	M	M	M	M	M	M
	udf_LabRptNo			C5A1980	C5A2568	C600035	C600037	C600041	C600038	C600460	C600777	C600995	C601338	C603048	C603048
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Fe-D	mg/L			0.459	0.246	0.27	0.150	0.153	0.163	0.139	0.113	0.131	0.128	0.383	0.233
Fe-T	mg/L	2.5	3.1	5.45	3.53	3.54	2.87	2.98	2.91	2.79	2.78	2.81	2.47	2.77	2.99
Hard-D	mg/L			449	433	466	452	465	447	429	422	421	422	400	415
Hard-T	mg/L			441	452	401	443	413	463	450	394	421	380	397	405
K-D	mg/L			5.68	5.77	5.86	5.67	5.67	5.76	5.67	5.81	5.61	5.4	5.55	5.55
K-T	mg/L			5.6	5.77	5.54		5.48	5.92	6.08	5.42	5.64	4.91	5.6	5.64
Li-D	mg/L			0.0143	0.0134	0.013	0.0122	0.0126	0.0126	0.0131	0.0133	0.0131	0.013	0.0152	0.0147
Li-T	mg/L			0.0136	0.014	0.012	0.0128	0.0119	0.0138	0.0111	0.0126	0.0131	0.0114	0.0124	0.0138
Mg-D	mg/L			19	17.1	20.6	19.9	20.2	18.6	16.6	17.2	18	15.3	17.1	17.2
Mg-T	mg/L			20.2	20.5	17.1		17.7	18	16.6	16.4	16.9	14.1	16	16
Mn-D	mg/L			0.748	0.683	0.67	0.636	0.621	0.65	0.637	0.626	0.582	0.63	0.564	0.613
Mn-T	mg/L			0.712	0.656	0.614	0.667	0.59	0.667	0.679	0.577	0.591	0.587	0.568	0.608
Mo-D	mg/L			<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L			<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Na-D	mg/L			350	348	384	368	384	359	338	356	366	314	325	342
Na-T	mg/L			360	368	330		331	362	346	343	355	297	324	327
Ni-D	mg/L			<0.0020	<0.0020	0.0016	0.0020	0.0019	0.002	<0.0020	0.0016	0.0015	0.0015	<0.0010	0.0012
Ni-T	mg/L			<0.0020	0.0014	0.0015	0.0020	0.0019	0.0022	0.0017	0.0015	0.0015	0.0015	<0.0020	<0.0020
Pb-D	mg/L			<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L			<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Sb-D	mg/L			<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L			<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
S-D	mg/L			267	251	266	256	258	257	262	256	250	242	238	247
Se-D	mg/L			<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
Si-D	mg/L			3.09	2.81	3.1	2.89	2.96	3.16	3.02	3	3.02	3.18	3.35	3.22
Si-T	mg/L			3.31	3.6	2.96	3.14	2.8	3.28	3.32	2.88	3.1	2.88	3.3	3.23
Sn-D	mg/L			<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Sr-D	mg/L			1.6	1.41	1.57	1.55	1.55	1.52	1.52	1.45	1.41	1.54	1.45	1.47
Sr-T	mg/L			1.56	1.61	1.45	1.54	1.42	1.52	1.83	1.42	1.46	1.38	1.36	1.43
S-T	mg/L			262	279	249		246	257	259	244	260	225	229	236
Ti-D	mg/L			<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Tl-D	mg/L			<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tl-T	mg/L			<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020
U-D	mg/L			<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	0.00011	0.00011	<0.00010	0.00011	<0.00010
U-T	mg/L			<0.00020	0.00011	<0.00010	<0.00010	<0.00010	<0.00020	0.00011	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020
V-D	mg/L			<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Zn-D	mg/L			<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L			<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Zr-D	mg/L			<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L			<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date	Sample Class			20-Jan-2026	21-Jan-2026	22-Jan-2026	26-Jan-2026	29-Jan-2026	05-Feb-2026	09-Feb-2026	23-Feb-2026	25-Feb-2026	02-Mar-2026	04-Mar-2026	09-Mar-2026
	udf_LabRptNo			M	M	M	M	M	M	M	M	M	M	M	M
				C603622	C603886		C604394	C605538	C606988	C607575	C610095	C610796	C611546	C612204	C613064
Parameter	Unit														
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Acidity83	mg/L			3.1											
Alk-T	mg/L			480	470		460			460	450		460	460	
DO-F	mg/L	(>6.99)		9.83	9.85	10.05	10.56	10.31	11.84	10.1	10.66	10.91	10.36	10.27	10.41
ORP-F	mV			215.5	229.8	233.6	246.4	205.2	139.3		192.1	164.2	229	192.6	227.5
pH-F	pH Units	6.5 - 9		6.7	6.93	6.88	6.59	7.09	6.64	7.27	7.22	7.12	7.22	7.17	7.21
Temp-F	C			8.668	7.086	9.178	7.975	8.701	8.25	9.33	7.422	8.056	6.873	8.53	8.071
Cond-F	uS/cm			1875.9	1944.3	1792	1714.6	1842.1	136	1758.9	1713.8	1836.8	1840.7	1958.1	1731.7
Br-D	mg/L			<0.010	0.011		<0.010			<0.010	0.014	<0.010	0.01	0.01	<0.010
Cl-D	mg/L			5.2	5.6		5			4.3	4.6	5.5	4	4.8	4.6
Carb	mg/L			<1.0	<1.0		<1.0			<1.0	<1.0		<1.0	<1.0	
DOC	mg/L														
F-D	mg/L			0.072	0.064		0.071			0.069	0.087	0.075	0.068	0.079	0.068
H2S	mg/L														
Turb-F	NTU			39.31	35.18	30.57	18.53	25.8	-11.01	19.49	15.6	16.05	24.7	23.9	23.48
TSS	mg/L	20	25	6.8	6		6.4	5.6	4.8	4.8	<1.0	4	3.2	3.6	4.4
S04-D	mg/L	1057	1321	640	660		650			550	530	580	590	560	550
Ag-D	mg/L			<0.000020	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Ag-T	mg/L			<0.000020	<0.000040		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Al-D	mg/L			<0.0030	<0.0030		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Al-T	mg/L			0.0086	<0.0060		0.0041	0.0141	0.0043	0.003	0.0263	0.0092	0.0052	0.0196	0.0079
As-D	mg/L	0.073	0.091	0.0011	0.00118		0.00121	0.0012	0.00134	0.00146	0.00118	0.00123	0.00147	0.00131	0.00145
As-T	mg/L			0.00152	0.00161		0.00187	0.00166	0.00189	0.00197	0.00149	0.00168	0.00183	0.00198	0.00214
Ba-D	mg/L			0.0205	0.0198		0.0201	0.021	0.0206	0.0205	0.0246	0.0209	0.0224	0.0217	0.0238
Ba-T	mg/L			0.0205	0.0206		0.0223	0.0211	0.022	0.0231	0.0241	0.0221	0.0215	0.0243	0.0244
B-D	mg/L			1.16	1.31		0.914	1.09	1.07	0.959	0.916	0.803	0.946	0.868	1
Be-D	mg/L			<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Be-T	mg/L			<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L			<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bi-T	mg/L			<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-T	mg/L			1.06	0.98		1.04	0.842	0.954	0.923	0.844	0.856	0.889	0.997	0.854
Ca-D	mg/L			147	142		141	135	121	133	133	131	137	127	122
Ca-T	mg/L			131	146		141	139	121	127	126	131	121	130	125
Cd-D	mg/L			<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Cd-T	mg/L			<0.000010	<0.000020		<0.000010	0.000016	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Co-D	mg/L			0.00102	0.00105		0.00149	0.0016	0.00181	0.00214	0.00132	0.00141	0.00121	0.00144	0.00153
Co-T	mg/L			0.00098	0.00117		0.00151	0.00158	0.00188	0.00209	0.00127	0.00137	0.00107	0.00148	0.00137
Cr-D	mg/L			<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cr-T	mg/L			<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L			<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			0.00111	0.0015		0.00145	0.00146	0.00159	0.00164	0.00103	0.00112	0.00091	0.00124	0.00098

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date	Sample Class	20-Jan-2026		21-Jan-2026		22-Jan-2026		26-Jan-2026		29-Jan-2026		05-Feb-2026		09-Feb-2026	
	udf_LabRptNo	M		M		M		M		M		M		M	
		C603622		C603886				C604394		C605538		C606988		C607575	
Parameter	Unit	Trigger 1 (T1)		Trigger 2 (T2)											
	Stn.Code					RBPO		RBPO		RBPO		RBPO		RBPO	
Fe-D	mg/L					0.808	0.861		0.626	0.597	0.542	0.579	0.18	0.49	0.0538
Fe-T	mg/L	2.5	3.1	2.8	3.09				2.58	2.33	2.04	1.84	1.31	1.73	1.71
Hard-D	mg/L					440	432		420	403	362	394	396	388	408
Hard-T	mg/L					400	435		426	408	370	382	375	386	359
K-D	mg/L					5.74	5.65		5.71	5.23	5.14	5.17	5.27	5.1	5.32
K-T	mg/L					5.19	5.54		5.47	5.41	5.06	5.35	4.86	4.96	4.75
Li-D	mg/L					0.0134	0.0135		0.0146	0.0125	0.0139	0.0143	0.0123	0.0113	0.0145
Li-T	mg/L					0.0126	0.0141		0.0137	0.011	0.0126	0.0135	0.0123	0.012	0.0136
Mg-D	mg/L					17.7	18.7		16.2	16	14.6	15.1	15.6	14.6	15.8
Mg-T	mg/L					17.3	17.3		18.1	15	16.3	15.6	14.5	14.5	13.8
Mn-D	mg/L					0.647	0.63		0.688	0.621	0.558	0.606	0.576	0.581	0.571
Mn-T	mg/L					0.604	0.686		0.647	0.593	0.549	0.619	0.531	0.613	0.493
Mo-D	mg/L					<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L					<0.0010	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Na-D	mg/L					356	375		310	340	311	299	305	298	312
Na-T	mg/L					337	359		347	307	303	303	286	292	272
Ni-D	mg/L					0.0014	0.0015		0.0021	0.0022	0.0028	0.0029	0.0019	0.002	0.0018
Ni-T	mg/L					0.0014	<0.0020		0.0021	0.0021	0.0029	0.003	0.0018	0.0019	0.0016
Pb-D	mg/L					<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-T	mg/L					<0.00020	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Sb-D	mg/L					<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Sb-T	mg/L					<0.00050	<0.0010		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
S-D	mg/L					264	261		243	244	214	210	212	207	218
Se-D	mg/L					<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Se-T	mg/L					<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L					3.04	3.07		3.2	3.2	3.08	3.2	3.4	2.84	3.07
Si-T	mg/L					2.83	3.15		3.2	3.23	3.04	3	3.23	3.05	2.8
Sn-D	mg/L					<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sn-T	mg/L					<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sr-D	mg/L					1.54	1.53		1.56	1.38	1.29	1.36	1.5	1.28	1.35
Sr-T	mg/L					1.36	1.4		1.51	1.39	1.28	1.44	1.31	1.38	1.34
S-T	mg/L					237	260		248	229	211	220	210	198	190
Ti-D	mg/L					<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ti-T	mg/L					<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Tl-D	mg/L					<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tl-T	mg/L					<0.000010	<0.000020		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
U-D	mg/L					<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
U-T	mg/L					<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L					<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-T	mg/L					<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L					<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-T	mg/L					<0.0050	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zr-D	mg/L					<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Zr-T	mg/L					<0.00010	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet										
Date			11-Mar-2026	16-Mar-2026	18-Mar-2026	19-Mar-2026	23-Mar-2026	25-Mar-2026	30-Mar-2026	
	Sample Class		M	M	M	M	M	M	M	
	udf_LabRptNo		C613668	C614547	C615091		C615992	C616212	C617372	
Parameter	Unit									
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO
Acidity83	mg/L									
Alk-T	mg/L									
DO-F	mg/L	(>6.99)		10.28	10.35	10.29	9.25	10.55	9.78	10.71
ORP-F	mV			186.2	198.9	164.1	162.6	197.8	82.4	170.3
pH-F	pH Units	6.5 - 9		7.25	7.03	7.04	7.17	7.03	7.25	7.27
Temp-F	C			7.304	8.495	8.752	9.497	8.998	9.317	8.506
Cond-F	uS/cm			1855.9	1781.4	1760	1829.5	1790.5	1720.4	1715.2
Br-D	mg/L			<0.010	0.012	0.012		<0.010		
Cl-D	mg/L			5.3	4.5	4.9		4.7		
Carb	mg/L									
DOC	mg/L									
F-D	mg/L			0.064	0.075	0.064		0.053		
H2S	mg/L									
Turb-F	NTU			26.64	24.82	16.83	10.59	17.53	14.57	17.9
TSS	mg/L	20	25	4.4	4.4	3.2		4.4	5.6	2.4
SO4-D	mg/L	1057	1321	580	570	640		610	600	650
Ag-D	mg/L			<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Ag-T	mg/L			<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Al-D	mg/L			0.0036	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030
Al-T	mg/L			0.0084	0.0247	0.0076		0.0048	0.0059	<0.0030
As-D	mg/L	0.073	0.091	0.00149	0.0014	0.00154		0.00172	0.00162	0.00155
As-T	mg/L			0.00215	0.00202	0.00213		0.00228	0.00219	0.0023
Ba-D	mg/L			0.0233	0.021	0.0207		0.0218	0.0214	0.0205
Ba-T	mg/L			0.0237	0.0216	0.0224		0.0236	0.0226	0.0218
B-D	mg/L			0.935	0.88	1.08		1.01	0.986	0.876
Be-D	mg/L			<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Be-T	mg/L			<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Bi-D	mg/L			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Bi-T	mg/L			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
B-T	mg/L			0.904	0.835	1.09		0.918	1.06	0.831
Ca-D	mg/L			133	136	125		144	142	151
Ca-T	mg/L			133	135	128		147	144	143
Cd-D	mg/L			<0.000010	<0.000010	<0.000010		<0.000010	0.000018	<0.000010
Cd-T	mg/L			<0.000010	0.000012	0.000015		0.000011	0.00001	<0.000010
Co-D	mg/L			0.00139	0.00171	0.00193		0.00234	0.00244	0.00264
Co-T	mg/L			0.00132	0.00173	0.00199		0.00254	0.00264	0.00278
Cr-D	mg/L			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cr-T	mg/L			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Cu-D	mg/L			<0.00020	<0.00020	<0.00020		0.00025	<0.00020	<0.00020
Cu-T	mg/L			0.0009	0.0012	0.00139		0.00148	0.00166	0.00174

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet															
Date	11-Mar-2026			16-Mar-2026		18-Mar-2026		19-Mar-2026		23-Mar-2026		25-Mar-2026		30-Mar-2026	
Sample Class	M			M		M		M		M		M		M	
udf_LabRptNo	C613668			C614547		C615091				C615992		C616212		C617372	
Parameter	Unit	Trigger 1 (T1)			Trigger 2 (T2)										
	Stn.Code				RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	RBPO	
Fe-D	mg/L				0.0636	0.539	0.548			0.533	0.662	0.531			
Fe-T	mg/L	2.5		3.1	1.6	1.78	1.89			1.76	1.96	2.07			
Hard-D	mg/L				394	399	379			428	419	447			
Hard-T	mg/L				395	398	387			436	429	427			
K-D	mg/L				4.91	4.77	4.82			5.15	4.95	5.06			
K-T	mg/L				5.05	4.84	5.1			5.36	5.15	5.27			
Li-D	mg/L				0.0136	0.0125	0.013			0.0117	0.0139	0.0128			
Li-T	mg/L				0.0138	0.0104	0.0135			0.013	0.0153	0.0119			
Mg-D	mg/L				15	14.5	16.4			16.6	15.6	16.7			
Mg-T	mg/L				15.1	15	16.3			16.6	16.9	17.1			
Mn-D	mg/L				0.561	0.603	0.608			0.661	0.689	0.684			
Mn-T	mg/L				0.54	0.583	0.614			0.687	0.695	0.721			
Mo-D	mg/L				<0.0010	<0.0010	<0.0010			<0.0010	<0.0010	<0.0010			
Mo-T	mg/L				<0.0010	<0.0010	<0.0010			<0.0010	<0.0010	<0.0010			
Na-D	mg/L				308	280	304			304	291	297			
Na-T	mg/L				285	299	309			305	303	322			
Ni-D	mg/L				0.002	0.0023	0.0028			0.0033	0.0033	0.0033			
Ni-T	mg/L				0.0019	0.0024	0.0029			0.0034	0.0036	0.0036			
Pb-D	mg/L				<0.00020	<0.00020	<0.00020			<0.00020	<0.00020	<0.00020			
Pb-T	mg/L				<0.00020	<0.00020	<0.00020			<0.00020	<0.00020	<0.00020			
Sb-D	mg/L				<0.00050	<0.00050	<0.00050			<0.00050	<0.00050	<0.00050			
Sb-T	mg/L				<0.00050	<0.00050	<0.00050			<0.00050	<0.00050	<0.00050			
S-D	mg/L				224	204	218			229	218	220			
Se-D	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			
Se-T	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			
Si-D	mg/L				3.22	3.3	3			3.36	3.15	3.01			
Si-T	mg/L				3.38	3.02	3.04			3.54	3.66	3.16			
Sn-D	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Sn-T	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Sr-D	mg/L				1.45	1.53	1.3			1.44	1.55	1.47			
Sr-T	mg/L				1.35	1.48	1.33			1.56	1.48	1.48			
S-T	mg/L				215	214	221			241	242	230			
Ti-D	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Ti-T	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Th-D	mg/L				<0.000010	<0.000010	<0.000010			<0.000010	<0.000010	<0.000010			
Th-T	mg/L				<0.000010	<0.000010	<0.000010			<0.000010	<0.000010	<0.000010			
U-D	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			
U-T	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			
V-D	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
V-T	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Zn-D	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Zn-T	mg/L				<0.0050	<0.0050	<0.0050			<0.0050	<0.0050	<0.0050			
Zr-D	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			
Zr-T	mg/L				<0.00010	<0.00010	<0.00010			<0.00010	<0.00010	<0.00010			

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet												
Date												
Sample Class												
udf_LabRptNo												
Parameter	Unit	Trigger 1 (T1)		Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
	Stn.Code											
Acidity83	mg/L			31	2.86	2.04	<1.0	13.4	14	1	2.3	3.3
Alk-T	mg/L			37	472.4	472.2	430	510	0	460	470	480
DO-F	mg/L	(>6.99)		54	11.23	10.35	8.2	76.6	0	9.62	10.18	10.43
ORP-F	mV			53	156.2	150.1	-52.4	246.4	0	151	170.3	198.9
pH-F	pH Units	6.5 - 9		54	7.16	7.16	6.57	7.55	0	7.09	7.21	7.29
Temp-F	C			54	8.020	7.982	6.71	9.557	0	7.465	8.04	8.545
Cond-F	uS/cm			54	2054.7	1972.9	136	2514.5	0	1841	2058.4	2369.7
Br-D	mg/L			41	0.0176	0.0154	<0.010	<0.10	11	0.01	0.014	0.019
Cl-D	mg/L			41	7.5	7.1	4	12	0	5.3	7.1	9.7
Carb	mg/L			37	1.00	1.00	<1.0	<1.0	37	1	1	1
DOC	mg/L			9	0.92	0.92	0.78	1.1	0	0.86	0.91	0.96
F-D	mg/L			41	0.0654	0.0648	<0.050	0.087	4	0.056	0.066	0.074
H2S	mg/L											
Turb-F	NTU			53	41.89	36.70	-11.01	108.65	0	23.9	35.18	62.7
TSS	mg/L	20	25	52	8.13	7.04	<1.0	22	1	5.2	6.4	11
SO4-D	mg/L	1057	1321	49	682	677	530	830	0	630	660	750
Ag-D	mg/L			53	0.0000294	0.0000277	<0.000020	<0.000040	53	2.00E-05	2.00E-05	4.00E-05
Ag-T	mg/L			53	0.0000287	0.0000270	<0.000020	<0.000040	53	2.00E-05	2.00E-05	4.00E-05
Al-D	mg/L			53	0.00494	0.00431	<0.0030	0.0333	51	0.003	0.003	0.006
Al-T	mg/L			53	0.02057	0.01323	<0.0030	0.132	3	0.0068	0.0139	0.0235
As-D	mg/L	0.073	0.091	53	0.00089	0.00081	0.0003	0.00172	0	0.00057	0.0008	0.00121
As-T	mg/L			53	0.00158	0.00152	0.00079	0.0023	0	0.00137	0.00161	0.00187
Ba-D	mg/L			53	0.0255	0.0238	0.0183	0.119	0	0.0205	0.0217	0.025
Ba-T	mg/L			53	0.0272	0.0257	0.0187	0.115	0	0.0218	0.0236	0.0281
B-D	mg/L			53	1.048	1.041	0.803	1.31	0	0.959	1.06	1.14
Be-D	mg/L			53	0.000147	0.000139	<0.00010	<0.00020	53	0.0001	0.0001	0.0002
Be-T	mg/L			53	0.000143	0.000135	<0.00010	<0.00020	53	0.0001	0.0001	0.0002
Bi-D	mg/L			53	0.00147	0.00139	<0.0010	<0.0020	53	0.001	0.001	0.002
Bi-T	mg/L			53	0.00143	0.00135	<0.0010	<0.0020	53	0.001	0.001	0.002
B-T	mg/L			53	1.011	1.002	0.807	1.51	0	0.904	0.997	1.08
Ca-D	mg/L			53	152.5	151.4	121	189	0	139	149	166
Ca-T	mg/L			52	149.9	148.8	121	196	0	133	146.5	162.5
Cd-D	mg/L			53	0.0000160	0.0000145	<0.000010	0.000062	50	1.00E-05	1.00E-05	2.00E-05
Cd-T	mg/L			53	0.0000158	0.0000144	<0.000010	0.000064	45	1.00E-05	1.20E-05	2.00E-05
Co-D	mg/L			53	0.001066	0.000929	<0.00040	0.00264	7	0.00068	0.00102	0.00139
Co-T	mg/L			53	0.001066	0.000928	<0.00040	0.00278	7	0.00065	0.00095	0.00135
Cr-D	mg/L			53	0.00147	0.00139	<0.0010	<0.0020	53	0.001	0.001	0.002
Cr-T	mg/L			53	0.00143	0.00135	<0.0010	<0.0020	53	0.001	0.001	0.002
Cu-D	mg/L			53	0.000304	0.000282	<0.00020	0.00084	51	0.0002	0.0002	0.0004
Cu-T	mg/L			53	0.00135	0.00128	0.00068	0.0041	12	0.001	0.00126	0.00154

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet												
Date												
Sample Class												
udf_LabRptNo												
Parameter	Unit	Trigger 1 (T1)		Count	Average	Geometric mean	Minimum	Maximum	Count <DL	First quartile	Median	Third quartile
	Stn.Code											
Fe-D	mg/L			53	0.4644	0.2557	<0.010	5.57	1	0.139	0.406	0.548
Fe-T	mg/L	2.5	3.1	53	3.26	2.95	1.31	7.92	0	2.07	2.79	3.97
Hard-D	mg/L			53	457	454	362	562	0	419	449	502
Hard-T	mg/L			53	449	446	359	583	0	400	441	486
K-D	mg/L			53	5.79	5.76	4.77	7.48	0	5.4	5.76	6.14
K-T	mg/L			52	5.67	5.65	4.75	6.71	0	5.31	5.64	6.07
Li-D	mg/L			53	0.0147	0.0145	0.0113	0.0189	0	0.013	0.0143	0.0162
Li-T	mg/L			53	0.0145	0.0143	0.0104	0.0201	0	0.0126	0.0138	0.0157
Mg-D	mg/L			53	18.7	18.5	13.8	23.4	0	16.4	19	20.9
Mg-T	mg/L			52	18.3	18.1	13.8	25.3	0	16.3	17.9	20.2
Mn-D	mg/L			53	0.721	0.711	0.536	0.985	0	0.621	0.688	0.822
Mn-T	mg/L			53	0.710	0.699	0.493	0.964	0	0.604	0.695	0.798
Mo-D	mg/L			53	0.00147	0.00139	<0.0010	<0.0020	53	0.001	0.001	0.002
Mo-T	mg/L			53	0.00143	0.00135	<0.0010	<0.0020	53	0.001	0.001	0.002
Na-D	mg/L			53	346	345	273	419	0	312	356	369
Na-T	mg/L			52	340	338	269	425	0	308	341	363
Ni-D	mg/L			53	0.00201	0.00195	<0.0010	0.0033	27	0.002	0.002	0.002
Ni-T	mg/L			53	0.00196	0.00188	<0.0010	0.0036	28	0.0017	0.002	0.002
Pb-D	mg/L			53	0.000294	0.000277	<0.00020	<0.00040	53	0.0002	0.0002	0.0004
Pb-T	mg/L			53	0.000287	0.000270	<0.00020	<0.00040	53	0.0002	0.0002	0.0004
Sb-D	mg/L			53	0.000736	0.000693	<0.00050	<0.0010	53	0.0005	0.0005	0.001
Sb-T	mg/L			53	0.000717	0.000675	<0.00050	<0.0010	53	0.0005	0.0005	0.001
S-D	mg/L			53	258	256	204	306	0	238	261	281
Se-D	mg/L			53	0.000147	0.000139	<0.00010	<0.00020	53	0.0001	0.0001	0.0002
Se-T	mg/L			53	0.000143	0.000135	<0.00010	<0.00020	53	0.0001	0.0001	0.0002
Si-D	mg/L			53	3.23	3.22	2.78	3.86	0	3.04	3.2	3.38
Si-T	mg/L			53	3.34	3.33	2.8	4	0	3.1	3.31	3.6
Sn-D	mg/L			53	0.00736	0.00693	<0.0050	<0.010	53	0.005	0.005	0.01
Sn-T	mg/L			53	0.00717	0.00675	<0.0050	<0.010	53	0.005	0.005	0.01
Sr-D	mg/L			53	1.59	1.58	1.26	2.01	0	1.45	1.55	1.73
Sr-T	mg/L			53	1.59	1.57	1.24	2.14	0	1.4	1.56	1.75
S-T	mg/L			52	256	253	190	329	0	229	258	281
Ti-D	mg/L			53	0.00736	0.00693	<0.0050	<0.010	53	0.005	0.005	0.01
Ti-T	mg/L			53	0.00729	0.00686	<0.0050	0.011	51	0.005	0.005	0.01
Tl-D	mg/L			53	0.0000148	0.0000139	<0.000010	0.000022	52	1.00E-05	1.00E-05	2.00E-05
Tl-T	mg/L			53	0.0000145	0.0000137	<0.000010	0.00002	52	1.00E-05	1.00E-05	2.00E-05
U-D	mg/L			53	0.000159	0.000145	<0.00010	0.00066	46	0.0001	0.00011	0.0002
U-T	mg/L			53	0.000157	0.000144	<0.00010	0.00063	44	0.0001	0.00012	0.0002
V-D	mg/L			53	0.00736	0.00693	<0.0050	<0.010	53	0.005	0.005	0.01
V-T	mg/L			53	0.00717	0.00675	<0.0050	<0.010	53	0.005	0.005	0.01
Zn-D	mg/L			53	0.00736	0.00693	<0.0050	<0.010	53	0.005	0.005	0.01
Zn-T	mg/L			53	0.00717	0.00675	<0.0050	<0.010	53	0.005	0.005	0.01
Zr-D	mg/L			53	0.000147	0.000139	<0.00010	<0.00020	53	0.0001	0.0001	0.0002
Zr-T	mg/L			53	0.000143	0.000135	<0.00010	<0.00020	53	0.0001	0.0001	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet									
Date									
Sample Class									
udf_LabRptNo									
Parameter	Unit	Count of Results Exceeding Trigger 2		Percent of Results Exceeding Trigger 2		10th Percentile	50th Percentile	90th Percentile	95th Percentile
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)						
Acidity83	mg/L			0	0.0	1	2.3	5.1	8.3
Alk-T	mg/L			0	0.0	456	470	500	500
DO-F	mg/L	(>6.99)		0	0.0	8.89	10.18	10.85	11.7
ORP-F	mV			0	0.0	38.9	170.3	227.2	229.3
pH-F	pH Units	6.5 - 9		0	0.0	6.89	7.21	7.35	7.37
Temp-F	C			0	0.0	6.858	8.04	9.004	9.322
Cond-F	uS/cm			0	0.0	1739.9	2058.4	2454.3	2467.5
Br-D	mg/L			0	0.0	0.01	0.014	0.025	0.025
Cl-D	mg/L			0	0.0	4.6	7.1	11	12
Carb	mg/L			0	0.0	1	1	1	1
DOC	mg/L			0	0.0	0.82	0.91	1.02	1.06
F-D	mg/L			0	0.0	0.053	0.066	0.076	0.078
H2S	mg/L								
Turb-F	NTU			0	0.0	16.21	35.18	70.55	82.06
TSS	mg/L	20	25	0	0.0	4.04	6.4	13	14.9
SO4-D	mg/L	1057	1321	0	0.0	578	660	790	796
Ag-D	mg/L			0	0.0	2.00E-05	2.00E-05	4.00E-05	4.00E-05
Ag-T	mg/L			0	0.0	2.00E-05	2.00E-05	4.00E-05	4.00E-05
Al-D	mg/L			0	0.0	0.003	0.003	0.006	0.006
Al-T	mg/L			0	0.0	0.00464	0.0139	0.0415	0.06158
As-D	mg/L	0.073	0.091	0	0.0	0.00044	0.0008	0.00147	0.00154
As-T	mg/L			0	0.0	0.00091	0.00161	0.00211	0.00217
Ba-D	mg/L			0	0.0	0.0197	0.0217	0.0294	0.034
Ba-T	mg/L			0	0.0	0.0206	0.0236	0.0318	0.0359
B-D	mg/L			0	0.0	0.88	1.06	1.198	1.278
Be-D	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002
Be-T	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002
Bi-D	mg/L			0	0.0	0.001	0.001	0.002	0.002
Bi-T	mg/L			0	0.0	0.001	0.001	0.002	0.002
B-T	mg/L			0	0.0	0.846	0.997	1.178	1.206
Ca-D	mg/L			0	0.0	132.2	149	178.6	181.4
Ca-T	mg/L			0	0.0	128.1	146.5	178	182.4
Cd-D	mg/L			0	0.0	1.00E-05	1.00E-05	2.00E-05	2.00E-05
Cd-T	mg/L			0	0.0	1.00E-05	1.20E-05	2.00E-05	2.00E-05
Co-D	mg/L			0	0.0	0.0004	0.00102	0.00179	0.00222
Co-T	mg/L			0	0.0	0.0004	0.00095	0.00185	0.00227
Cr-D	mg/L			0	0.0	0.001	0.001	0.002	0.002
Cr-T	mg/L			0	0.0	0.001	0.001	0.002	0.002
Cu-D	mg/L			0	0.0	0.0002	0.0002	0.0004	0.0004
Cu-T	mg/L			0	0.0	0.00092	0.00126	0.00187	0.00208

Attachment 1
River Barrier Pillar Passive Treatment System
Table 8

River Barrier Pillar Outlet									
Date									
Sample Class									
udf_LabRptNo									
Parameter	Unit	Count of Results Exceeding Trigger 2		Percent of Results Exceeding Trigger 2		10th Percentile	50th Percentile	90th Percentile	95th Percentile
	Stn.Code	Trigger 1 (T1)	Trigger 2 (T2)						
Fe-D	mg/L			0	0.0	0.0538	0.406	0.6916	0.7534
Fe-T	mg/L	2.5	3.1	19	35.8	1.71	2.79	5.63	6.41
Hard-D	mg/L			0	0.0	394	449	536	539
Hard-T	mg/L			0	0.0	382	441	535	543
K-D	mg/L			0	0.0	5.07	5.76	6.44	6.53
K-T	mg/L			0	0.0	4.97	5.64	6.34	6.44
Li-D	mg/L			0	0.0	0.0125	0.0143	0.0177	0.0186
Li-T	mg/L			0	0.0	0.0119	0.0138	0.0183	0.0194
Mg-D	mg/L			0	0.0	15.1	19	21.9	22.2
Mg-T	mg/L			0	0.0	15	17.9	21.8	22.8
Mn-D	mg/L			0	0.0	0.572	0.688	0.91	0.925
Mn-T	mg/L			0	0.0	0.553	0.695	0.879	0.941
Mo-D	mg/L			0	0.0	0.001	0.001	0.002	0.002
Mo-T	mg/L			0	0.0	0.001	0.001	0.002	0.002
Na-D	mg/L			0	0.0	300	356	382	390
Na-T	mg/L			0	0.0	292	341	393	403
Ni-D	mg/L			0	0.0	0.0015	0.002	0.0027	0.00306
Ni-T	mg/L			0	0.0	0.00108	0.002	0.0028	0.00316
Pb-D	mg/L			0	0.0	0.0002	0.0002	0.0004	0.0004
Pb-T	mg/L			0	0.0	0.0002	0.0002	0.0004	0.0004
Sb-D	mg/L			0	0.0	0.0005	0.0005	0.001	0.001
Sb-T	mg/L			0	0.0	0.0005	0.0005	0.001	0.001
S-D	mg/L			0	0.0	214	261	297	301
Se-D	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002
Se-T	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002
Si-D	mg/L			0	0.0	2.94	3.2	3.62	3.66
Si-T	mg/L			0	0.0	2.9	3.31	3.82	3.87
Sn-D	mg/L			0	0.0	0.005	0.005	0.01	0.01
Sn-T	mg/L			0	0.0	0.005	0.005	0.01	0.01
Sr-D	mg/L			0	0.0	1.36	1.55	1.87	1.91
Sr-T	mg/L			0	0.0	1.34	1.56	1.9	1.95
S-T	mg/L			0	0.0	214	258	292	307
Ti-D	mg/L			0	0.0	0.005	0.005	0.01	0.01
Ti-T	mg/L			0	0.0	0.005	0.005	0.01	0.01
Tl-D	mg/L			0	0.0	1.00E-05	1.00E-05	2.00E-05	2.00E-05
Tl-T	mg/L			0	0.0	1.00E-05	1.00E-05	2.00E-05	2.00E-05
U-D	mg/L			0	0.0	0.0001	0.00011	0.0002	0.0002
U-T	mg/L			0	0.0	0.0001	0.00012	0.0002	0.0002
V-D	mg/L			0	0.0	0.005	0.005	0.01	0.01
V-T	mg/L			0	0.0	0.005	0.005	0.01	0.01
Zn-D	mg/L			0	0.0	0.005	0.005	0.01	0.01
Zn-T	mg/L			0	0.0	0.005	0.005	0.01	0.01
Zr-D	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002
Zr-T	mg/L			0	0.0	0.0001	0.0001	0.0002	0.0002

Attachment 1
River Barrier Pillar Passive Treatment System
Table 9

River Barrier Pillar Iron Results Above Trigger's

November 17th, 2025 to March 31st, 2026

Date	RBP1	SP1	SP2	SP3S	SP3C	RBPO	Trigger 3.1	WQG	% Reduction (RBP1 -RBP)
20-Nov-25	15.1	13	10.3			1.58	3.1	1.00	89.54%
21-Nov-25	14.6	14.1	11.8			2.48	3.1	1.00	83.01%
22-Nov-25	15.7	14.8	11.7			3.77	3.1	1.00	75.99%
23-Nov-25	16.2	14.6	12.1			4.25	3.1	1.00	73.77%
24-Nov-25	15.6	14	12.2			6.98	3.1	1.00	55.26%
25-Nov-25	16.6	13.2	12.8			7.92	3.1	1.00	52.29%
27-Nov-25	15.6	13	11.9			5.67	3.1	1.00	63.65%
28-Nov-25	13.3					6.28	3.1	1.00	52.78%
29-Nov-25	11.3					6.25	3.1	1.00	44.69%
30-Nov-25							3.1	1.00	#N/A
01-Dec-2025	12.80					2.68	3.1	1.00	79.06%
2-Dec-25							3.1	1.00	#N/A
3-Dec-25	11.7	9.07	7.24			2.39	3.1	1.00	79.57%
4-Dec-25	9.57				3.38	2.42	3.1	1.00	74.71%
5-Dec-25	9.92			4.03	2.82	2.74	3.1	1.00	72.38%
6-Dec-25	8.82				2.6	2.27	3.1	1.00	74.26%
7-Dec-25	9.09	7.91	7	4.44	2.7	2.36	3.1	1.00	74.04%
8-Dec-25	9.67	8.01	7.61	5.95	4.3	3.66	3.1	1.00	62.15%
9-Dec-25	9.11	8.39	7.49	5.82	4.31	3.93	3.1	1.00	56.86%
10-Dec-25	8.78	7.48	7.04	5.61	4.7	4.76	3.1	1.00	45.79%
11-Dec-25	8.78	8.2	7.22	5.47	4.78	6.61	3.1	1.00	24.72%
12-Dec-25	7.5	7.39	6.53	5.32	4.37	4.37	3.1	1.00	41.73%
13-Dec-25							3.1	1.00	#N/A
14-Dec-25	7.85	7.17	6.59	5.61	4.69	4.41	3.1	1.00	43.82%
15-Dec-25	8.19	7.43	6.91	5.77	4.98	5.18	3.1	1.00	36.75%
16-Dec-25	6.71						3.1	1.00	#N/A
17-Dec-25	7.06	6.08	5.34	4.81	4.07	3.97	3.1	1.00	43.77%
18-Dec-25	7.24	6.4	5.75	4.99	4.34	5.45	3.1	1.00	24.72%
19-Dec-25	6.88	6.25	5.66	4.82	4.32		3.1	1.00	#N/A
20-Dec-25							3.1	1.00	#N/A
21-Dec-25							3.1	1.00	#N/A
22-Dec-25	6	4.79	4.37	4.24	4.31		3.1	1.00	#N/A
23-Dec-25	5.83			4.1	3.42	3.53	3.1	1.00	39.45%
24-Dec-25	5.52	4.8	4.52	3.87	3.59	3.54	3.1	1.00	35.87%
25-Dec-25							3.1	1.00	#N/A
26-Dec-25							3.1	1.00	#N/A
27-Dec-25							3.1	1.00	#N/A
28-Dec-25	4.14	3.88	3.69	3.22	2.88	2.87	3.1	1.00	30.68%
29-Dec-25							3.1	1.00	#N/A
30-Dec-25	4.41	4.12	3.52	3.17	2.93	2.98	3.1	1.00	32.43%
31-Dec-25	4.84	4.31	4	3.46	3.1	2.91	3.1	1.00	39.88%
01-Jan-2026							3.1	1.00	#N/A
2-Jan-26							3.1	1.00	#N/A
3-Jan-26	4.46	4.03			2.92	2.79	3.1	1.00	37.44%
4-Jan-26							3.1	1.00	#N/A
5-Jan-26	4.76						3.1	1.00	#N/A
06-Jan-2026	4.40	4.00	3.65	3.14	2.63	2.78	3.1	1.00	36.82%
07-Jan-2026	4.39	3.98	3.75	3.23	2.72	2.81	3.1	1.00	35.99%
08-Jan-2026	4.17	4.11	3.63	3.37	2.64	2.47	3.1	1.00	40.77%
17-Jan-2026	5.14	5.62	4.55	3.95	2.82	2.77	3.1	1.00	46.11%
19-Jan-2026	4.37	4.24	3.73	3.10	2.70	2.99	3.1	1.00	31.58%
20-Jan-2026	4.05	4.22	3.62	4.30	2.74	2.80	3.1	1.00	30.86%
21-Jan-2026	4.96	4.59	4.24	3.60	3.13	3.09	3.1	1.00	37.70%
22-Jan-2026	3.68	3.82	3.72	3.25	2.84	2.86	3.1	1.00	22.28%
26-Jan-2026	3.23	2.99	3.06	2.66	2.39	2.58	3.1	1.00	20.12%
29-Jan-2026	2.98	3.10	2.71	2.64	2.34	2.33	3.1	1.00	21.81%
05-Feb-2026	2.32	2.41	2.71	2.12	1.96	2.04	3.1	1.00	12.07%
09-Feb-2026	2.51	2.40	2.28	2.07	1.96	1.84	3.1	1.00	26.69%
23-Feb-2026	3.07	2.73	2.59	0.40	1.47	1.31	3.1	1.00	57.33%
25-Feb-2026	3.12	3.02	2.90	2.72	1.89	1.73	3.1	1.00	44.55%
02-Mar-2026	3.08	3.13	3.04	2.65	1.86	1.71	3.1	1.00	44.48%
04-Mar-2026	2.78	2.61	2.48	2.13	1.57	1.56	3.1	1.00	43.88%
09-Mar-2026	2.87	2.68	2.47	2.10	1.57	1.59	3.1	1.00	44.60%
11-Mar-2026	3.09	2.93	2.55	2.23	1.61	1.60	3.1	1.00	48.22%
16-Mar-2026	3.02	2.54	2.54	2.42	1.78	1.78	3.1	1.00	41.06%
18-Mar-2026	3.23	2.90	2.83	0.84	1.90	1.89	3.1	1.00	41.49%
23-Mar-2026	2.74	2.43	2.29	2.13	1.80	1.76	3.1	1.00	35.77%
25-Mar-2026	2.98	2.75	2.57	2.35	1.99	1.96	3.1	1.00	34.23%
30-Mar-2026	2.99	2.83	2.71	2.50	2.08	2.07	3.1	1.00	30.77%

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		20-Nov-25	21-Nov-25	22-Nov-25	23-Nov-25	24-Nov-25	
pH-F	pH Units	7.19	7.47	7.32	7.44	7.67	
Cond-F	uS/cm	98.2	115.8	145.5	111.9	84.3	
Temp-F	C	8.01	7.8	8.031	7.428	7.7	
Br-D	mg/L	<0.010	0.028	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	17	19	19	13	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	
Alk-T	mg/L		29	30	36	29	27
Al-T	mg/L	0.28	0.0254	0.0249	0.025	0.024	0.0242
As-T	mg/L	0.005	0.000176	0.000161	0.000163	0.000156	0.000135
Ba-T	mg/L		0.0023	0.0027	0.00289	0.0028	0.00159
B-T	mg/L	1.2	0.026	0.028	0.029	0.028	0.022
Bicarb	mg/L		35	36	44	35	32
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.9	10.9	11.4	11.1	9.91
Cr-T	mg/L	0.0025	0.00014	0.00014	0.00014	0.00014	0.00014
Co-T	mg/L	0.004	0.0000248	0.0000186	0.0000194	0.0000177	0.0000171
Cu-T	mg/L		0.000548	0.000541	0.000524	0.000506	0.000524
Hard-T	mg/L		32.9	32.9	34.6	33.7	29.9
Fe-T	mg/L	1	0.0348	0.0322	0.0348	0.0329	0.0303
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.4	1.4	1.48	1.46	1.24
Mn-T	mg/L	0.86	0.00454	0.00378	0.00449	0.00376	0.00416
Mo-T	mg/L		0.00016	0.000157	0.000156	0.00015	0.000159
Ni-T	mg/L		0.000064	0.00007	0.000069	0.000068	0.000067
K-T	mg/L		0.163	0.165	0.175	0.173	0.13
S-T	mg/L		5.5	6.2	6.2	6.1	4.1
Se-T	mg/L	0.002	0.000054	0.000048	0.000054	0.000051	0.000058
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		6.04	6.79	7.33	7.6	5.04
Sr-T	mg/L		0.0426	0.045	0.0452	0.0437	0.0351
Zn-T	mg/L		0.00021	0.00019	0.00018	0.00029	0.00022
Al-D	mg/L		0.0192	0.0195	0.0188	0.0197	0.0188
As-D	mg/L		0.000161	0.000159	0.000175	0.000172	0.000148
Ba-D	mg/L		0.00227	0.00271	0.003	0.00291	0.00157
B-D	mg/L		0.024	0.025	0.027	0.027	0.021
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		11	11	10.8	10	9.16
Cr-D	mg/L		0.00015	0.00015	0.00014	0.00017	0.00014
Co-D	mg/L		0.0000149	0.0000172	0.0000171	0.0000168	0.000016
Cu-D	mg/L	0.001	0.000576	0.000555	0.000561	0.000579	0.000557
Hard-D	mg/L		33	33.2	32.9	30.8	27.7
DOC	mg/L		2.8	2.8	2.9	2.8	2.7
Fe-D	mg/L		0.023	0.028	0.0241	0.0223	0.0225
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.34	1.39	1.42	1.4	1.16
Mn-D	mg/L		0.00235	0.00248	0.00233	0.00233	0.00335
Mo-D	mg/L		0.000199	0.00018	0.000185	0.000196	0.000202
Ni-D	mg/L	0.0017	0.000062	0.000063	0.000068	0.000072	0.000059
K-D	mg/L		0.161	0.168	0.179	0.174	0.13
S-D	mg/L		5.1	5.9	6.4	5.9	3.9
Se-D	mg/L		0.000048	0.000046	0.000055	0.000048	0.00005
Na-D	mg/L		5.7	6.54	7.36	7.26	4.87
Sr-D	mg/L		0.0409	0.0442	0.048	0.0463	0.0337
Zn-D	mg/L	0.012	0.00094	0.00119	0.001	0.00092	0.00074

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		25-Nov-25	26-Nov-25	27-Nov-25	2-Dec-25	4-Dec-25	
pH-F	pH Units	7.14	6.75	6.55	7.29	7.69	
Cond-F	uS/cm	81.5	86.6	85.9	82.6	72.8	
Temp-F	C	6.9	6.9	6.75	8.3	6.3	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010		
Cl-D	mg/L	150	<1.0	<1.0	<1.0		
F-D	mg/L	1.1	<0.050	<0.050	<0.050		
SO4-D	mg/L	218	13	13	10	9.6	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	
Alk-T	mg/L		28	28	28	26	
Al-T	mg/L	0.28	0.0217	0.0231	0.0225	0.0231	0.0206
As-T	mg/L	0.005	0.000174	0.000137	0.000134	0.00012	0.000132
Ba-T	mg/L		0.00155	0.00156	0.00160	0.0014	0.0015
B-T	mg/L	1.2	0.022	0.021	0.021	<0.050	0.014
Bicarb	mg/L		34	34	34	32	
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Ca-T	mg/L		9.62	9.33	9.95	8.56	9.03
Cr-T	mg/L	0.0025	0.00015	0.00015	0.00017	<0.0010	0.00013
Co-T	mg/L	0.004	0.0000174	0.0000182	0.0000212	<0.00020	0.0000174
Cu-T	mg/L		0.000576	0.000582	0.000604	0.00057	0.000552
Hard-T	mg/L		28.7	28.2	30.0	25.6	26.8
Fe-T	mg/L	1	0.0313	0.0325	0.0337	0.032	0.0358
Pb-T	mg/L		<0.0000050	0.000005	<0.0000050	<0.00020	<0.0000050
Mg-T	mg/L		1.13	1.19	1.26	1.01	1.04
Mn-T	mg/L	0.86	0.00453	0.00452	0.00470	0.0042	0.00483
Mo-T	mg/L		0.00016	0.000161	0.000158	<0.0010	0.000172
Ni-T	mg/L		0.000076	0.000086	0.000083	<0.0010	0.000063
K-T	mg/L		0.128	0.135	0.132	0.115	0.114
S-T	mg/L		4.2	4.2	4.1	<3.0	3.2
Se-T	mg/L	0.002	0.000053	0.000052	0.000059	<0.00010	0.000052
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.000020	<0.0000050
Na-T	mg/L		4.9	4.96	4.82	3.66	3.47
Sr-T	mg/L		0.0373	0.0345	0.0344	0.0308	0.0289
Zn-T	mg/L		0.00023	0.0006	0.00022	<0.0050	0.00021
Al-D	mg/L		0.0186	0.0208	0.0156	0.0152	0.0173
As-D	mg/L		0.000147	0.000123	0.000123	0.00013	0.00014
Ba-D	mg/L		0.00158	0.00147	0.00158	0.0014	0.00146
B-D	mg/L		0.023	0.02	0.018	<0.050	0.017
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Ca-D	mg/L		9.93	9.67	9.63	8.84	8.9
Cr-D	mg/L		0.00014	0.00015	0.00013	<0.0010	0.00013
Co-D	mg/L		0.0000157	0.000013	0.0000167	<0.00020	0.0000154
Cu-D	mg/L	0.001	0.000535	0.000531	0.000564	0.00039	0.000522
Hard-D	mg/L		29.6	28.8	28.5	26.2	26.7
DOC	mg/L		2.6	2.6	2.5	2.6	
Fe-D	mg/L		0.0211	0.0216	0.0218	0.0224	0.0245
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.00020	<0.0000050
Mg-D	mg/L		1.16	1.13	1.08	0.992	1.08
Mn-D	mg/L		0.00349	0.00359	0.00363	0.0036	0.00402
Mo-D	mg/L		0.000168	0.000199	0.000174	<0.0010	0.000186
Ni-D	mg/L	0.0017	0.000063	0.000051	0.000056	<0.0010	0.000067
K-D	mg/L		0.131	0.135	0.116	0.105	0.115
S-D	mg/L		4.2	4.7	3.9	<3.0	<3.0
Se-D	mg/L		0.000046	0.00004	0.000062	<0.00010	<0.000040
Na-D	mg/L		4.93	4.92	4.48	3.64	3.61
Sr-D	mg/L		0.0345	0.0367	0.0333	0.0294	0.0294
Zn-D	mg/L	0.012	0.00067	0.00064	0.00093	<0.0050	0.00079

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		5-Dec-25	6-Dec-25	7-Dec-25	8-Dec-25	9-Dec-25	
pH-F	pH Units	7.54	7.58	7.68	6.57	7.27	
Cond-F	uS/cm	72.8	77	75.8	79.5	76.9	
Temp-F	C	6.4	5.8	5.8	6.9	5.9	
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	9.5	9.1	9.4	13	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	
Alk-T	mg/L		25	25	28	26	
Al-T	mg/L	0.28	0.0236	0.0221	0.0215	0.0218	0.0264
As-T	mg/L	0.005	0.000133	0.000143	0.000139	0.000143	0.000181
Ba-T	mg/L		0.00154	0.00151	0.00148	0.00154	0.00187
B-T	mg/L	1.2	0.019	0.016	0.015	0.016	0.021
Bicarb	mg/L			31	30	34	31
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.07	8.99	8.55	8.88	10.7
Cr-T	mg/L	0.0025	<0.00010	<0.00010	0.0001	<0.00010	<0.00010
Co-T	mg/L	0.004	0.0000222	0.0000193	0.0000173	0.0000189	0.0000224
Cu-T	mg/L		0.000661	0.00058	0.000582	0.000586	0.000597
Hard-T	mg/L		27.5	27	25.7	26.5	31.8
Fe-T	mg/L	1	0.0382	0.038	0.0415	0.0386	0.047
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.17	1.1	1.05	1.06	1.26
Mn-T	mg/L	0.86	0.00549	0.00528	0.00505	0.00506	0.00553
Mo-T	mg/L		0.000174	0.000171	0.000172	0.000163	0.000158
Ni-T	mg/L		0.00007	0.000056	0.000072	0.000069	0.000072
K-T	mg/L		0.121	0.118	0.114	0.114	0.123
S-T	mg/L		3.4	3.3	3.1	3.2	4.1
Se-T	mg/L	0.002	0.000053	0.000058	0.000054	0.000054	0.000047
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		3.94	3.52	3.34	3.36	3.88
Sr-T	mg/L		0.0303	0.0287	0.0276	0.0284	0.0361
Zn-T	mg/L		0.00017	<0.00010	<0.00010	<0.00010	<0.00010
Al-D	mg/L		0.0183	0.0175	0.0171	0.017	0.0206
As-D	mg/L		0.000127	0.000141	0.000135	0.000137	0.000176
Ba-D	mg/L		0.00148	0.00148	0.00149	0.00149	0.00184
B-D	mg/L		0.019	0.016	0.015	0.016	0.021
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		8.79	8.75	8.45	8.78	9.82
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000165	0.0000153	0.0000154	0.0000149	0.0000209
Cu-D	mg/L	0.001	0.000583	0.000582	0.00058	0.00056	0.000562
Hard-D	mg/L		26.6	26.2	25.4	26.3	29.7
DOC	mg/L			2.5	2.5	2.4	2.8
Fe-D	mg/L		0.0239	0.0251	0.0235	0.0258	0.0327
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000089
Mg-D	mg/L		1.12	1.07	1.04	1.06	1.26
Mn-D	mg/L		0.00406	0.00381	0.00387	0.00381	0.00424
Mo-D	mg/L		0.000205	0.000182	0.000186	0.000173	0.000188
Ni-D	mg/L	0.0017	0.000067	0.000062	0.000059	0.000064	0.000069
K-D	mg/L		0.112	0.114	0.11	0.109	0.123
S-D	mg/L		3.3	3.3	3	3.1	4
Se-D	mg/L		0.000045	0.000051	0.000051	0.000051	0.00005
Na-D	mg/L		3.95	3.42	3.15	3.18	3.72
Sr-D	mg/L		0.03	0.0288	0.0272	0.028	0.0358
Zn-D	mg/L	0.012	0.00063	0.00029	0.00087	0.00042	0.00053

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		10-Dec-25	11-Dec-25	12-Dec-25	14-Dec-25	15-Dec-25	
pH-F	pH Units	7.01	6.93	6.6	6.96	7.07	
Cond-F	uS/cm	88.7	84	79	67.3	93.4	
Temp-F	C	7.5	7.4	6	7.4	8.1	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	15	14	13	9.4	16
TSS	mg/L	2.4	<1.0	<1.0	1.2	1.6	<1.0
Alk-T	mg/L		25	22	24	23	26
Al-T	mg/L	0.28	0.0331	0.0368	0.0416	0.0432	0.0394
As-T	mg/L	0.005	0.000213	0.000211	0.000210	0.000175	0.000201
Ba-T	mg/L		0.00262	0.00207	0.00198	0.00198	0.00227
B-T	mg/L	1.2	0.024	0.016	0.023	0.02	0.023
Bicarb	mg/L		30	27	29	28	32
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.61	9.38	9.55	10.3	10.6
Cr-T	mg/L	0.0025	0.0001	0.00011	<0.00010	0.00019	0.00011
Co-T	mg/L	0.004	0.0000201	0.0000249	0.0000276	0.000031	0.000022
Cu-T	mg/L		0.00055	0.0006	0.000610	0.00119	0.000697
Hard-T	mg/L		29.3	28.3	28.8	30.8	32
Fe-T	mg/L	1	0.058	0.0632	0.0577	0.068	0.06
Pb-T	mg/L		0.0000193	<0.0000050	0.0000066	0.000029	0.000007
Mg-T	mg/L		1.3	1.18	1.21	1.23	1.35
Mn-T	mg/L	0.86	0.00489	0.00461	0.00370	0.00365	0.00442
Mo-T	mg/L		0.000173	0.000165	0.000183	0.000254	0.00018
Ni-T	mg/L		0.000091	0.000095	0.000083	0.00011	0.00009
K-T	mg/L		0.138	0.126	0.135	<0.25	0.146
S-T	mg/L		4.9	4	4.1	3.9	5.2
Se-T	mg/L	0.002	0.000044	0.00005	0.000051	0.000062	0.000045
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Na-T	mg/L		4.47	3.92	4.28	4.29	4.77
Sr-T	mg/L		0.0422	0.0366	0.0373	0.0348	0.0433
Zn-T	mg/L		0.00019	0.00033	0.00015	<0.0010	0.00029
Al-D	mg/L		0.0239	0.0287	0.0317	0.0283	0.0275
As-D	mg/L		0.000198	0.000199	0.000221	0.000159	0.000194
Ba-D	mg/L		0.00202	0.00201	0.00205	0.0016	0.00219
B-D	mg/L		0.019	0.021	0.023	0.017	0.022
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		9.63	9.8	9.53	8.49	10.5
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000204	0.00002	0.0000233	0.0000175	0.0000164
Cu-D	mg/L	0.001	0.000436	0.000556	0.000574	0.00064	0.000582
Hard-D	mg/L		29.2	29.5	28.9	25.6	31.8
DOC	mg/L		3	3.3	3.2	2.9	3.1
Fe-D	mg/L		0.0412	0.0471	0.0429	0.0338	0.0387
Pb-D	mg/L		0.0000135	0.000006	<0.0000050	<0.0000050	0.0000065
Mg-D	mg/L		1.25	1.22	1.23	1.06	1.35
Mn-D	mg/L		0.00397	0.00339	0.00270	0.00222	0.00308
Mo-D	mg/L		0.000192	0.000289	0.000193	0.000318	0.000374
Ni-D	mg/L	0.0017	0.000084	0.000064	0.000073	0.00007	0.000082
K-D	mg/L		0.137	0.126	0.135	0.112	0.144
S-D	mg/L		4.6	4.1	4.3	<3.0	5
Se-D	mg/L		0.000046	0.000049	0.000041	0.000043	<0.000040
Na-D	mg/L		4.35	4.12	4.16	3.6	4.62
Sr-D	mg/L		0.0392	0.0385	0.0370	0.0284	0.0427
Zn-D	mg/L	0.012	0.00164	0.00192	0.00082	0.00125	0.00272

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		16-Dec-25	17-Dec-25	18-Dec-25	19-Dec-25	22-Dec-25	
pH-F	pH Units	7.08	7.18	7.54	6.91	7.65	
Cond-F	uS/cm	86.8	64.6	65.3	64.9	64.2	
Temp-F	C	7.3	6	6.1	6.1	4.7	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	13	9.5	9.2	7.9	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	
Alk-T	mg/L		22	21	23	20	
Al-T	mg/L	0.28	0.0511	0.0354	0.0513	0.0777	
As-T	mg/L	0.005	0.000166	0.000209	0.00014	0.000178	
Ba-T	mg/L		0.00205	0.00155	0.00182	0.00207	
B-T	mg/L	1.2	0.018	0.017	0.016	0.014	
Bicarb	mg/L		27	25	29	25	
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Ca-T	mg/L		8	9.58	8.6	7.97	
Cr-T	mg/L	0.0025	0.00013	0.0001	0.00011	0.00017	
Co-T	mg/L	0.004	0.00003	0.000022	0.000029	0.000045	
Cu-T	mg/L		0.00087	0.00097	0.000685	0.00141	
Hard-T	mg/L		24.6	28.1	25.9	24.2	
Fe-T	mg/L	1	0.0608	0.0277	0.0529	0.0949	
Pb-T	mg/L		0.000022	<0.000020	0.000006	0.00017	
Mg-T	mg/L		1.11	1.01	1.08	1.04	
Mn-T	mg/L	0.86	0.00395	0.00309	0.0033	0.00386	
Mo-T	mg/L		0.00016	0.000184	0.000173	0.000193	
Ni-T	mg/L		0.00011	<0.00010	0.000079	0.00017	
K-T	mg/L		<0.25	<0.25	0.113	<0.25	
S-T	mg/L		3.8	3.2	<3.0	<3.0	
Se-T	mg/L	0.002	<0.000040	0.00006	0.000057	0.000048	
Ag-T	mg/L		<0.000010	<0.000010	<0.0000050	<0.000010	
Na-T	mg/L		3	2.72	2.74	2.53	
Sr-T	mg/L		0.0332	0.0309	0.0293	0.0256	
Zn-T	mg/L		0.0021	<0.0010	0.00016	0.0019	
Al-D	mg/L		0.0323	0.0325	0.03	0.0288	
As-D	mg/L		0.000155	0.000173	0.000135	0.000148	
Ba-D	mg/L		0.00189	0.00166	0.00164	0.00147	
B-D	mg/L		0.021	0.017	0.013	0.015	
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Ca-D	mg/L		8.5	8.26	8.17	8.02	
Cr-D	mg/L		<0.00010	0.00011	<0.00010	<0.00010	
Co-D	mg/L		0.0000209	0.00002	0.000019	0.00002	
Cu-D	mg/L	0.001	0.00062	0.000626	0.000717	0.000613	
Hard-D	mg/L		25.9	24.8	24.7	24.2	
DOC	mg/L		3.3	3.2	3.1	3.1	
Fe-D	mg/L		0.0352	0.0315	0.0308	0.0274	
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Mg-D	mg/L		1.13	1.02	1.05	1.02	
Mn-D	mg/L		0.00254	0.00217	0.00195	0.00164	
Mo-D	mg/L		0.000245	0.000261	0.000336	0.000232	
Ni-D	mg/L	0.0017	0.000078	0.000069	0.000068	0.00006	
K-D	mg/L		0.131	0.114	0.115	0.106	
S-D	mg/L		3.8	<3.0	3.1	<3.0	
Se-D	mg/L		0.000048	0.000053	0.000047	0.000052	
Na-D	mg/L		3.4	2.71	2.62	2.38	
Sr-D	mg/L		0.0347	0.0307	0.0277	0.0239	
Zn-D	mg/L	0.012	0.00083	0.002	0.00107	0.00067	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		24-Dec-25	28-Dec-25	30-Dec-25	31-Dec-25	6-Jan-26	
pH-F	pH Units	7.68	7.06	7.57	7.6	7.06	
Cond-F	uS/cm	69.8	78.5	127.2	115.1	102.1	
Temp-F	C	4.9	4.1	4.45	4.429	4.4	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	8.3	10	11	19	
TSS	mg/L	2.4	<1.0	1.2	<1.0	<1.0	
Alk-T	mg/L		26	27	29	30	
Al-T	mg/L	0.28	0.0337	0.0794	0.0291	0.0257	0.0382
As-T	mg/L	0.005	0.000118	0.000165	0.00012	0.000118	0.000198
Ba-T	mg/L		0.00125	0.00212	0.00129	0.00134	0.00221
B-T	mg/L	1.2	0.018	0.021	0.021	0.023	0.026
Bicarb	mg/L		32	33	33	35	37
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		8.73	9.13	9.02	9.48	10.7
Cr-T	mg/L	0.0025	0.00012	0.00020	0.00013	<0.00010	0.0001
Co-T	mg/L	0.004	0.0000228	0.0000668	0.000023	0.0000182	0.000026
Cu-T	mg/L		0.000691	0.00105	0.000686	0.000656	0.000988
Hard-T	mg/L		26.1	27.5	27	28.1	32.7
Fe-T	mg/L	1	0.0324	0.117	0.0352	0.0291	0.0559
Pb-T	mg/L		<0.0000050	0.0000591	<0.0000050	<0.0000050	0.0000059
Mg-T	mg/L		1.06	1.13	1.09	1.08	1.43
Mn-T	mg/L	0.86	0.00293	0.00504	0.00354	0.00323	0.00511
Mo-T	mg/L		0.000181	0.000175	0.000173	0.000155	0.000166
Ni-T	mg/L		0.000076	0.000163	0.000075	0.000082	0.000071
K-T	mg/L		0.109	0.133	0.124	0.121	0.155
S-T	mg/L		<3.0	3.5	3.4	3.5	5.9
Se-T	mg/L	0.002	0.000064	0.000062	0.000056	0.00006	0.000049
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		3.64	4.43	4.54	4.92	5.99
Sr-T	mg/L		0.026	0.0293	0.0306	0.0302	0.0476
Zn-T	mg/L		0.00013	0.00840	<0.00010	0.00034	0.00087
Al-D	mg/L		0.0196	0.0197	0.0201	0.0197	0.0266
As-D	mg/L		0.000111	0.000117	0.000113	0.000118	0.000164
Ba-D	mg/L		0.00119	0.00131	0.00127	0.00128	0.00199
B-D	mg/L		0.016	0.019	0.019	0.022	0.029
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		8.5	9.33	9.14	9.6	10.6
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000164	0.0000190	0.0000182	0.0000178	0.0000206
Cu-D	mg/L	0.001	0.000625	0.000630	0.000617	0.000604	0.00049
Hard-D	mg/L		25.2	27.3	26.9	28.5	32.7
DOC	mg/L		2.6	3.0	2.4	2.3	2.7
Fe-D	mg/L		0.0159	0.0197	0.0193	0.0181	0.0337
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005
Mg-D	mg/L		0.958	0.970	0.979	1.1	1.54
Mn-D	mg/L		0.00183	0.00252	0.00243	0.00257	0.00399
Mo-D	mg/L		0.000194	0.000188	0.000181	0.000176	0.00016
Ni-D	mg/L	0.0017	0.000061	0.000059	0.000068	0.000058	0.000053
K-D	mg/L		0.107	0.122	0.115	0.126	0.16
S-D	mg/L		<3.0	3.2	3.1	3.8	6.2
Se-D	mg/L		0.000059	0.000059	0.000057	0.00006	0.000068
Na-D	mg/L		3.17	3.81	4.05	4.9	6.88
Sr-D	mg/L		0.026	0.0291	0.0286	0.0311	0.0464
Zn-D	mg/L	0.012	0.00055	0.00232	0.00073	0.00045	0.00067

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		7-Jan-26	8-Jan-26	19-Jan-26	26-Jan-26	29-Jan-26	
pH-F	pH Units	7.75	7.87	7.62	7.93	7.34	
Cond-F	uS/cm	101.5	105.7	63.5	79.2	55.9	
Temp-F	C	4.1	4.4	2	3.9	4.7	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	18	18	7.3	5.5	4.8
TSS	mg/L	2.4	<1.0	1.2	<1.0	<1.0	
Alk-T	mg/L		29	29	22		23
Al-T	mg/L	0.28	0.0272	0.0245	0.042	0.036	0.037
As-T	mg/L	0.005	0.000199	0.000161	0.000145	0.000119	0.000126
Ba-T	mg/L		0.00213	0.00191	0.00153	0.00126	0.00122
B-T	mg/L	1.2	0.028	0.03	0.012	0.013	<0.010
Bicarb	mg/L		36	35	27		28
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.1	10.1	8.56	8.03	7.63
Cr-T	mg/L	0.0025	<0.00010	<0.00010	0.00013	<0.00010	0.00011
Co-T	mg/L	0.004	0.0000204	0.000019	0.0000263	0.0000301	0.0000334
Cu-T	mg/L		0.000516	0.000512	0.000676	0.000657	0.000681
Hard-T	mg/L		30.8	30.9	25.5	23.9	22.6
Fe-T	mg/L	1	0.0394	0.0344	0.0404	0.045	0.0503
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	0.0000083	0.000015
Mg-T	mg/L		1.34	1.37	0.996	0.929	0.862
Mn-T	mg/L	0.86	0.00379	0.00369	0.00279	0.00506	0.00398
Mo-T	mg/L		0.00023	0.000216	0.000173	0.000174	0.000162
Ni-T	mg/L		0.000058	0.000072	0.000075	0.000051	0.000088
K-T	mg/L		0.15	0.154	0.095	0.087	0.08
S-T	mg/L		5.9	5.6	<3.0	<3.0	<3.0
Se-T	mg/L	0.002	<0.000040	<0.000040	0.000073	0.000069	0.000049
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		5.72	6.56	1.72	1.73	1.56
Sr-T	mg/L		0.0483	0.046	0.0264	0.022	0.0205
Zn-T	mg/L		0.00078	0.00065	0.00023	0.00019	0.00171
Al-D	mg/L		0.0393	0.035	0.0268	0.0232	0.0231
As-D	mg/L		0.00022	0.000167	0.000135	0.000091	0.000109
Ba-D	mg/L		0.00217	0.002	0.0014	0.00117	0.0011
B-D	mg/L		0.029	0.03	0.012	0.011	0.012
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.7	9.87	8.44	7.77	8.08
Cr-D	mg/L		0.00012	0.00012	0.00011	0.00011	0.00012
Co-D	mg/L		0.000026	0.0000306	0.0000166	0.00002	0.0000202
Cu-D	mg/L	0.001	0.000547	0.000611	0.000603	0.000734	0.000617
Hard-D	mg/L		32.5	30	25.2	23.2	23.9
DOC	mg/L		2.8	2.8	2.9	2.3	3.1
Fe-D	mg/L		0.0581	0.0605	0.0219	0.0207	0.0213
Pb-D	mg/L		0.0000058	0.0000831	0.0000086	<0.0000050	<0.0000050
Mg-D	mg/L		1.41	1.3	1	0.924	0.916
Mn-D	mg/L		0.0045	0.0046	0.00177	0.00264	0.00294
Mo-D	mg/L		0.000172	0.000174	0.000213	0.000369	0.000232
Ni-D	mg/L	0.0017	0.000092	0.000086	0.000062	0.00007	0.00006
K-D	mg/L		0.153	0.143	0.093	0.085	0.093
S-D	mg/L		6.1	5.1	<3.0	<3.0	<3.0
Se-D	mg/L		0.000044	0.000044	0.00005	0.000045	0.00005
Na-D	mg/L		5.89	6.33	1.72	1.74	1.62
Sr-D	mg/L		0.0483	0.0447	0.0259	0.0219	0.0196
Zn-D	mg/L	0.012	0.00044	0.00126	0.00122	0.00079	0.00063

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026						
EMS ID	E0900504					
StnName	Middle Quinsam Lake Outlet					
StnCode	WB					
		QRTTrigger2 (T)	2-Feb-26	5-Feb-26	9-Feb-26	23-Feb-26
pH-F	pH Units		7.62	7.61	7.24	7.48
Cond-F	uS/cm		56.5	52.1	58.4	89.8
Temp-F	C		6	6.2	6.4	2.6
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	6.4	4.7	6.3	13
TSS	mg/L	2.4	<1.0	<1.0	<1.0	3.2
Alk-T	mg/L		22	23	23	22
Al-T	mg/L	0.28	0.0405	0.0403	0.0367	0.0399
As-T	mg/L	0.005	0.000121	0.000105	0.000122	0.000174
Ba-T	mg/L		0.00119	0.00123	0.00119	0.00174
B-T	mg/L	1.2	0.011	0.011	0.013	0.013
Bicarb	mg/L		26	28	28	27
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		7.18	6.89	7.61	9.73
Cr-T	mg/L	0.0025	0.0001	0.0001	0.00011	0.00011
Co-T	mg/L	0.004	0.000024	0.0000234	0.000021	0.0000271
Cu-T	mg/L		0.00061	0.000593	0.000615	0.000559
Hard-T	mg/L		21.5	20.7	23	29.3
Fe-T	mg/L	1	0.0406	0.0325	0.0298	0.0564
Pb-T	mg/L		<0.000020	<0.0000050	0.0000057	<0.0000050
Mg-T	mg/L		0.87	0.855	0.972	1.2
Mn-T	mg/L	0.86	0.00286	0.00205	0.00222	0.00673
Mo-T	mg/L		0.000155	0.000164	0.000152	0.000141
Ni-T	mg/L		<0.00010	0.000054	0.000069	0.00008
K-T	mg/L		<0.25	0.078	0.082	0.103
S-T	mg/L		<3.0	<3.0	<3.0	4.8
Se-T	mg/L	0.002	0.000047	0.000041	<0.000040	0.000045
Ag-T	mg/L		<0.000010	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		2.04	1.41	1.54	2.15
Sr-T	mg/L		0.0206	0.0196	0.0227	0.0371
Zn-T	mg/L		<0.0010	0.00027	0.00022	0.0002
Al-D	mg/L		0.027	0.0326	0.0248	0.0276
As-D	mg/L		0.000132	0.000135	0.000106	0.000145
Ba-D	mg/L		0.0012	0.0013	0.00108	0.00176
B-D	mg/L		0.012	0.011	<0.010	0.015
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		7.8	7.7	7.5	9.86
Cr-D	mg/L		<0.00010	0.0001	0.00011	0.00011
Co-D	mg/L		0.0000177	0.0000176	0.0000168	0.0000182
Cu-D	mg/L	0.001	0.000616	0.000602	0.000644	0.000754
Hard-D	mg/L		23.4	23.2	22.2	29.8
DOC	mg/L		2.9	3.1	3	2.6
Fe-D	mg/L		0.0224	0.0238	0.0176	0.0299
Pb-D	mg/L		0.0000058	0.0000085	<0.0000050	0.0000801
Mg-D	mg/L		0.944	0.954	0.838	1.25
Mn-D	mg/L		0.00202	0.00152	0.00149	0.00399
Mo-D	mg/L		0.000479	0.00059	0.000272	0.000166
Ni-D	mg/L	0.0017	0.000071	0.000079	0.00005	0.000076
K-D	mg/L		0.084	0.081	0.078	0.107
S-D	mg/L		<3.0	<3.0	<3.0	4.5
Se-D	mg/L		0.000051	0.000051	0.000049	0.000048
Na-D	mg/L		2.27	1.52	1.43	2.16
Sr-D	mg/L		0.0216	0.0208	0.0195	0.0363
Zn-D	mg/L	0.012	0.00079	0.00473	0.00156	0.00135

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		25-Feb-26	2-Mar-26	4-Mar-26	9-Mar-26	11-Mar-26	
pH-F	pH Units	7.42	6.83	7	6.84	6.75	
Cond-F	uS/cm	77.6	69.6	136.5	67.4	67	
Temp-F	C	3.6	4.7	6.5	5.7	5	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	10	8.5	7.8	9.2	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	
Alk-T	mg/L		21	21	22	23	
Al-T	mg/L	0.28	0.0279	0.0353	0.0275	0.0292	
As-T	mg/L	0.005	0.000156	0.000123	0.000089	0.000123	
Ba-T	mg/L		0.00108	0.00143	0.00132	0.00145	
B-T	mg/L	1.2	0.011	0.014	0.012	0.013	
Bicarb	mg/L		26	26	27	28	
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Ca-T	mg/L		7.13	8.27	7.92	8.38	
Cr-T	mg/L	0.0025	0.0001	0.00032	<0.00010	0.0001	
Co-T	mg/L	0.004	0.0000166	0.0000198	0.000022	0.0000208	
Cu-T	mg/L		0.000534	0.00065	0.00059	0.000598	
Hard-T	mg/L		21.8	25	23.7	25.1	
Fe-T	mg/L	1	0.0275	0.0379	0.031	0.0338	
Pb-T	mg/L		<0.0000050	0.0000113	<0.000020	<0.0000050	
Mg-T	mg/L		0.968	1.07	0.96	1.01	
Mn-T	mg/L	0.86	0.00167	0.00419	0.00352	0.00426	
Mo-T	mg/L		0.00036	0.00016	0.000146	0.000176	
Ni-T	mg/L		0.000054	0.000151	<0.00010	0.000069	
K-T	mg/L		0.091	0.089	<0.25	0.084	
S-T	mg/L		3.1	<3.0	<3.0	<3.0	
Se-T	mg/L	0.002	0.000042	0.00004	0.000053	0.000048	
Ag-T	mg/L		<0.0000050	<0.0000050	<0.000010	<0.0000050	
Na-T	mg/L		2.01	1.98	1.76	1.94	
Sr-T	mg/L		0.0256	0.027	0.027	0.0296	
Zn-T	mg/L		<0.00010	0.00019	<0.0010	0.00014	
Al-D	mg/L		0.0284	0.0241	0.0235	0.0236	
As-D	mg/L		0.000164	0.000135	0.000122	0.000114	
Ba-D	mg/L		0.00162	0.00136	0.00138	0.0014	
B-D	mg/L		0.016	0.011	0.012	0.012	
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Ca-D	mg/L		8.07	7.9	8.48	8.91	
Cr-D	mg/L		0.00057	0.00046	0.0001	<0.00010	
Co-D	mg/L		0.000017	0.000018	0.0000172	0.0000158	
Cu-D	mg/L	0.001	0.000632	0.00065	0.000599	0.000538	
Hard-D	mg/L		24.6	23.8	25.4	26.7	
DOC	mg/L		2.6	2.6	2.6	2.2	
Fe-D	mg/L		0.0305	0.0254	0.0234	0.0262	
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	0.0000061	
Mg-D	mg/L		1.08	0.998	1.03	1.08	
Mn-D	mg/L		0.00332	0.00282	0.00281	0.00276	
Mo-D	mg/L		0.00022	0.000312	0.000298	0.000279	
Ni-D	mg/L	0.0017	0.000306	0.000204	0.000065	0.00006	
K-D	mg/L		0.092	0.087	0.081	0.087	
S-D	mg/L		3.1	<3.0	<3.0	3.2	
Se-D	mg/L		<0.000040	0.000042	<0.000040	0.000052	
Na-D	mg/L		1.91	1.9	1.93	1.97	
Sr-D	mg/L		0.0313	0.0275	0.0278	0.0316	
Zn-D	mg/L	0.012	0.00075	0.00035	0.00182	0.00154	

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
QRTrigger2 (T)		16-Mar-26	18-Mar-26	23-Mar-26	25-Mar-26	30-Mar-26	
pH-F	pH Units	7.82	7.1	7.54	7.13	7.52	
Cond-F	uS/cm	72.6	88.5	55.4	59.8	68	
Temp-F	C	5.1	7.3	6.8	6.5	6.4	
Br-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	10	5.3	13	4.8	7.3
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		26	22	24	21	22
Al-T	mg/L	0.28	0.0269	0.0351	0.0319	0.0298	0.0279
As-T	mg/L	0.005	0.000123	0.000095	0.000131	0.000087	0.000111
Ba-T	mg/L		0.00153	0.00123	0.00179	0.00108	0.00135
B-T	mg/L	1.2	0.014	<0.010	0.013	<0.010	0.011
Bicarb	mg/L		31	27	29	25	27
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.49	7.36	9.32	7.38	8.3
Cr-T	mg/L	0.0025	0.0001	0.00011	0.00012	<0.00010	0.00012
Co-T	mg/L	0.004	0.0000225	0.0000198	0.000025	0.0000183	0.0000203
Cu-T	mg/L		0.00063	0.000643	0.00082	0.000643	0.00069
Hard-T	mg/L		28.5	21.8	28	21.9	24.5
Fe-T	mg/L	1	0.0366	0.028	0.0479	0.0236	0.0268
Pb-T	mg/L		<0.0000050	<0.0000050	<0.000020	<0.0000050	0.0000089
Mg-T	mg/L		1.16	0.83	1.15	0.841	0.92
Mn-T	mg/L	0.86	0.00583	0.00249	0.00682	0.00263	0.00314
Mo-T	mg/L		0.000184	0.000169	0.000177	0.000182	0.000193
Ni-T	mg/L		0.000077	0.000061	0.00019	0.000062	0.000066
K-T	mg/L		0.092	0.071	<0.25	0.068	0.081
S-T	mg/L		3.6	<3.0	3.7	<3.0	<3.0
Se-T	mg/L	0.002	<0.000040	0.000042	0.000045	0.000048	0.000051
Ag-T	mg/L		<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050
Na-T	mg/L		2.33	1.28	2.34	1.24	1.49
Sr-T	mg/L		0.0316	0.0195	0.0338	0.0181	0.0272
Zn-T	mg/L		0.0003	0.00015	<0.0010	0.00016	0.00052
Al-D	mg/L		0.0232	0.0237	0.0225	0.026	0.0222
As-D	mg/L		0.000136	0.000099	0.000138	0.000096	0.000116
Ba-D	mg/L		0.00155	0.00108	0.00187	0.00107	0.0013
B-D	mg/L		0.015	<0.010	0.016	<0.010	<0.010
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		9.76	7.05	9.7	7.14	8.18
Cr-D	mg/L		0.00012	0.00011	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000207	0.000017	0.000019	0.000015	0.0000154
Cu-D	mg/L	0.001	0.000558	0.000599	0.000514	0.000607	0.000601
Hard-D	mg/L		29.5	21	29.4	21.5	24.3
DOC	mg/L		2.6	2.5	2.6	2.4	2.5
Fe-D	mg/L		0.0243	0.0155	0.0272	0.0156	0.0165
Pb-D	mg/L		<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050
Mg-D	mg/L		1.24	0.831	1.26	0.883	0.932
Mn-D	mg/L		0.00442	0.00161	0.00426	0.00193	0.00208
Mo-D	mg/L		0.000432	0.000248	0.000445	0.000181	0.000208
Ni-D	mg/L	0.0017	0.000067	0.000059	0.000073	0.000052	0.000055
K-D	mg/L		0.098	0.065	0.1	0.069	0.082
S-D	mg/L		3.8	<3.0	4	<3.0	<3.0
Se-D	mg/L		0.00004	0.000055	0.000045	0.000054	0.000052
Na-D	mg/L		2.37	1.16	2.36	1.25	1.51
Sr-D	mg/L		0.0332	0.0189	0.0401	0.0195	0.0276
Zn-D	mg/L	0.012	0.00242	0.00088	0.00153	0.00067	0.00051

Attachment 1
River Barrier Pillar Passive Treatment System
Table 10

Quinsam River - November 20, 2025 to March 31st 2026							
EMS ID		E0900504					
StnName		Middle Quinsam Lake Outlet					
StnCode		WB					
		Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
QRTrigger2 (T)							
pH-F	pH Units	49	7.93	7.30	7.68	0	0.0
Cond-F	uS/cm	49	145.5	82.1	112.5	0	0.0
Temp-F	C	49	8.3	5.953	7.72	0	0.0
Br-D	mg/L	47	0.028	0.0055	0.005	0	0.0
Cl-D	mg/L	47	<1.0	0.50	0.5	0	0.0
F-D	mg/L	47	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	48	24	11.1	18	0	0.0
TSS	mg/L	48	3.2	0.62	0.71	1	2.1
Alk-T	mg/L	46	36	25.0	29	0	0.0
Al-T	mg/L	49	0.0794	0.0333	0.0422	0	0.0
As-T	mg/L	49	0.000213	0.000147	0.000199	0	0.0
Ba-T	mg/L	49	0.00289	0.00169	0.00228	0	0.0
B-T	mg/L	49	0.03	0.0177	0.0264	0	0.0
Bicarb	mg/L	46	44	30.4	35	0	0.0
Cd-T	mg/L	49	<0.000010	0.00000255	2.50E-06	0	0.0
Ca-T	mg/L	49	11.4	9.07	10.7	0	0.0
Cr-T	mg/L	49	<0.0010	0.000120	0.00017	0	0.0
Co-T	mg/L	49	<0.00020	0.0000252	3.03E-05	0	0.0
Cu-T	mg/L	49	0.00141	0.000666	0.00089	0	0.0
Hard-T	mg/L	49	34.6	27.3	32.1	0	0.0
Fe-T	mg/L	49	0.117	0.0425	0.0602	0	0.0
Pb-T	mg/L	49	0.00017	0.00001214	1.98E-05	0	0.0
Mg-T	mg/L	49	1.48	1.123	1.376	0	0.0
Mn-T	mg/L	49	0.00682	0.00409	0.00532	0	0.0
Mo-T	mg/L	49	<0.0010	0.000183	0.000198	0	0.0
Ni-T	mg/L	49	<0.0010	0.000088	0.000118	0	0.0
K-T	mg/L	49	0.175	0.118	0.154	0	0.0
S-T	mg/L	49	6.2	3.30	5.66	0	0.0
Se-T	mg/L	49	0.000073	0.0000490	6.04E-05	0	0.0
Ag-T	mg/L	49	<0.000020	0.00000301	5.00E-06	0	0.0
Na-T	mg/L	49	7.6	3.57	6	0	0.0
Sr-T	mg/L	49	0.0483	0.0319	0.044	0	0.0
Zn-T	mg/L	49	0.00840	0.000583	0.001038	0	0.0
Al-D	mg/L	49	0.0393	0.0239	0.0318	0	0.0
As-D	mg/L	49	0.000221	0.000143	0.00018	0	0.0
Ba-D	mg/L	49	0.003	0.00163	0.00217	0	0.0
B-D	mg/L	49	0.03	0.0173	0.0254	0	0.0
Cd-D	mg/L	49	<0.000010	0.00000255	2.50E-06	0	0.0
Ca-D	mg/L	49	11	9.02	10.52	0	0.0
Cr-D	mg/L	49	0.00057	0.000112	0.00015	0	0.0
Co-D	mg/L	49	<0.00020	0.0000198	2.09E-05	0	0.0
Cu-D	mg/L	49	0.000754	0.000587	0.000641	0	0.0
Hard-D	mg/L	49	33.2	27.1	31.9	0	0.0
DOC	mg/L	47	3.3	2.7	3.1	0	0.0
Fe-D	mg/L	49	0.0605	0.0270	0.0392	0	0.0
Pb-D	mg/L	49	<0.00020	0.00000893	8.66E-06	0	0.0
Mg-D	mg/L	49	1.54	1.114	1.358	0	0.0
Mn-D	mg/L	49	0.0046	0.00293	0.0041	0	0.0
Mo-D	mg/L	49	0.00059	0.000250	0.000386	0	0.0
Ni-D	mg/L	49	<0.0010	0.000082	8.40E-05	0	0.0
K-D	mg/L	49	0.179	0.114	0.154	0	0.0
S-D	mg/L	49	6.4	3.22	5.26	0	0.0
Se-D	mg/L	49	0.000068	0.0000474	5.74E-05	0	0.0
Na-D	mg/L	49	7.36	3.50	5.98	0	0.0
Sr-D	mg/L	49	0.0483	0.0319	0.0443	0	0.0
Zn-D	mg/L	49	0.00473	0.00116	0.00206	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 11

Quinsam River - November 20, 2025 to March 31st 2026								
StnName		Quinsam River Upstream (10m) of RPBO Discharge						
StnCode		QRUS						
		QRTrigger2 (T)	4-Dec-25	23-Dec-25	24-Dec-25	28-Dec-25	30-Dec-25	31-Dec-25
pH-F	pH Units		7.77	7.66	7.64	7.85	7.7	6.87
Cond-F	uS/cm		133.7	113.3	90.5	109.1	111.3	132.4
Temp-F	C		6.438	4.697	4.6	3.755	4.142	4.54
Br-D	mg/L			<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150		<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1		<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218		14	15	22	18	18
TSS	mg/L	2.4		<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L			28	29	33	30	32
Al-T	mg/L	0.28		0.033	0.0417	0.0310	0.0302	0.0273
As-T	mg/L	0.005		0.000293	0.00017	0.000182	0.000173	0.000169
Ba-T	mg/L			0.00261	0.00228	0.00306	0.00241	0.00249
B-T	mg/L	1.2		0.019	0.023	0.033	0.028	0.031
Bicarb	mg/L			34	35	40	37	39
Cd-T	mg/L			0.0000061	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L			8.84	9.58	10.9	9.82	10.2
Cr-T	mg/L	0.0025		0.00016	0.00012	0.00011	0.00011	0.0001
Co-T	mg/L	0.004		0.000046	0.0000306	0.0000224	0.0000217	0.0000197
Cu-T	mg/L			0.00075	0.000916	0.000634	0.000645	0.000606
Hard-T	mg/L			26.1	29	33.1	29.5	30.9
Fe-T	mg/L	1		0.0844	0.0512	0.0363	0.0347	0.0344
Pb-T	mg/L			0.00002	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L			0.99	1.24	1.43	1.22	1.32
Mn-T	mg/L	0.86		0.00852	0.00364	0.00320	0.00297	0.00295
Mo-T	mg/L			0.00017	0.000171	0.000180	0.000178	0.000176
Ni-T	mg/L			0.0001	0.000082	0.000076	0.000072	0.000072
K-T	mg/L			<0.25	0.15	0.191	0.161	0.165
S-T	mg/L			4	4.5	6.7	5.1	5.5
Se-T	mg/L	0.002		0.000059	0.000057	0.000049	0.000052	0.00005
Ag-T	mg/L			<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L			4.77	5.62	8.40	6.88	6.92
Sr-T	mg/L			0.0317	0.0367	0.0480	0.0405	0.04
Zn-T	mg/L			<0.0010	0.00013	<0.00010	<0.00010	0.00014
Al-D	mg/L			0.0216	0.021	0.0222	0.0198	0.0209
As-D	mg/L			0.000136	0.000149	0.000169	0.000169	0.000169
Ba-D	mg/L			0.00227	0.00222	0.00296	0.00271	0.00248
B-D	mg/L			0.025	0.022	0.030	0.029	0.028
Cd-D	mg/L	0.00014		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L			8.63	9.38	10.9	10.7	10.5
Cr-D	mg/L			<0.00010	0.0001	<0.00010	<0.00010	<0.00010
Co-D	mg/L			0.0000156	0.0000207	0.0000182	0.0000163	0.0000173
Cu-D	mg/L	0.001		0.000541	0.000584	0.000594	0.000602	0.000693
Hard-D	mg/L			26.2	28.1	32.3	31.7	31.5
DOC	mg/L			2.7	2.7	2.4	2.4	2.4
Fe-D	mg/L			0.0184	0.0197	0.0235	0.0211	0.022
Pb-D	mg/L			<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L			1.13	1.15	1.22	1.18	1.27
Mn-D	mg/L			0.00183	0.00159	0.00196	0.0017	0.00174
Mo-D	mg/L			0.000407	0.000176	0.000187	0.000177	0.000178
Ni-D	mg/L	0.0017		0.000057	0.000058	0.000064	0.000063	0.000063
K-D	mg/L			0.142	0.142	0.190	0.175	0.169
S-D	mg/L			4.2	4.1	6.3	5.8	5.4
Se-D	mg/L			0.000059	0.000053	0.000052	0.000057	0.000047
Na-D	mg/L			5.52	5	7.56	7.02	6.98
Sr-D	mg/L			0.0355	0.0344	0.0476	0.045	0.0425
Zn-D	mg/L	0.012		0.00221	0.00063	0.00057	0.00076	0.00071

Attachment 1
River Barrier Pillar Passive Treatment System
Table 11

Quinsam River - November 20, 2025 to									
StnName		Quinsam River Upst							
StnCode		QRUS							
		QRTrigger2 (T)	3-Jan-26	6-Jan-26	7-Jan-26	8-Jan-26	19-Jan-26	26-Jan-26	29-Jan-26
pH-F	pH Units			6.81	7.07	7.17	6.62	6.46	7.4
Cond-F	uS/cm			128.4	142.5	135.5	103.8	203.2	110.6
Temp-F	C			3 963	3.881	3.491	3.891	4.445	4.67
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	20	22	20	21	9.1	11	11
TSS	mg/L	2.4	<1.0	<1.0	2	<1.0	<1.0	1.2	<1.0
Alk-T	mg/L		32	33	34	33	25		28
Al-T	mg/L	0.28	0.0271	0.0267	0.028	0.0284	0.0456	0.0332	0.0292
As-T	mg/L	0.005	0.00015	0.000185	0.000178	0.000166	0.000156	0.000177	0.000145
Ba-T	mg/L		0.00251	0.00253	0.00222	0.00255	0.00197	0.00229	0.00202
B-T	mg/L	1.2	0.031	0.033	0.034	0.039	0.016	0.021	0.018
Bicarb	mg/L		39	40	41	41	30		35
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.7	10.9	9.91	10.6	8.7	8.92	8.89
Cr-T	mg/L	0.0025	<0.00010	<0.00010	<0.00010	<0.00010	0.00013	0.00012	<0.00010
Co-T	mg/L	0.004	0.0000207	0.0000213	0.000022	0.0000219	0.0000302	0.0000284	0.0000242
Cu-T	mg/L		0.000595	0.000567	0.000563	0.000575	0.000711	0.000676	0.000629
Hard-T	mg/L		32.3	33	30.3	32.1	25.9	26.8	26.4
Fe-T	mg/L	1	0.0356	0.0417	0.039	0.0425	0.049	0.0385	0.0337
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000079	0.0000067	0.0000053
Mg-T	mg/L		1.35	1.41	1.34	1.39	1.02	1.1	1.02
Mn-T	mg/L	0.86	0.00331	0.00347	0.00358	0.00372	0.00412	0.00413	0.00315
Mo-T	mg/L		0.000163	0.000168	0.000173	0.000173	0.000157	0.00018	0.000153
Ni-T	mg/L		0.000066	0.000062	0.000054	0.000066	0.000072	0.000092	0.000078
K-T	mg/L		0.176	0.182	0.178	0.19	0.119	0.136	0.126
S-T	mg/L		6.3	6.8	6.4	6.7	<3.0	3.3	3.3
Se-T	mg/L	0.002	0.000056	0.000058	0.000043	0.000055	0.000079	0.000067	0.00005
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		8.28	8.68	8.36	9.28	3.49	4.43	4.46
Sr-T	mg/L		0.0451	0.0492	0.0477	0.0497	0.0272	0.031	0.0305
Zn-T	mg/L		0.0001	<0.00010	0.0001	0.00013	0.00013	0.00017	0.00018
Al-D	mg/L		0.0197	0.0224	0.0216	0.02	0.0241	0.0219	0.021
As-D	mg/L		0.000144	0.00016	0.000175	0.000157	0.000141	0.000117	0.000138
Ba-D	mg/L		0.00235	0.00255	0.00241	0.00259	0.0018	0.00218	0.00216
B-D	mg/L		0.032	0.037	0.035	0.039	0.016	0.021	0.021
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.9	11.3	10.9	10.4	8.66	9.08	9.29
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	0.0001
Co-D	mg/L		0.0000151	0.0000179	0.0000151	0.0000196	0.0000157	0.0000183	0.0000159
Cu-D	mg/L	0.001	0.000543	0.000508	0.000513	0.000533	0.00061	0.000687	0.000584
Hard-D	mg/L		32.8	34.7	33	31.5	25.8	27.1	27.6
DOC	mg/L		2.2	2.4	2.6	2.6	2.6	2.1	3
Fe-D	mg/L		0.022	0.0253	0.026	0.0261	0.0171	0.0194	0.0209
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000267	<0.0000050	<0.0000050
Mg-D	mg/L		1.36	1.58	1.42	1.36	1.01	1.08	1.07
Mn-D	mg/L		0.00194	0.00259	0.00241	0.00249	0.00141	0.00177	0.002
Mo-D	mg/L		0.000169	0.000165	0.000278	0.000289	0.000231	0.000204	0.000216
Ni-D	mg/L	0.0017	0.000054	0.00005	0.000054	0.000069	0.000058	0.000073	0.000066
K-D	mg/L		0.168	0.202	0.188	0.187	0.115	0.137	0.14
S-D	mg/L		6	7.4	7	6.7	<3.0	3.7	3.9
Se-D	mg/L		0.00005	0.000077	0.000055	0.000042	0.000055	0.000046	0.000054
Na-D	mg/L		8.47	10	9.34	9.64	3.44	4.71	4.63
Sr-D	mg/L		0.0433	0.0507	0.0482	0.05	0.0274	0.0314	0.0307
Zn-D	mg/L	0.012	0.0004	0.00055	0.00109	0.00118	0.00076	0.00096	0.00082

Attachment 1
River Barrier Pillar Passive Treatment System
Table 11

Quinsam River - November 20, 2025 to									
StnName		Quinsam River Upst							
StnCode		QRUS							
		QRTrigger2 (T)	2-Feb-26	5-Feb-26	9-Feb-26	23-Feb-26	25-Feb-26	2-Mar-26	4-Mar-26
pH-F	pH Units		6.76	6.81	7.24	7.02	6.92	6.86	7.02
Cond-F	uS/cm		72.3	67.3	60.2	96.6	93.8	81.6	51.2
Temp-F	C		5.242	5.28	5.64	3.419	3.823	3.451	5.02
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	0.028	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	6.8	6.3	6.8	17	12	11	11
TSS	mg/L	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
Alk-T	mg/L		26	24	24	26	23	26	25
Al-T	mg/L	0.28	0.0485	0.0383	0.0356	0.0453	0.025	0.033	0.0314
As-T	mg/L	0.005	0.000139	0.000114	0.000142	0.000212	0.000188	0.000166	0.000181
Ba-T	mg/L		0.00158	0.0015	0.00154	0.0024	0.00141	0.00198	0.00263
B-T	mg/L	1.2	0.015	0.015	0.017	0.018	0.015	0.02	0.02
Bicarb	mg/L		31	29	29	32	28	32	31
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		8.26	7.49	7.81	10.1	7.71	8.87	9.23
Cr-T	mg/L	0.0025	0.00012	0.00011	0.00011	0.00011	<0.00010	0.00121	0.00025
Co-T	mg/L	0.004	0.0000277	0.000024	0.0000212	0.0000234	0.0000164	0.0000195	0.0000205
Cu-T	mg/L		0.000678	0.000637	0.000611	0.000566	0.000522	0.000832	0.000572
Hard-T	mg/L		24.5	22.4	23.7	30.6	23.7	26.9	28.1
Fe-T	mg/L	1	0.051	0.031	0.0286	0.0555	0.0284	0.0405	0.0366
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	0.0000066	<0.0000050	<0.0000050	0.000603
Mg-T	mg/L		0.948	0.901	1.01	1.32	1.07	1.16	1.22
Mn-T	mg/L	0.86	0.00389	0.00251	0.00203	0.00428	0.00101	0.00312	0.0034
Mo-T	mg/L		0.000161	0.000165	0.000192	0.000143	0.000226	0.000181	0.000177
Ni-T	mg/L		0.000081	0.000062	0.000072	0.000098	0.00006	0.000485	0.000049
K-T	mg/L		0.107	0.1	0.1	0.139	0.118	0.115	0.125
S-T	mg/L		<3.0	<3.0	<3.0	5.5	3.9	4	4.1
Se-T	mg/L	0.002	0.000059	0.000053	<0.000040	0.000044	0.000051	0.000054	<0.000040
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		2.99	2.83	2.53	3.36	3.2	3.31	3.99
Sr-T	mg/L		0.0243	0.022	0.0248	0.0416	0.0301	0.0321	0.04
Zn-T	mg/L		0.0001	0.00011	0.00015	0.00014	<0.00010	<0.00010	0.00021
Al-D	mg/L		0.0271	0.0293	0.0244	0.0305	0.0272	0.0235	0.0233
As-D	mg/L		0.000131	0.000131	0.000129	0.000184	0.000189	0.000177	0.000179
Ba-D	mg/L		0.00125	0.00158	0.00145	0.00235	0.00207	0.00191	0.00209
B-D	mg/L		0.013	0.015	0.012	0.021	0.02	0.016	0.019
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		7.78	8.23	8.01	10.6	8.89	8.83	9.35
Cr-D	mg/L		<0.00010	0.00011	0.00011	<0.00010	0.0005	0.00026	<0.00010
Co-D	mg/L		0.0000168	0.0000177	0.0000151	0.0000203	0.0000194	0.0000187	0.0000154
Cu-D	mg/L	0.001	0.00059	0.000641	0.000634	0.000514	0.000643	0.000573	0.00055
Hard-D	mg/L		23.3	24.8	23.6	32.2	27.1	26.6	28.2
DOC	mg/L		2.9	2.9	3	2.7	2.6	2.5	<0.50
Fe-D	mg/L		0.0211	0.0185	0.0182	0.0325	0.0293	0.0251	0.0243
Pb-D	mg/L		<0.0000050	0.0000053	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		0.946	1.02	0.88	1.39	1.19	1.11	1.18
Mn-D	mg/L		0.00172	0.00137	0.00144	0.00317	0.00255	0.00213	0.00206
Mo-D	mg/L		0.000182	0.000235	0.000288	0.000206	0.00016	0.000268	0.00029
Ni-D	mg/L	0.0017	0.00006	0.00007	0.000058	0.000072	0.000274	0.000134	0.00006
K-D	mg/L		0.092	0.106	0.094	0.143	0.118	0.115	0.116
S-D	mg/L		<3.0	<3.0	<3.0	5.3	4.1	3.9	4.1
Se-D	mg/L		0.000053	0.000062	0.000044	<0.000040	0.000041	0.000055	<0.000040
Na-D	mg/L		2.63	3.01	2.3	3.59	3.1	3.23	3.68
Sr-D	mg/L		0.0216	0.0236	0.0226	0.0419	0.0369	0.0333	0.0377
Zn-D	mg/L	0.012	0.00026	0.00144	0.00073	0.00084	0.00055	0.00026	0.00055

Attachment 1
River Barrier Pillar Passive Treatment System
Table 11

Quinsam River - November 20, 2025 to								
StnName		Quinsam River Ups						
StnCode		QRUS						
		QRTrigger2 (T)	9-Mar-26	11-Mar-26	16-Mar-26	18-Mar-26	23-Mar-26	25-Mar-26
pH-F	pH Units		7.04	7.09	6.96		6.69	7.42
Cond-F	uS/cm		81.1	88	85.9	105	66.8	81.4
Temp-F	C		6.138	5.2	5.125	5.8	6.328	5.943
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	14	16	16	21	6	9
TSS	mg/L	2.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		24	26	27	25	22	23
Al-T	mg/L	0.28	0.0305	0.0283	0.0312	0.0413	0.0345	0.0323
As-T	mg/L	0.005	0.000221	0.0002	0.000193	0.000227	0.000114	0.000128
Ba-T	mg/L		0.00216	0.00246	0.00254	0.00297	0.0014	0.00179
B-T	mg/L	1.2	0.02	0.023	0.024	0.028	0.011	0.013
Bicarb	mg/L		29	31	33	31	27	28
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.36	10.3	9.7	11.2	7.32	8.49
Cr-T	mg/L	0.0025	<0.00010	<0.00010	<0.00010	0.00012	0.0001	0.0001
Co-T	mg/L	0.004	0.000022	0.0000208	0.000021	0.0000233	0.0000211	0.0000189
Cu-T	mg/L		0.000576	0.000587	0.0007	0.000586	0.000663	0.000631
Hard-T	mg/L		28.4	31.6	30.3	34.5	21.8	25.4
Fe-T	mg/L	1	0.0404	0.0361	0.0412	0.0567	0.0304	0.0293
Pb-T	mg/L		<0.0000050	<0.0000050	<0.000020	0.0000096	<0.0000050	<0.0000050
Mg-T	mg/L		1.22	1.41	1.47	1.58	0.852	1.01
Mn-T	mg/L	0.86	0.00401	0.00312	0.00468	0.00517	0.00271	0.00266
Mo-T	mg/L		0.000154	0.000192	0.000182	0.000287	0.000165	0.000166
Ni-T	mg/L		0.000078	0.00008	0.00015	0.000111	0.000066	0.000058
K-T	mg/L		0.128	0.141	<0.25	0.15	0.079	0.104
S-T	mg/L		3.8	5.4	4.9	6.8	<3.0	3.2
Se-T	mg/L	0.002	0.000043	0.000053	0.000051	<0.000040	0.000045	0.000052
Ag-T	mg/L		<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		3.66	4.68	4.91	4.27	1.85	3.11
Sr-T	mg/L		0.0416	0.0446	0.0429	0.0543	0.0212	0.03
Zn-T	mg/L		0.00014	<0.00010	<0.0010	0.00058	0.00019	0.00013
Al-D	mg/L		0.0211	0.0243	0.0228	0.0256	0.0236	0.0238
As-D	mg/L		0.000187	0.000212	0.00021	0.000203	0.000125	0.000125
Ba-D	mg/L		0.00214	0.00247	0.00243	0.00268	0.00136	0.00168
B-D	mg/L		0.021	0.023	0.024	0.025	0.011	0.016
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		9.32	10.2	10.6	11.2	7.41	8.18
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010
Co-D	mg/L		0.0000146	0.0000171	0.0000183	0.0000199	0.000016	0.000015
Cu-D	mg/L	0.001	0.000522	0.000568	0.000549	0.000544	0.000576	0.00058
Hard-D	mg/L		28.4	31.4	32.4	34.4	22.2	24.6
DOC	mg/L		2.4	2.4	2.5	2.8	2.6	2.4
Fe-D	mg/L		0.0245	0.0247	0.0247	0.0307	0.0155	0.0155
Pb-D	mg/L		<0.0000050	0.0000061	<0.0000050	0.0000054	0.000007	<0.0000050
Mg-D	mg/L		1.23	1.43	1.44	1.55	0.89	1
Mn-D	mg/L		0.00201	0.002	0.00312	0.00352	0.00145	0.00166
Mo-D	mg/L		0.00069	0.00026	0.000203	0.00021	0.00021	0.000188
Ni-D	mg/L	0.0017	0.000058	0.00007	0.000084	0.00009	0.000051	0.000057
K-D	mg/L		0.121	0.14	0.146	0.149	0.079	0.097
S-D	mg/L		5.1	5.4	5.4	6.2	<3.0	3
Se-D	mg/L		0.000046	0.000044	0.00005	<0.000040	0.000051	0.000047
Na-D	mg/L		3.62	4.59	4.84	4.14	1.99	2.62
Sr-D	mg/L		0.0422	0.0444	0.0428	0.0513	0.0227	0.0294
Zn-D	mg/L	0.012	0.00233	0.001	0.0006	0.00032	0.00087	0.00081

Attachment 1
River Barrier Pillar Passive Treatment System
Table 11

Quinsam River - November 20, 2025 to								
StnName		Quinsam River Upst						
StnCode		QRUS						
		QRTrigger2 (T)	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		24	7.85	7.12	7.69	0	0.0
Cond-F	uS/cm		25	203.2	101.8	134.8	0	0.0
Temp-F	C		25	3.963	163.118	6.252	0	0.0
Br-D	mg/L		25	0.028	0.0059	0.005	0	0.0
Cl-D	mg/L	150	25	<1.0	0.50	0.5	0	0.0
F-D	mg/L	1.1	25	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	218	25	22	14.2	21	0	0.0
TSS	mg/L	2.4	25	2	0.67	1.2	0	0.0
Alk-T	mg/L		24	34	27.4	33	0	0.0
Al-T	mg/L	0.28	25	0.0485	0.0335	0.0439	0	0.0
As-T	mg/L	0.005	25	0.000293	0.000175	0.000217	0	0.0
Ba-T	mg/L		25	0.00306	0.00221	0.00262	0	0.0
B-T	mg/L	1.2	25	0.039	0.023	0.033	0	0.0
Bicarb	mg/L		24	41	33.4	40	0	0.0
Cd-T	mg/L		25	0.0000061	0.00000264	2.50E-06	0	0.0
Ca-T	mg/L		25	11.2	9.35	10.82	0	0.0
Cr-T	mg/L	0.0025	25	0.00121	0.000141	0.000148	0	0.0
Co-T	mg/L	0.004	25	0.000046	0.0000236	2.95E-05	0	0.0
Cu-T	mg/L		25	0.000916	0.000641	0.000734	0	0.0
Hard-T	mg/L		25	34.5	28.3	32.7	0	0.0
Fe-T	mg/L	1	25	0.0844	0.0411	0.0538	0	0.0
Pb-T	mg/L		25	0.000603	0.00002846	9.84E-06	0	0.0
Mg-T	mg/L		25	1.58	1.200	1.422	0	0.0
Mn-T	mg/L	0.86	25	0.00852	0.00357	0.00452	0	0.0
Mo-T	mg/L		25	0.000287	0.000177	0.000192	0	0.0
Ni-T	mg/L		25	0.000485	0.000094	0.000107	0	0.0
K-T	mg/L		25	0.191	0.137	0.18	0	0.0
S-T	mg/L		25	6.8	4.31	6.7	0	0.0
Se-T	mg/L	0.002	25	0.000079	0.0000496	5.90E-05	0	0.0
Ag-T	mg/L		25	<0.000010	0.00000270	2.50E-06	0	0.0
Na-T	mg/L		25	9.28	4.97	8.38	0	0.0
Sr-T	mg/L		25	0.0543	0.0371	0.0487	0	0.0
Zn-T	mg/L		25	0.00058	0.000165	0.000384	0	0.0
Al-D	mg/L		25	0.0305	0.0233	0.0272	0	0.0
As-D	mg/L		25	0.000212	0.000160	0.000197	0	0.0
Ba-D	mg/L		25	0.00296	0.00217	0.00264	0	0.0
B-D	mg/L		25	0.039	0.023	0.034	0	0.0
Cd-D	mg/L	0.00014	25	<0.0000050	0.00000250	2.50E-06	0	0.0
Ca-D	mg/L		25	11.3	9.57	10.9	0	0.0
Cr-D	mg/L		25	0.0005	0.000089	0.00011	0	0.0
Co-D	mg/L		25	0.0000207	0.0000172	1.98E-05	0	0.0
Cu-D	mg/L	0.001	25	0.000693	0.000579	0.000642	0	0.0
Hard-D	mg/L		25	34.7	28.9	32.9	0	0.0
DOC	mg/L		25	3	2.482	2.9	0	0.0
Fe-D	mg/L		25	0.0325	0.0226	0.028	0	0.0
Pb-D	mg/L		25	0.0000267	0.00000402	5.82E-06	0	0.0
Mg-D	mg/L		25	1.58	1.203	1.436	0	0.0
Mn-D	mg/L		25	0.00352	0.00207	0.00291	0	0.0
Mo-D	mg/L		25	0.00069	0.000243	0.00029	0	0.0
Ni-D	mg/L	0.0017	25	0.000274	0.000075	8.80E-05	0	0.0
K-D	mg/L		25	0.202	0.139	0.188	0	0.0
S-D	mg/L		25	7.4	4.42	6.54	0	0.0
Se-D	mg/L		25	0.000077	0.0000480	5.82E-05	0	0.0
Na-D	mg/L		25	10	5.03	8.99	0	0.0
Sr-D	mg/L		25	0.0513	0.0375	0.0493	0	0.0
Zn-D	mg/L	0.012	25	0.00233	0.00085	0.00134	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March 31st 2026								
StnName		Quinsam River Downstream						
StnCode		QRDS						

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	3-Dec-25	4-Dec-25	5-Dec-25	6-Dec-25	7-Dec-25	8-Dec-25
pH-F	pH Units		7.78	7.76	7.62	7.62	7.62	7.41
Cond-F	uS/cm		291.2	182.2	344.5	243	290.9	480
Temp-F	C		6.56	6.4	6.532	5.786	6.28	6.728
Br-D	mg/L					<0.010	<0.010	<0.010
Cl-D	mg/L	150				<1.0	<1.0	<1.0
F-D	mg/L	1.1				<0.050	<0.050	<0.050
SO4-D	mg/L	218	33	45		30	29	68
TSS	mg/L	2.4	<1.0	<1.0		<1.0	7.2	<1.0
Alk-T	mg/L					37	37	62
Al-T	mg/L	0.28	0.0216	0.0229	0.0242	0.0231	0.0233	0.0264
As-T	mg/L	0.005	0.000198	0.00021	0.000207	0.000214	0.000219	0.000326
Ba-T	mg/L		0.00313	0.0032	0.00335	0.00308	0.00294	0.00507
B-T	mg/L	1.2	0.053	<0.050	0.048	0.038	0.035	0.103
Bicarb	mg/L					45	46	76
Cd-T	mg/L		<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		13.9	13.8	13.8	12.9	12.5	23.8
Cr-T	mg/L	0.0025	0.00013	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010
Co-T	mg/L	0.004	0.0000270	<0.00020	0.0000337	0.00003	0.0000311	0.0000849
Cu-T	mg/L		0.000492	0.00065	0.000636	0.00061	0.000597	0.000629
Hard-T	mg/L		41.9	41.8	42	39.1	37.7	72.3
Fe-T	mg/L	1	0.0757	0.090	0.108	0.0778	0.0952	0.47
Pb-T	mg/L		<0.0000050	<0.00020	0.0000055	0.0000053	0.0000053	0.0000054
Mg-T	mg/L		1.73	1.76	1.81	1.69	1.59	3.09
Mn-T	mg/L	0.86	0.0196	0.0222	0.0213	0.0166	0.0178	0.0815
Mo-T	mg/L		0.000168	<0.0010	0.000176	0.000179	0.000174	0.000183
Ni-T	mg/L		0.000073	<0.0010	0.000093	0.000084	0.000086	0.000149
K-T	mg/L		0.280	0.297	0.293	0.26	0.257	0.75
S-T	mg/L		11.0	11.5	11.7	9.9	9.3	30.6
Se-T	mg/L	0.002	0.000053	<0.00010	0.000042	0.000054	0.000052	0.000046
Ag-T	mg/L		<0.0000050	<0.000020	<0.0000050	<0.0000050	0.0000051	<0.0000050
Na-T	mg/L		13.7	14.9	14.6	11.5	11.4	37.7
Sr-T	mg/L		0.0792	0.0843	0.083	0.0701	0.0679	0.194
Zn-T	mg/L		0.00022	<0.0050	0.00029	0.00017	0.00023	0.00047
Al-D	mg/L		0.0181	0.0173	0.0191	0.0178	0.0183	0.0164
As-D	mg/L		0.000186	0.00017	0.000178	0.000198	0.000197	0.00023
Ba-D	mg/L		0.00308	0.0031	0.00324	0.00296	0.00288	0.00443
B-D	mg/L		0.053	<0.050	0.049	0.036	0.035	0.107
Cd-D	mg/L	0.00014	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		14.0	12.8	13.9	12.5	12.1	21.2
Cr-D	mg/L		0.00013	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000258	<0.00020	0.0000287	0.0000256	0.0000284	0.000064
Cu-D	mg/L	0.001	0.000490	0.00043	0.000579	0.00056	0.000579	0.000516
Hard-D	mg/L		42.2	39.4	42	37.6	36.6	63.7
DOC	mg/L					2.5	2.6	2.4
Fe-D	mg/L		0.0265	0.0243	0.0284	0.0288	0.0281	0.0533
Pb-D	mg/L		0.0000088	<0.00020	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.73	1.79	1.8	1.58	1.57	2.63
Mn-D	mg/L		0.0187	0.0196	0.0197	0.0146	0.0162	0.0629
Mo-D	mg/L		0.000175	<0.0010	0.000185	0.000191	0.000193	0.000189
Ni-D	mg/L	0.0017	0.000089	<0.0010	0.000096	0.000079	0.000074	0.00012
K-D	mg/L		0.282	0.286	0.291	0.25	0.255	0.63
S-D	mg/L		10.9	11.5	11.9	9.5	9.8	25.8
Se-D	mg/L		0.000048	<0.00010	0.000053	0.00005	0.000048	0.000046
Na-D	mg/L		13.7	14.0	14.8	11.1	11.3	33
Sr-D	mg/L		0.0774	0.0795	0.0824	0.0679	0.0694	0.164
Zn-D	mg/L	0.012	0.00067	<0.0050	0.0005	0.00071	0.00058	0.00059

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	9-Dec-25	10-Dec-25	11-Dec-25	12-Dec-25	14-Dec-25	15-Dec-25
pH-F	pH Units		7.4	7.67	6.71	7.61	7.57	7.52
Cond-F	uS/cm		404.3	169.7	248.1	208.6	111.9	146.3
Temp-F	C		6.084	6.39	6.28	6.487	7.171	7.381
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	23	43	51	57	38	31
TSS	mg/L	2.4	2.4	<1.0	1.6	<1.0	<1.0	2.8
Alk-T	mg/L		29	42	46	53	42	37
Al-T	mg/L	0.28	0.029	0.0343	0.0316	0.0366	0.048	0.067
As-T	mg/L	0.005	0.000223	0.000246	0.000218	0.000265	0.000238	0.000247
Ba-T	mg/L		0.00247	0.0032	0.00335	0.00354	0.00324	0.00288
B-T	mg/L	1.2	0.034	0.06	0.055	0.082	0.052	0.042
Bicarb	mg/L		35	51	56	64	51	45
Cd-T	mg/L		<0.0000050	0.0000053	<0.0000050	0.0000106	<0.0000050	<0.0000050
Ca-T	mg/L		12.3	15.4	17.1	18.5	15.9	13
Cr-T	mg/L	0.0025	<0.00010	0.00012	<0.00010	0.00011	0.0002	0.00013
Co-T	mg/L	0.004	0.000035	0.0000568	0.0000606	0.0000789	0.000075	0.000067
Cu-T	mg/L		0.000611	0.00065	0.000625	0.000687	0.00287	0.00077
Hard-T	mg/L		37	46.5	51.2	55.5	48.3	39.1
Fe-T	mg/L	1	0.0965	0.18	0.264	0.288	0.255	0.224
Pb-T	mg/L		0.0000051	0.0000419	0.0000074	0.0000375	0.000038	0.0000158
Mg-T	mg/L		1.52	1.96	2.06	2.27	2.11	1.65
Mn-T	mg/L	0.86	0.0149	0.0316	0.0417	0.0479	0.0366	0.0273
Mo-T	mg/L		0.000167	0.000177	0.000185	0.000191	0.000276	0.000172
Ni-T	mg/L		0.000084	0.000142	0.000108	0.000130	0.00047	0.000132
K-T	mg/L		0.201	0.355	0.416	0.489	0.39	0.26
S-T	mg/L		7.4	14.3	16.7	19.5	15	9.5
Se-T	mg/L	0.002	0.000047	0.000052	0.000052	0.000069	0.000061	0.00005
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050
Na-T	mg/L		8.81	18.1	21	25.5	19.4	12.3
Sr-T	mg/L		0.0552	0.103	0.113	0.130	0.101	0.0732
Zn-T	mg/L		<0.00010	0.00021	<0.00010	0.00018	0.0016	0.00033
Al-D	mg/L		0.018	0.019	0.0211	0.0236	0.0236	0.0228
As-D	mg/L		0.000206	0.000195	0.000179	0.000198	0.000167	0.000171
Ba-D	mg/L		0.00322	0.00295	0.00316	0.00318	0.00251	0.00257
B-D	mg/L		0.064	0.051	0.068	0.073	0.05	0.044
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		16.1	15.2	16.8	17.7	13.7	13
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000423	0.0000401	0.0000488	0.0000562	0.0000367	0.00003
Cu-D	mg/L	0.001	0.000534	0.000442	0.000515	0.000563	0.000574	0.000535
Hard-D	mg/L		48.9	45.7	50.9	53.1	41	39.4
DOC	mg/L		2.6	2.6	2.7	2.7	2.8	2.7
Fe-D	mg/L		0.0398	0.0431	0.0506	0.0584	0.0423	0.04
Pb-D	mg/L		<0.0000050	0.000065	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		2.11	1.86	2.15	2.17	1.67	1.66
Mn-D	mg/L		0.0363	0.0293	0.0386	0.0406	0.0248	0.0194
Mo-D	mg/L		0.000169	0.000164	0.000195	0.000183	0.000252	0.000187
Ni-D	mg/L	0.0017	0.000108	0.000156	0.000103	0.000116	0.000086	0.000102
K-D	mg/L		0.388	0.346	0.422	0.441	0.301	0.278
S-D	mg/L		15.5	13.8	17.1	17.7	11.1	10.5
Se-D	mg/L		0.000046	0.000054	0.000047	0.000049	0.000049	<0.000040
Na-D	mg/L		19.4	17.1	21.9	23.3	15.4	13.5
Sr-D	mg/L		0.109	0.0965	0.122	0.118	0.0806	0.0772
Zn-D	mg/L	0.012	0.00024	0.00081	0.00028	0.00045	0.00096	0.00072

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	16-Dec-25	17-Dec-25	18-Dec-25	19-Dec-25	22-Dec-25	23-Dec-25
pH-F	pH Units		7.58	7.59	7.59	7.53	7.51	7.7
Cond-F	uS/cm		134.2	67.2	127.5	158.3	183.4	109.3
Temp-F	C		6.975	6.07	6.34	5.356	5.042	4.661
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	33	28	28	39	48	16
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Alk-T	mg/L		38	32	35	40	51	30
Al-T	mg/L	0.28	0.0645	0.0309	0.0557	0.0484	0.0371	0.0339
As-T	mg/L	0.005	0.000182	0.000181	0.000168	0.000229	0.000268	0.000175
Ba-T	mg/L		0.00266	0.00175	0.00258	0.00271	0.00309	0.00177
B-T	mg/L	1.2	0.043	0.034	0.046	0.056	0.081	0.024
Bicarb	mg/L		46	39	43	49	62	37
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000067
Ca-T	mg/L		11.5	12	12.9	13.5	17.4	9.93
Cr-T	mg/L	0.0025	0.00013	0.00011	0.00011	0.00014	<0.00010	0.00011
Co-T	mg/L	0.004	0.000068	0.00003	0.000065	0.000067	0.000085	0.0000358
Cu-T	mg/L		0.00106	0.0007	0.00077	0.00102	0.000711	0.000662
Hard-T	mg/L		34.8	35	39.2	40.8	52.1	29.8
Fe-T	mg/L	1	0.198	0.0487	0.174	0.224	0.321	0.0619
Pb-T	mg/L		0.000022	<0.000020	0.00001	0.000026	0.000007	0.0000107
Mg-T	mg/L		1.48	1.2	1.72	1.74	2.09	1.22
Mn-T	mg/L	0.86	0.0279	0.00893	0.0266	0.0311	0.0413	0.00764
Mo-T	mg/L		0.000169	0.000443	0.000173	0.000187	0.000174	0.000174
Ni-T	mg/L		0.00016	<0.00010	0.000117	0.00015	0.000142	0.000077
K-T	mg/L		0.28	<0.25	0.3	0.33	0.472	0.162
S-T	mg/L		10.1	7.8	10.9	12.2	18.1	4.8
Se-T	mg/L	0.002	0.00005	0.00007	0.000054	0.000052	0.000057	0.000063
Ag-T	mg/L		<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050	<0.0000050
Na-T	mg/L		13.1	9.94	14.6	16.8	25.3	6.35
Sr-T	mg/L		0.0751	0.0545	0.08	0.0865	0.116	0.0391
Zn-T	mg/L		0.0015	<0.0010	0.00049	<0.0010	0.00021	0.0002
Al-D	mg/L		0.026	0.026	0.0245	0.0248	0.0233	0.02
As-D	mg/L		0.000145	0.000156	0.000117	0.000158	0.000174	0.000173
Ba-D	mg/L		0.00236	0.00209	0.00209	0.00233	0.00276	0.00185
B-D	mg/L		0.044	0.042	0.033	0.056	0.073	0.023
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		11.8	12	11.8	14.4	16.5	9.83
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00012
Co-D	mg/L		0.0000417	0.000039	0.000039	0.000052	0.000071	0.0000218
Cu-D	mg/L	0.001	0.000599	0.00061	0.000608	0.000579	0.000561	0.000588
Hard-D	mg/L		35.8	35.8	35.4	43.1	49.4	29.4
DOC	mg/L		2.9	2.9	2.8	2.7	2.6	2.6
Fe-D	mg/L		0.0401	0.0327	0.0317	0.0347	0.0285	0.021
Pb-D	mg/L		0.0000066	<0.0000050	<0.0000050	<0.0000050	0.000007	<0.0000050
Mg-D	mg/L		1.54	1.42	1.47	1.72	1.97	1.17
Mn-D	mg/L		0.021	0.0219	0.0195	0.0284	0.0358	0.00651
Mo-D	mg/L		0.000296	0.000169	0.000207	0.000241	0.000202	0.000325
Ni-D	mg/L	0.0017	0.000099	0.000086	0.000086	0.000098	0.000141	0.000072
K-D	mg/L		0.275	0.259	0.257	0.334	0.431	0.154
S-D	mg/L		9.7	9.1	9.3	12.9	16.8	3.5
Se-D	mg/L		0.000051	0.000051	0.000053	0.000054	0.000056	0.000054
Na-D	mg/L		12.7	12	11.6	16.7	23	6.5
Sr-D	mg/L		0.0741	0.0659	0.0636	0.0866	0.108	0.0404
Zn-D	mg/L	0.012	0.0012	0.00021	0.00028	<0.00010	0.00086	0.00237

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	24-Dec-25	28-Dec-25	30-Dec-25	31-Dec-25	3-Jan-26	6-Jan-26
pH-F	pH Units		7.58	7.61	7.74	6.83		6.77
Cond-F	uS/cm		159.3	197	130.1	170		131.3
Temp-F	C		4.72	3.701	4.196	4.621		3.979
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	19	62	46	25	60	27
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		31	61	49	37	62	37
Al-T	mg/L	0.28	0.0441	0.0296	0.0323	0.0266	0.0288	0.0285
As-T	mg/L	0.005	0.000217	0.000272	0.000264	0.00028	0.000324	0.000241
Ba-T	mg/L		0.00214	0.00351	0.00254	0.00229	0.00385	0.00222
B-T	mg/L	1.2	0.031	0.094	0.045	0.04	0.087	0.037
Bicarb	mg/L		38	74	60	45	76	45
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.7	18.5	12.4	11.3	18.3	11.2
Cr-T	mg/L	0.0025	0.00013	0.00011	0.00012	<0.00010	0.00017	<0.00010
Co-T	mg/L	0.004	0.0000415	0.000106	0.0000519	0.0000396	0.0000917	0.0000307
Cu-T	mg/L		0.000995	0.000686	0.000695	0.000603	0.000718	0.000591
Hard-T	mg/L		32.5	55.9	37.7	34.2	55.1	33.9
Fe-T	mg/L	1	0.128	0.236	0.106	0.074	0.247	0.065
Pb-T	mg/L		0.0000289	<0.0000050	<0.0000050	<0.0000050	0.0000232	<0.0000050
Mg-T	mg/L		1.42	2.38	1.63	1.44	2.29	1.45
Mn-T	mg/L	0.86	0.011	0.0430	0.0158	0.0114	0.0407	0.00877
Mo-T	mg/L		0.000165	0.000176	0.000175	0.000194	0.000166	0.000174
Ni-T	mg/L		0.000106	0.000199	0.000115	0.000094	0.000175	0.000076
K-T	mg/L		0.189	0.508	0.265	0.223	0.494	0.208
S-T	mg/L		5.7	19.8	9.3	7.8	20	7.8
Se-T	mg/L	0.002	0.000061	0.000054	0.000058	0.000053	0.000053	0.000049
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		8.15	28.1	13.1	11.2	28.4	10.7
Sr-T	mg/L		0.0466	0.125	0.0695	0.0583	0.131	0.0546
Zn-T	mg/L		0.00094	0.00011	0.00021	0.00468	0.00228	0.00013
Al-D	mg/L		0.0219	0.0189	0.0208	0.021	0.0182	0.0224
As-D	mg/L		0.000159	0.000219	0.000223	0.000251	0.000208	0.000184
Ba-D	mg/L		0.00184	0.00339	0.00219	0.00231	0.00331	0.00228
B-D	mg/L		0.028	0.084	0.04	0.04	0.087	0.043
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.4	19.1	11.7	11.9	18.5	12
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.000028	0.000104	0.0000417	0.0000345	0.0000864	0.0000262
Cu-D	mg/L	0.001	0.000613	0.000546	0.000573	0.000571	0.000517	0.000483
Hard-D	mg/L		30.9	56.5	34.7	35.7	55.9	36.7
DOC	mg/L		2.8	2.6	2.4	2.4	2.1	2.6
Fe-D	mg/L		0.0246	0.0292	0.0246	0.0252	0.0284	0.0273
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.2	2.14	1.36	1.43	2.34	1.61
Mn-D	mg/L		0.00853	0.0440	0.0131	0.0106	0.0379	0.0083
Mo-D	mg/L		0.000186	0.000189	0.000194	0.000188	0.000244	0.000174
Ni-D	mg/L	0.0017	0.000075	0.000175	0.000095	0.000084	0.000217	0.000055
K-D	mg/L		0.183	0.534	0.235	0.232	0.493	0.228
S-D	mg/L		5.4	19.4	8.2	8.1	19.7	8.3
Se-D	mg/L		0.000061	0.000052	0.000051	0.000048	0.000043	0.000061
Na-D	mg/L		7.15	25.9	10.5	10.9	29.5	11.9
Sr-D	mg/L		0.045	0.135	0.063	0.0597	0.127	0.0563
Zn-D	mg/L	0.012	0.00052	0.00045	0.00063	0.00059	0.00105	0.00041

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	7-Jan-26	8-Jan-26	19-Jan-26	26-Jan-26	29-Jan-26	2-Feb-26
pH-F	pH Units		6.72	7.17	6.49	6.3	6.8	6.53
Cond-F	uS/cm		449.4	150.4	162.8	241.1	182.3	237.1
Temp-F	C		4.302	3.919	4.335	4.462	4.748	5.46
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	26	28	25	56	42	50
TSS	mg/L	2.4	<1.0	1.2	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		37	39	34	59	50	56
Al-T	mg/L	0.28	0.0286	0.0261	0.0385	0.0301	0.0272	0.0415
As-T	mg/L	0.005	0.00023	0.000208	0.000186	0.000258	0.000257	0.00023
Ba-T	mg/L		0.00223	0.00232	0.00211	0.00258	0.00267	0.00287
B-T	mg/L	1.2	0.044	0.05	0.037	0.057	0.062	0.076
Bicarb	mg/L		45	47	42	72	61	69
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11.6	11.8	11.7	13.4	14.4	16.3
Cr-T	mg/L	0.0025	<0.00010	<0.00010	0.00011	0.0001	<0.00010	0.00011
Co-T	mg/L	0.004	0.0000313	0.0000365	0.0000475	0.0000809	0.000108	0.000151
Cu-T	mg/L		0.000575	0.000581	0.000686	0.000668	0.000662	0.000744
Hard-T	mg/L		34.8	35.9	34.9	40.4	42.9	48.4
Fe-T	mg/L	1	0.0815	0.0815	0.098	0.148	0.159	0.198
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005
Mg-T	mg/L		1.42	1.53	1.38	1.68	1.69	1.86
Mn-T	mg/L	0.86	0.0103	0.012	0.0178	0.028	0.0331	0.0421
Mo-T	mg/L		0.000179	0.00018	0.000173	0.00017	0.000165	0.000158
Ni-T	mg/L		0.000067	0.000103	0.000096	0.000141	0.000202	0.000232
K-T	mg/L		0.222	0.258	0.237	0.329	0.368	0.439
S-T	mg/L		8.3	9	7.4	11.4	13.7	16.6
Se-T	mg/L	0.002	0.000049	0.000045	0.000079	0.000059	0.000052	0.000053
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		11.4	13.5	11.1	16.4	19.4	23.7
Sr-T	mg/L		0.0591	0.0666	0.0553	0.0788	0.0866	0.106
Zn-T	mg/L		<0.00010	0.00044	0.00018	0.0001	0.00045	0.00015
Al-D	mg/L		0.0214	0.0195	0.024	0.0215	0.02	0.025
As-D	mg/L		0.000198	0.000182	0.000164	0.000217	0.000235	0.000181
Ba-D	mg/L		0.00222	0.00227	0.00208	0.00246	0.00271	0.00225
B-D	mg/L		0.045	0.048	0.04	0.059	0.07	0.057
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		11.7	11.7	12.1	13.6	14.8	14.2
Cr-D	mg/L		<0.00010	<0.00010	0.00011	<0.00010	0.00011	<0.00010
Co-D	mg/L		0.0000286	0.0000336	0.0000461	0.0000781	0.000102	0.000112
Cu-D	mg/L	0.001	0.00051	0.000584	0.000658	0.000573	0.000571	0.000568
Hard-D	mg/L		35.8	35.2	36.1	41.2	44.3	42.7
DOC	mg/L		2.7	2.6	2.7	2.4	2.8	2.9
Fe-D	mg/L		0.027	0.0279	0.0224	0.0436	0.0484	0.0555
Pb-D	mg/L		<0.0000050	<0.0000050	0.0000057	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.57	1.47	1.45	1.74	1.79	1.74
Mn-D	mg/L		0.00926	0.011	0.018	0.0271	0.0356	0.0315
Mo-D	mg/L		0.0002	0.000186	0.000363	0.000186	0.000189	0.000193
Ni-D	mg/L	0.0017	0.000073	0.000135	0.000089	0.000156	0.000214	0.000182
K-D	mg/L		0.239	0.285	0.255	0.337	0.401	0.355
S-D	mg/L		8.7	8.3	8.5	12.3	14.2	12.9
Se-D	mg/L		0.000042	0.000043	0.000057	0.000063	0.000057	0.000052
Na-D	mg/L		12.1	12.6	12.2	17.2	20.3	19.6
Sr-D	mg/L		0.0578	0.066	0.0594	0.082	0.086	0.0856
Zn-D	mg/L	0.012	0.00064	0.00118	0.00179	0.0003	0.00031	0.00028

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	5-Feb-26	9-Feb-26	23-Feb-26	25-Feb-26	2-Mar-26	4-Mar-26
pH-F	pH Units		6.57	7.09	7.12	7.18	6.9	7.2
Cond-F	uS/cm		196.6	161.4	141	176	189.3	188.6
Temp-F	C		5.4	5.899	3.46	4.253	4.161	5.36
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	50	33	38	48	41	42
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		57	44	40	50	45	47
Al-T	mg/L	0.28	0.0347	0.039	0.0464	0.0164	0.0318	0.0314
As-T	mg/L	0.005	0.00024	0.000253	0.00033	0.000277	0.000246	0.000269
Ba-T	mg/L		0.00296	0.00281	0.00324	0.00351	0.00322	0.00321
B-T	mg/L	1.2	0.089	0.082	0.045	0.099	0.069	0.064
Bicarb	mg/L		70	53	49	62	55	57
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		16.4	15.3	13.7	18	15.5	15.1
Cr-T	mg/L	0.0025	<0.00010	0.0001	<0.00010	<0.00010	0.00054	<0.00010
Co-T	mg/L	0.004	0.000176	0.000164	0.0000678	0.0000747	0.0000756	0.0000877
Cu-T	mg/L		0.000694	0.00071	0.000608	0.000529	0.000683	0.000614
Hard-T	mg/L		49.1	46.5	41.4	54.6	47.1	45.6
Fe-T	mg/L	1	0.191	0.178	0.0951	0.0863	0.121	0.116
Pb-T	mg/L		<0.0000050	<0.0000050	0.0000062	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.99	2	1.75	2.37	2.03	1.95
Mn-T	mg/L	0.86	0.0473	0.0396	0.0216	0.0347	0.0282	0.0275
Mo-T	mg/L		0.000171	0.000168	0.000134	0.000224	0.000187	0.000162
Ni-T	mg/L		0.000282	0.000284	0.000148	0.000185	0.000324	0.00018
K-T	mg/L		0.474	0.43	0.293	0.559	0.366	0.359
S-T	mg/L		18.1	15.9	11.4	22.1	14.9	13.1
Se-T	mg/L	0.002	0.000044	<0.000040	0.000042	<0.000040	0.000045	0.000051
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		26.4	23	12.5	31.7	19.7	18.5
Sr-T	mg/L		0.116	0.108	0.0747	0.144	0.0897	0.0935
Zn-T	mg/L		0.00072	0.00019	0.00021	<0.00010	<0.00010	0.00028
Al-D	mg/L		0.0267	0.0222	0.0298	0.0276	0.0225	0.0217
As-D	mg/L		0.000233	0.00019	0.000243	0.000247	0.000238	0.000227
Ba-D	mg/L		0.00319	0.00264	0.00294	0.00286	0.00297	0.00312
B-D	mg/L		0.103	0.069	0.048	0.054	0.063	0.065
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		18.7	15.5	13.6	13	14.4	14.6
Cr-D	mg/L		<0.00010	0.0001	<0.00010	0.00022	0.00039	<0.00010
Co-D	mg/L		0.000192	0.000163	0.0000534	0.0000665	0.0000717	0.0000817
Cu-D	mg/L	0.001	0.000587	0.00059	0.000502	0.00057	0.000579	0.000532
Hard-D	mg/L		56.3	46.1	41.6	39.8	43.8	44.8
DOC	mg/L		2.5	2.8	2.7	2.4	2.5	4
Fe-D	mg/L		0.067	0.0544	0.0341	0.0439	0.0262	0.0245
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		2.32	1.8	1.87	1.82	1.88	1.99
Mn-D	mg/L		0.0539	0.0392	0.0174	0.0226	0.0255	0.0261
Mo-D	mg/L		0.000389	0.000562	0.000158	0.000173	0.000205	0.000186
Ni-D	mg/L	0.0017	0.000355	0.000261	0.000127	0.000175	0.000266	0.000159
K-D	mg/L		0.542	0.408	0.28	0.293	0.36	0.356
S-D	mg/L		21.7	15.4	11	10.9	13.6	13.8
Se-D	mg/L		0.000058	0.00005	0.000043	<0.000040	<0.000040	<0.000040
Na-D	mg/L		30.6	21.2	12.2	13.9	17.9	18.9
Sr-D	mg/L		0.134	0.0963	0.0701	0.0812	0.0878	0.0951
Zn-D	mg/L	0.012	0.0017	0.0025	0.0007	0.0003	0.00028	0.00031

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	9-Mar-26	11-Mar-26	16-Mar-26	18-Mar-26	23-Mar-26	25-Mar-26
pH-F	pH Units		7.04	7.1	6.94	6.87	6.75	7.36
Cond-F	uS/cm		133.8	188.2	289.9	176	177.8	223.8
Temp-F	C		6.206	5.5	5.573	6.058	6.786	6.178
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	27	46	76	34	37	42
TSS	mg/L	2.4	<1.0	<1.0	1.2	<1.0	1.2	<1.0
Alk-T	mg/L		34	46	74	34	41	46
Al-T	mg/L	0.28	0.0274	0.028	0.0285	0.045	0.0327	0.0365
As-T	mg/L	0.005	0.000332	0.000292	0.000346	0.000298	0.000214	0.000238
Ba-T	mg/L		0.00294	0.00343	0.00442	0.00335	0.00254	0.00281
B-T	mg/L	1.2	0.043	0.068	0.117	0.049	0.055	0.061
Bicarb	mg/L		41	56	90	42	50	57
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		12.1	15.8	21.6	14.1	14	15.6
Cr-T	mg/L	0.0025	<0.00010	<0.00010	<0.00010	0.00011	0.00011	0.00011
Co-T	mg/L	0.004	0.0000542	0.0000913	0.000209	0.0000636	0.000161	0.000171
Cu-T	mg/L		0.000567	0.000663	0.0007	0.000557	0.000704	0.000734
Hard-T	mg/L		36.6	48.5	66.3	43.4	41.9	46.9
Fe-T	mg/L	1	0.0784	0.116	0.225	0.105	0.117	0.187
Pb-T	mg/L		<0.0000050	<0.0000050	0.000028	0.000005	<0.0000050	<0.0000050
Mg-T	mg/L		1.56	2.18	3.01	1.96	1.68	1.89
Mn-T	mg/L	0.86	0.0161	0.0278	0.0636	0.018	0.035	0.039
Mo-T	mg/L		0.00018	0.00018	0.000177	0.000168	0.000166	0.000175
Ni-T	mg/L		0.000125	0.000181	0.00035	0.000145	0.000254	0.000259
K-T	mg/L		0.25	0.38	0.63	0.251	0.339	0.37
S-T	mg/L		9.6	15.7	26	10.7	13.6	14.4
Se-T	mg/L	0.002	0.000049	<0.000040	<0.000040	<0.000040	<0.000040	0.000049
Ag-T	mg/L		<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		11.1	20.3	36.1	10.6	18.2	20.1
Sr-T	mg/L		0.072	0.107	0.168	0.0796	0.0818	0.102
Zn-T	mg/L		0.0001	<0.00010	<0.0010	0.00055	0.00018	0.00018
Al-D	mg/L		0.0215	0.0211	0.0282	0.0245	0.0222	0.0225
As-D	mg/L		0.000277	0.000248	0.000393	0.000243	0.000182	0.000189
Ba-D	mg/L		0.00282	0.00351	0.00468	0.0031	0.00227	0.00259
B-D	mg/L		0.046	0.069	0.119	0.043	0.059	0.062
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.7	16.5	24.4	14.1	13	14.2
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000449	0.0000861	0.00022	0.0000627	0.000127	0.000141
Cu-D	mg/L	0.001	0.000487	0.000508	0.000664	0.000539	0.000564	0.000572
Hard-D	mg/L		38.6	50.3	73.6	42.7	39	43.1
DOC	mg/L		2.3	2.3	2.4	2.4	2.4	2.3
Fe-D	mg/L		0.0257	0.0254	0.0913	0.0395	0.0343	0.0431
Pb-D	mg/L		<0.0000050	<0.0000050	0.0000165	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.66	2.2	3.06	1.83	1.61	1.84
Mn-D	mg/L		0.0142	0.027	0.0676	0.0162	0.0305	0.0339
Mo-D	mg/L		0.000211	0.000211	0.000461	0.000163	0.000228	0.000193
Ni-D	mg/L	0.0017	0.000121	0.000182	0.000423	0.000146	0.000222	0.000216
K-D	mg/L		0.246	0.381	0.71	0.252	0.286	0.326
S-D	mg/L		9.6	15.8	26.8	10.2	10.7	13.2
Se-D	mg/L		0.000042	0.000054	0.000044	0.000044	0.000067	0.00005
Na-D	mg/L		11.2	20.9	39.8	10.3	15.3	17.5
Sr-D	mg/L		0.0737	0.11	0.181	0.0765	0.0762	0.0879
Zn-D	mg/L	0.012	0.0006	0.00151	0.00291	0.00038	0.0012	0.00123

Attachment 1
River Barrier Pillar Passive Treatment System
Table 12

Quinsam River - November 20, 2025 to March								
StnName		Quinsam River Downstream						
StnCode		QRDS						
		QRTrigger2 (T)	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		47	8.06	7.29	7.72	0	0.0
Cond-F	uS/cm		47	480	217.4	368.4	0	0.0
Temp-F	C		47	7.492	5.663	7.053	0	0.0
Br-D	mg/L		41	0.114	0.0077	0.01	0	0.0
Cl-D	mg/L	150	41	1.1	0.51	1	0	0.0
F-D	mg/L	1.1	41	<0.050	0.0250	0.05	0	0.0
SO4-D	mg/L	218	45	97	41.4	61.2	0	0.0
TSS	mg/L	2.4	47	7.2	0.84	1.36	2	4.3
Alk-T	mg/L		40	79	45.0	61.1	0	0.0
Al-T	mg/L	0.28	48	0.067	0.0330	0.0469	0	0.0
As-T	mg/L	0.005	48	0.000346	0.000246	0.000321	0	0.0
Ba-T	mg/L		48	0.00608	0.00307	0.00363	0	0.0
B-T	mg/L	1.2	48	0.152	0.0607	0.0955	0	0.0
Bicarb	mg/L		40	96	54.9	74.2	0	0.0
Cd-T	mg/L		48	0.0000106	0.00000313	5.00E-06	0	0.0
Ca-T	mg/L		48	30.9	15.10	18.5	0	0.0
Cr-T	mg/L	0.0025	48	0.00054	0.000150	0.0005	0	0.0
Co-T	mg/L	0.004	48	0.000209	0.0000788	0.000154	0	0.0
Cu-T	mg/L		48	0.00287	0.000730	0.000948	0	0.0
Hard-T	mg/L		48	92.9	45.6	55.6	0	0.0
Fe-T	mg/L	1	48	0.644	0.1792	0.2889	0	0.0
Pb-T	mg/L		48	<0.00020	0.00002082	0.0001	0	0.0
Mg-T	mg/L		48	3.79	1.92	2.37	0	0.0
Mn-T	mg/L	0.86	48	0.114	0.03152	0.04748	0	0.0
Mo-T	mg/L		48	<0.0010	0.000223	0.0005	0	0.0
Ni-T	mg/L		48	<0.0010	0.000201	0.0005	0	0.0
K-T	mg/L		48	0.910	0.362	0.523	0	0.0
S-T	mg/L		48	39.7	14.3	20.6	0	0.0
Se-T	mg/L	0.002	48	0.000079	0.0000488	6.10E-05	0	0.0
Ag-T	mg/L		48	<0.000020	0.00000375	1.00E-05	0	0.0
Na-T	mg/L		48	53.7	18.83	29.39	0	0.0
Sr-T	mg/L		48	0.255	0.0959	0.1349	0	0.0
Zn-T	mg/L		48	0.00468	0.000738	0.0025	0	0.0
Al-D	mg/L		48	0.0298	0.0214	0.026	0	0.0
As-D	mg/L		48	0.000393	0.000202	0.000244	0	0.0
Ba-D	mg/L		48	0.00509	0.00289	0.0035	0	0.0
B-D	mg/L		48	0.146	0.0591	0.0918	0	0.0
Cd-D	mg/L	0.00014	48	0.000005	0.00000286	5.00E-06	0	0.0
Ca-D	mg/L		48	28.9	14.95	19.1	0	0.0
Cr-D	mg/L		48	<0.0010	0.000126	0.0005	0	0.0
Co-D	mg/L		48	0.00022	0.0000701	0.0001165	0	0.0
Cu-D	mg/L	0.001	48	0.000664	0.000551	0.000602	0	0.0
Hard-D	mg/L		48	87.2	45.1	56.7	0	0.0
DOC	mg/L		41	4	2.6	2.9	0	0.0
Fe-D	mg/L		48	0.0913	0.0378	0.0564	0	0.0
Pb-D	mg/L		48	<0.00020	0.00001666	0.0001	0	0.0
Mg-D	mg/L		48	3.64	1.88	2.33	0	0.0
Mn-D	mg/L		48	0.106	0.02924	0.04697	0	0.0
Mo-D	mg/L		48	0.000562	0.000258	0.0005	0	0.0
Ni-D	mg/L	0.0017	48	<0.0010	0.000187	0.0005	0	0.0
K-D	mg/L		48	0.873	0.356	0.536	0	0.0
S-D	mg/L		48	41.8	13.8	20.3	0	0.0
Se-D	mg/L		48	0.000067	0.0000483	5.73E-05	0	0.0
Na-D	mg/L		48	50.2	18.07	29.83	0	0.0
Sr-D	mg/L		48	0.240	0.0938	0.1343	0	0.0
Zn-D	mg/L	0.012	48	0.00291	0.001025	0.0025	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20, 2025 to March 31st 2026										
StnName		Quinsam River Downstream (100m) of RPBO Discharge (QRDSA)								
StnCode		QRDSA								
		QRtrigger2	10-Dec-25	11-Dec-25	12-Dec-25	14-Dec-25	15-Dec-25	16-Dec-25	17-Dec-25	18-Dec-25
pH-F	pH Units		6.47	6.56	7.61	7.56	7.53	7.63	7.74	7.68
Cond-F	uS/cm		150.4	127.2	163.6	143.1	119.5	100.2	94.7	97.8
Temp-F	C		6.47	6.81	6.691	7.632	7.657	6.901	6.07	6.3
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	29	27	26	24	28	19	17	18
TSS	mg/L	2.4	<1.0	1.2	<1.0	3.2	2.4	2	1.2	<1.0
Alk-T	mg/L		37	36	35	34	35	29	28	30
Al-T	mg/L	0.28	0.0345	0.0322	0.0415	0.0423	0.0492	0.0726	0.0338	0.0566
As-T	mg/L	0.005	0.000228	0.00019	0.000219	0.000207	0.000208	0.000162	0.000184	0.000146
Ba-T	mg/L		0.00276	0.00247	0.00245	0.0027	0.00258	0.00218	0.00205	0.00206
B-T	mg/L	1.2	0.046	0.03	0.041	0.039	0.04	0.027	0.025	0.026
Bicarb	mg/L		45	44	42	42	42	35	34	37
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		12.5	12.2	12.0	13.4	13.1	9.09	11.1	10.1
Cr-T	mg/L	0.0025	0.00011	<0.00010	0.00010	0.00014	0.00012	0.00018	0.0001	0.00012
Co-T	mg/L	0.004	0.000037	0.0000371	0.0000428	0.000049	0.0000467	0.000062	0.000028	0.000046
Cu-T	mg/L		0.000626	0.000604	0.000647	0.00136	0.000699	0.00134	0.00068	0.000772
Hard-T	mg/L		38.2	36.8	36.2	40.2	39.4	27.5	32.6	30.7
Fe-T	mg/L	1	0.132	0.124	0.134	0.151	0.142	0.13	0.0304	0.0995
Pb-T	mg/L		0.0000825	0.000005	0.0000071	0.000055	0.0000095	0.000043	<0.000020	0.00001
Mg-T	mg/L		1.67	1.53	1.50	1.66	1.61	1.17	1.17	1.31
Mn-T	mg/L	0.86	0.02	0.0175	0.0183	0.0196	0.019	0.015	0.00719	0.0123
Mo-T	mg/L		0.000174	0.000173	0.000164	0.000253	0.00017	0.000179	0.000135	0.000177
Ni-T	mg/L		0.000117	0.000084	0.000099	0.00049	0.000135	0.00015	0.00012	0.000103
K-T	mg/L		0.256	0.228	0.230	0.27	0.242	<0.25	<0.25	0.185
S-T	mg/L		9.9	8.4	8.4	9.2	8.9	5.4	5.2	5.8
Se-T	mg/L	0.002	0.000052	0.00005	0.000050	0.000061	0.000054	0.000046	0.000059	0.000056
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010	<0.000010	<0.0000050
Na-T	mg/L		12.2	10.7	11.1	11.9	11.2	6.99	6.5	7.26
Sr-T	mg/L		0.0739	0.0625	0.0639	0.0709	0.0652	0.043	0.0469	0.0438
Zn-T	mg/L		0.0004	0.00025	0.00011	0.0036	0.00088	<0.0010	<0.0010	0.00029
Al-D	mg/L		0.0226	0.0221	0.0248	0.0244	0.0227	0.0276	0.0267	0.0255
As-D	mg/L		0.000195	0.000172	0.000180	0.000172	0.000167	0.000121	0.000141	0.000122
Ba-D	mg/L		0.00249	0.0024	0.00225	0.00222	0.0024	0.00195	0.00175	0.00183
B-D	mg/L		0.036	0.037	0.037	0.038	0.039	0.029	0.026	0.022
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000011
Ca-D	mg/L		12.9	12.5	12.2	12	12.2	9.55	9.42	9.57
Cr-D	mg/L		0.00012	<0.00010	<0.00010	0.0001	<0.00010	0.00011	0.0001	<0.00010
Co-D	mg/L		0.0000298	0.0000265	0.0000303	0.0000296	0.0000253	0.000028	0.000024	0.000026
Cu-D	mg/L	0.001	0.000493	0.000535	0.000583	0.000671	0.00056	0.00061	0.000632	0.000708
Hard-D	mg/L		38.4	37.7	36.5	35.9	36.8	29	28.2	28.9
DOC	mg/L		2.6	2.8	2.9	2.7	2.8	2.9	2.9	2.9
Fe-D	mg/L		0.04	0.0395	0.0407	0.0377	0.0366	0.0316	0.0269	0.0271
Pb-D	mg/L		0.0000081	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000034
Mg-D	mg/L		1.52	1.57	1.47	1.47	1.54	1.26	1.12	1.21
Mn-D	mg/L		0.0161	0.0144	0.0134	0.0168	0.0144	0.00947	0.00853	0.00986
Mo-D	mg/L		0.000172	0.000228	0.000199	0.000199	0.000199	0.000306	0.000196	0.00148
Ni-D	mg/L	0.0017	0.000479	0.00008	0.000082	0.000095	0.000086	0.000084	0.000089	0.000078
K-D	mg/L		0.248	0.224	0.221	0.242	0.237	0.186	0.166	0.244
S-D	mg/L		9	8.4	8.0	8.4	8.6	5.9	5	5.4
Se-D	mg/L		0.000044	0.000051	0.000046	0.000053	0.00005	0.000057	0.000055	0.000051
Na-D	mg/L		11	10.8	10.5	11.7	11	7.34	6.17	6.39
Sr-D	mg/L		0.0684	0.069	0.0624	0.0632	0.0663	0.0448	0.0414	0.0397
Zn-D	mg/L	0.012	0.00149	0.00126	0.00094	0.00069	0.00057	0.00103	0.0006	0.00609

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20,							
StnName		Quinsam R					
StnCode		QRDSA					
		QRTrigger2	19-Dec-25	22-Dec-25	23-Dec-25	24-Dec-25	28-Dec-25
pH-F	pH Units		7.58	7.6	7.84	7.68	7.64
Cond-F	uS/cm		92.3	118.2	139.8	134.3	172.5
Temp-F	C		5.343	5.01	4.92	4.425	3.585
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	18	25	26	28	45
TSS	mg/L	2.4	<1.0	1.2	<1.0	<1.0	<1.0
Alk-T	mg/L		27	35	36	37	50
Al-T	mg/L	0.28	0.0444	0.0387	0.0342	0.0366	0.0387
As-T	mg/L	0.005	0.000152	0.000205	0.000198	0.000217	0.000300
Ba-T	mg/L		0.00176	0.00213	0.00215	0.00236	0.00334
B-T	mg/L	1.2	0.026	0.039	0.038	0.046	0.070
Bicarb	mg/L		33	42	44	45	61
Cd-T	mg/L		<0.0000050	<0.0000050	0.0000078	<0.0000050	<0.0000050
Ca-T	mg/L		9.17	12	11.2	12	15.5
Cr-T	mg/L	0.0025	0.00011	0.00011	0.00011	0.00011	0.00014
Co-T	mg/L	0.004	0.000036	0.000044	0.0000503	0.0000511	0.0000815
Cu-T	mg/L		0.00085	0.000647	0.000724	0.000738	0.000760
Hard-T	mg/L		27.6	35.7	34	36.3	46.6
Fe-T	mg/L	1	0.0966	0.127	0.108	0.13	0.219
Pb-T	mg/L		0.00003	0.000005	0.0000131	0.000005	0.0000115
Mg-T	mg/L		1.15	1.42	1.46	1.53	1.92
Mn-T	mg/L	0.86	0.0114	0.016	0.0161	0.019	0.0300
Mo-T	mg/L		0.000167	0.000179	0.000173	0.000171	0.000185
Ni-T	mg/L		0.00011	0.000088	0.000106	0.000116	0.000163
K-T	mg/L		<0.25	0.226	0.239	0.267	0.402
S-T	mg/L		5.1	8	8.3	9.8	14.2
Se-T	mg/L	0.002	0.000047	0.000054	0.000056	0.000063	0.000053
Ag-T	mg/L		<0.000010	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		7.04	11.2	10.8	13.2	20.1
Sr-T	mg/L		0.04	0.0601	0.0616	0.0667	0.0959
Zn-T	mg/L		<0.0010	0.00015	0.00038	0.00014	0.00062
Al-D	mg/L		0.0247	0.0263	0.0231	0.0214	0.0202
As-D	mg/L		0.000141	0.000174	0.000188	0.00018	0.000231
Ba-D	mg/L		0.00173	0.00215	0.00226	0.00215	0.00279
B-D	mg/L		0.028	0.041	0.038	0.04	0.060
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		9.75	12.5	12	12.3	15.1
Cr-D	mg/L		0.00011	<0.00010	0.0001	<0.00010	<0.00010
Co-D	mg/L		0.000029	0.000043	0.0000372	0.0000441	0.0000697
Cu-D	mg/L	0.001	0.00058	0.000599	0.000596	0.000612	0.000572
Hard-D	mg/L		29.4	37.2	35.9	36.2	45.0
DOC	mg/L		2.9	2.6	2.7	2.8	3.0
Fe-D	mg/L		0.0251	0.0267	0.0232	0.0264	0.0284
Pb-D	mg/L		<0.0000050	0.000011	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.23	1.45	1.43	1.35	1.75
Mn-D	mg/L		0.00985	0.0165	0.0161	0.0168	0.0275
Mo-D	mg/L		0.000215	0.000227	0.000468	0.00029	0.000206
Ni-D	mg/L	0.0017	0.000088	0.0001	0.000093	0.000093	0.000136
K-D	mg/L		0.178	0.242	0.249	0.255	0.371
S-D	mg/L		5.6	8.8	10.5	9.1	13.6
Se-D	mg/L		0.000061	0.000057	0.000048	0.00006	0.000052
Na-D	mg/L		7.28	11.9	12	10.8	17.5
Sr-D	mg/L		0.0398	0.0632	0.0611	0.0644	0.0954
Zn-D	mg/L	0.012	0.00091	0.00155	0.00247	0.00512	0.00136

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20,								
StnName		Quinsam R						
StnCode		QRDSA						
		QRTrigger2	30-Dec-25	31-Dec-25	3-Jan-26	6-Jan-26	7-Jan-26	8-Jan-26
pH-F	pH Units		7.81	6.68		6.63	6.67	7.12
Cond-F	uS/cm		201.1	233.3		182.5	199.5	203.3
Temp-F	C		4.453	5.385		4.156	4.077	4.809
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	41	46	37	37	39	37
TSS	mg/L	2.4	1.2	<1.0	<1.0	<1.0	<1.0	1.2
Alk-T	mg/L		46	49	43	43	46	44
Al-T	mg/L	0.28	0.0317	0.0243	0.026	0.0289	0.0262	0.0254
As-T	mg/L	0.005	0.000289	0.000281	0.000231	0.000239	0.000239	0.000211
Ba-T	mg/L		0.00304	0.00312	0.00268	0.00273	0.00263	0.0027
B-T	mg/L	1.2	0.067	0.073	0.055	0.053	0.059	0.063
Bicarb	mg/L		56	60	53	52	56	54
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	0.0000062	<0.0000050	<0.0000050
Ca-T	mg/L		15.5	15.6	13.8	13.8	13.2	13.2
Cr-T	mg/L	0.0025	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-T	mg/L	0.004	0.0000775	0.0000712	0.0000544	0.0000492	0.0000462	0.0000501
Cu-T	mg/L		0.000691	0.000635	0.000582	0.000597	0.000571	0.000583
Hard-T	mg/L		46.4	47	41.7	41.4	39.8	40.2
Fe-T	mg/L	1	0.17	0.14	0.118	0.109	0.107	0.111
Pb-T	mg/L		<0.0000050	<0.0000050	0.0000051	0.0000077	<0.0000050	<0.0000050
Mg-T	mg/L		1.9	1.93	1.73	1.68	1.66	1.73
Mn-T	mg/L	0.86	0.0288	0.0291	0.0204	0.0171	0.0183	0.0196
Mo-T	mg/L		0.000178	0.000169	0.000172	0.000183	0.000164	0.000191
Ni-T	mg/L		0.000148	0.000144	0.000104	0.000106	0.000114	0.000121
K-T	mg/L		0.387	0.393	0.314	0.295	0.304	0.321
S-T	mg/L		13.6	14.9	12.4	11.9	12.1	12.1
Se-T	mg/L	0.002	0.000055	0.000051	0.000061	0.000092	0.000052	0.000044
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		20.1	21.3	17.3	15.8	16.3	17.9
Sr-T	mg/L		0.0962	0.104	0.0838	0.0812	0.0834	0.0859
Zn-T	mg/L		<0.00010	<0.00010	<0.00010	0.00013	0.00075	0.00016
Al-D	mg/L		0.0199	0.02	0.019	0.023	0.0213	0.0195
As-D	mg/L		0.000235	0.000257	0.000197	0.000201	0.000211	0.000188
Ba-D	mg/L		0.00285	0.00313	0.00255	0.00268	0.00258	0.00256
B-D	mg/L		0.058	0.073	0.057	0.059	0.063	0.062
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		15	16.7	14.2	13.9	14.1	13.1
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000647	0.0000718	0.0000487	0.0000475	0.0000444	0.0000467
Cu-D	mg/L	0.001	0.000588	0.000566	0.000534	0.000506	0.000486	0.000525
Hard-D	mg/L		44.7	49.9	42.7	42.5	42.7	39.6
DOC	mg/L		2.3	2.3	2.3	2.6	2.6	2.5
Fe-D	mg/L		0.0291	0.029	0.0245	0.0309	0.0283	0.0288
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	0.000006	<0.0000050	0.0000061
Mg-D	mg/L		1.76	2.03	1.74	1.88	1.82	1.67
Mn-D	mg/L		0.026	0.0298	0.0192	0.0171	0.0181	0.0186
Mo-D	mg/L		0.000198	0.00019	0.00018	0.00017	0.000338	0.000349
Ni-D	mg/L	0.0017	0.000138	0.000164	0.000105	0.000091	0.000103	0.000118
K-D	mg/L		0.354	0.42	0.305	0.312	0.32	0.312
S-D	mg/L		12.7	16	11.7	12.2	12.8	11
Se-D	mg/L		0.000046	0.000047	0.000053	0.000073	<0.000040	0.000045
Na-D	mg/L		17.4	22.4	17.1	17.4	17.7	17.6
Sr-D	mg/L		0.0944	0.106	0.082	0.0833	0.0866	0.0835
Zn-D	mg/L	0.012	0.00106	0.00119	0.00077	0.00039	0.00132	0.00153

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20,										
StnName		Quinsam R								
StnCode		QRDSA								
		QRTrigger2	19-Jan-26	26-Jan-26	29-Jan-26	2-Feb-26	5-Feb-26	9-Feb-26	23-Feb-26	25-Feb-26
pH-F	pH Units		6.38	6.67	6.61	6.38	6.64	7.11	6.86	7.1
Cond-F	uS/cm		152.6	1780.5	243.3	118.3	136	129.5	208.6	250.6
Temp-F	C		5.803	9.267	5	5.5	6.1	7.28	4.28	5.321
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	23	53	45	20	24	26	39	50
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		33	55	53	33	38	37	41	50
Al-T	mg/L	0.28	0.0412	0.0308	0.0197	0.043	0.0362	0.0386	0.0459	0.0198
As-T	mg/L	0.005	0.000198	0.000297	0.000223	0.000184	0.00017	0.000196	0.000297	0.000296
Ba-T	mg/L		0.00204	0.00305	0.00285	0.00203	0.002	0.00202	0.00337	0.00295
B-T	mg/L	1.2	0.034	0.077	0.072	0.042	0.047	0.045	0.057	0.078
Bicarb	mg/L		40	67	65	40	46	45	50	61
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11	16.1	15.3	11.7	11	11.4	14.9	15.3
Cr-T	mg/L	0.0025	0.00011	<0.00010	<0.00010	0.00011	<0.00010	0.00011	0.0001	<0.00010
Co-T	mg/L	0.004	0.0000434	0.00012	0.000115	0.0000784	0.0000871	0.0000868	0.0000866	0.000061
Cu-T	mg/L		0.00069	0.000728	0.000539	0.000709	0.000668	0.000662	0.000592	0.000536
Hard-T	mg/L		32.9	48.2	45.5	34.6	33.1	34.3	44.8	46.9
Fe-T	mg/L	1	0.101	0.197	0.0537	0.106	0.104	0.107	0.112	0.0513
Pb-T	mg/L		0.000005	0.0000056	<0.0000050	<0.0000050	<0.0000050	0.0000051	<0.0000050	<0.0000050
Mg-T	mg/L		1.3	1.96	1.79	1.33	1.36	1.42	1.88	2.13
Mn-T	mg/L	0.86	0.017	0.0418	0.0377	0.0199	0.022	0.0188	0.0265	0.0242
Mo-T	mg/L		0.00017	0.000176	0.000248	0.000163	0.00017	0.000168	0.000115	0.000203
Ni-T	mg/L		0.000096	0.000186	0.000223	0.000147	0.000165	0.000155	0.000167	0.000169
K-T	mg/L		0.215	0.445	0.413	0.245	0.255	0.24	0.355	0.447
S-T	mg/L		6.4	15.9	16.3	8.4	8.7	7.5	13.4	17
Se-T	mg/L	0.002	0.000075	0.000059	0.000044	0.00005	0.000043	<0.000040	0.000042	0.000051
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		9.83	23.2	22.9	11.6	12.6	11	15.8	23.3
Sr-T	mg/L		0.0509	0.11	0.107	0.0549	0.0569	0.0553	0.0877	0.111
Zn-T	mg/L		0.00015	0.00014	0.00114	0.00011	0.00012	0.00019	0.00019	<0.00010
Al-D	mg/L		0.0236	0.0209	0.0308	0.0254	0.0284	0.0233	0.0293	0.0264
As-D	mg/L		0.000165	0.000269	0.000294	0.000164	0.000175	0.000162	0.000262	0.000319
Ba-D	mg/L		0.0019	0.00309	0.00314	0.00175	0.00207	0.00193	0.00332	0.00364
B-D	mg/L		0.034	0.087	0.083	0.036	0.05	0.041	0.064	0.087
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		11	16.9	17.6	11.1	12.4	11.5	15.5	16.9
Cr-D	mg/L		<0.00010	<0.00010	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	0.00132
Co-D	mg/L		0.0000348	0.000117	0.000139	0.0000682	0.0000877	0.0000881	0.0000724	0.000116
Cu-D	mg/L	0.001	0.000603	0.000555	0.000726	0.000569	0.000609	0.000603	0.000495	0.000723
Hard-D	mg/L		33	51.1	52.3	33.2	37.3	34.1	47.3	51.5
DOC	mg/L		2.6	2.4	2.8	3	2.7	3	1.6	2.6
Fe-D	mg/L		0.0207	0.0569	0.208	0.0387	0.037	0.0358	0.0365	0.0601
Pb-D	mg/L		0.000068	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.32	2.15	2.03	1.34	1.53	1.29	2.08	2.25
Mn-D	mg/L		0.0139	0.0429	0.0464	0.0167	0.0224	0.0203	0.025	0.0419
Mo-D	mg/L		0.000291	0.000226	0.000191	0.000215	0.00057	0.000339	0.000237	0.000216
Ni-D	mg/L	0.0017	0.000084	0.000194	0.00024	0.000133	0.000173	0.000163	0.000147	0.000687
K-D	mg/L		0.216	0.476	0.487	0.223	0.272	0.251	0.364	0.457
S-D	mg/L		6.8	17.5	17.2	7.5	10.2	8.8	14.3	17.5
Se-D	mg/L		0.000056	0.000059	0.000054	0.000048	0.000057	0.000057	<0.000040	<0.000040
Na-D	mg/L		9.59	26.2	25.3	11.3	13.6	11.3	16.8	24
Sr-D	mg/L		0.0504	0.121	0.112	0.0509	0.0618	0.0559	0.0924	0.121
Zn-D	mg/L	0.012	0.00112	0.00112	<0.00010	0.00074	0.00199	0.00227	0.00123	0.0007

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20,										
StnName		Quinsam R								
StnCode		QRDSA								
		QRtrigger2	2-Mar-26	4-Mar-26	9-Mar-26	11-Mar-26	16-Mar-26	18-Mar-26	23-Mar-26	25-Mar-26
pH-F	pH Units		6.89	7.25	6.7	6.94	6.77	6.87	6.71	7.44
Cond-F	uS/cm		163.5	184.4	163.9	208.5	268.3	176.2	141	183.3
Temp-F	C		5.483	5.89	7.105	5.7	6.389	6.06	7.94	6.228
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	36	39	38	43	69	51	30	39
TSS	mg/L	2.4	<1.0	<1.0	1.2	<1.0	1.2	1.2	<1.0	<1.0
Alk-T	mg/L		42	45	43	46	69	46	38	44
Al-T	mg/L	0.28	0.0323	0.0296	0.0277	0.0275	0.0299	0.0464	0.0335	0.0304
As-T	mg/L	0.005	0.000287	0.000309	0.000329	0.000336	0.00045	0.000333	0.000211	0.000207
Ba-T	mg/L		0.00291	0.00324	0.00305	0.00356	0.00467	0.00385	0.00238	0.00252
B-T	mg/L	1.2	0.059	0.062	0.051	0.07	0.121	0.075	0.05	0.054
Bicarb	mg/L		51	55	53	56	84	56	47	53
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		13.5	14.5	12.9	16.4	23.6	17.4	13.1	14.1
Cr-T	mg/L	0.0025	0.0003	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	0.00011	<0.00010
Co-T	mg/L	0.004	0.00006	0.0000834	0.0000669	0.0000854	0.000206	0.00012	0.000128	0.000132
Cu-T	mg/L		0.000608	0.000591	0.000586	0.000613	0.000646	0.000573	0.000697	0.000669
Hard-T	mg/L		41.2	43.9	39.4	49.8	70.7	53.4	39.1	42.4
Fe-T	mg/L	1	0.102	0.106	0.0908	0.115	0.233	0.156	0.0989	0.112
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000077	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.8	1.88	1.73	2.13	2.87	2.42	1.58	1.71
Mn-T	mg/L	0.86	0.0224	0.0252	0.0219	0.0267	0.0645	0.0342	0.0283	0.0298
Mo-T	mg/L		0.00018	0.000159	0.000173	0.000168	0.000175	0.00017	0.000171	0.000171
Ni-T	mg/L		0.000222	0.000158	0.000142	0.000184	0.000326	0.000211	0.0002	0.000223
K-T	mg/L		0.306	0.341	0.29	0.376	0.663	0.382	0.286	0.306
S-T	mg/L		12.1	12.2	10.6	15.6	26.1	16.3	10.9	12.4
Se-T	mg/L	0.002	0.000054	0.000046	<0.000040	0.000052	<0.000040	<0.000040	0.000054	0.000052
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		15.5	17.4	14.5	20.6	36.3	19.7	15	16.9
Sr-T	mg/L		0.0743	0.0893	0.0831	0.108	0.172	0.121	0.0701	0.0768
Zn-T	mg/L		0.00011	0.00017	0.0001	<0.00010	0.00029	0.00018	0.00019	0.00016
Al-D	mg/L		0.0248	0.0232	0.0205	0.0215	0.0209	0.0246	0.0226	0.0245
As-D	mg/L		0.000287	0.000268	0.000287	0.000289	0.000361	0.000286	0.000197	0.000206
Ba-D	mg/L		0.00305	0.00316	0.00318	0.00339	0.00443	0.00357	0.00227	0.00262
B-D	mg/L		0.054	0.064	0.06	0.065	0.119	0.066	0.056	0.062
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		13	14.5	14.6	15.4	23.6	16.4	12.7	13.8
Cr-D	mg/L		0.00136	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000591	0.0000745	0.0000688	0.0000713	0.000193	0.000102	0.000116	0.000132
Cu-D	mg/L	0.001	0.000628	0.000546	0.000482	0.000532	0.000477	0.000513	0.000566	0.000583
Hard-D	mg/L		39.5	44.1	44.1	47	71.3	50	38.2	42
DOC	mg/L		2.7	2.6	2.2	2.4	2.3	2.5	2.5	2.3
Fe-D	mg/L		0.0295	0.0257	0.0257	0.0263	0.0718	0.0523	0.0331	0.0415
Pb-D	mg/L		0.0000071	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000057	<0.0000050	<0.0000050
Mg-D	mg/L		1.69	1.92	1.86	2.1	3.03	2.18	1.57	1.86
Mn-D	mg/L		0.0204	0.0252	0.0212	0.0235	0.0619	0.0297	0.0277	0.033
Mo-D	mg/L		0.000246	0.000203	0.000251	0.000227	0.000186	0.000189	0.000274	0.000179
Ni-D	mg/L	0.0017	0.000288	0.000169	0.000134	0.000201	0.000306	0.000207	0.000194	0.000219
K-D	mg/L		0.309	0.355	0.324	0.354	0.71	0.372	0.271	0.33
S-D	mg/L		11.4	13.4	12.1	14.5	25.5	14.9	10	13.2
Se-D	mg/L		0.000042	0.000044	<0.000040	<0.000040	0.000045	<0.000040	0.000054	0.000048
Na-D	mg/L		15.1	18.4	15.6	19.2	37.9	17.4	14	17.5
Sr-D	mg/L		0.0778	0.0901	0.0905	0.101	0.175	0.112	0.0716	0.087
Zn-D	mg/L	0.012	0.00174	0.00034	0.00095	0.00068	0.0004	0.00119	0.00093	0.00072

Attachment 1
River Barrier Pillar Passive Treatment System
Table 13

Quinsam River - November 20,								
StnName		Quinsam R						
StnCode		QRDSA						
		QRtrigger2	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		34	7.84	7.10	7.68	0	0.0
Cond-F	uS/cm		34	1780.5	211.2	240.3	0	0.0
Temp-F	C		34	9.267	5.884	7.526	0	0.0
Br-D	mg/L		35	<0.010	0.0050	0.005	0	0.0
Cl-D	mg/L	150	35	<1.0	0.50	0.5	0	0.0
F-D	mg/L	1.1	35	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	218	35	69	34.1	48.4	0	0.0
TSS	mg/L	2.4	35	3.2	0.83	1.2	1	2.9
Alk-T	mg/L		35	69	40.9	50	0	0.0
Al-T	mg/L	0.28	35	0.0726	0.0357	0.0462	0	0.0
As-T	mg/L	0.005	35	0.00045	0.000241	0.000321	0	0.0
Ba-T	mg/L		35	0.00467	0.00270	0.00336	0	0.0
B-T	mg/L	1.2	35	0.121	0.053	0.074	0	0.0
Bicarb	mg/L		35	84	49.9	61	0	0.0
Cd-T	mg/L		35	0.0000078	0.00000276	2.50E-06	0	0.0
Ca-T	mg/L		35	23.6	13.45	15.9	0	0.0
Cr-T	mg/L	0.0025	35	0.0003	0.000093	0.000132	0	0.0
Co-T	mg/L	0.004	35	0.000206	0.0000720	0.00012	0	0.0
Cu-T	mg/L		35	0.00136	0.000692	0.000767	0	0.0
Hard-T	mg/L		35	70.7	40.5	47.7	0	0.0
Fe-T	mg/L	1	35	0.233	0.1207	0.1644	0	0.0
Pb-T	mg/L		35	0.0000825	0.00001037	2.32E-05	0	0.0
Mg-T	mg/L		35	2.87	1.69	2.06	0	0.0
Mn-T	mg/L	0.86	35	0.0645	0.02330	0.03252	0	0.0
Mo-T	mg/L		35	0.000253	0.000175	0.000189	0	0.0
Ni-T	mg/L		35	0.00049	0.000160	0.000223	0	0.0
K-T	mg/L		35	0.663	0.300	0.409	0	0.0
S-T	mg/L		35	26.1	11.2	16.1	0	0.0
Se-T	mg/L	0.002	35	0.000092	0.0000502	6.10E-05	0	0.0
Ag-T	mg/L		35	<0.000010	0.00000279	4.00E-06	0	0.0
Na-T	mg/L		35	36.3	15.29	22.26	0	0.0
Sr-T	mg/L		35	0.172	0.0788	0.1092	0	0.0
Zn-T	mg/L		35	0.0036	0.000367	0.000698	0	0.0
Al-D	mg/L		35	0.0308	0.0236	0.0272	0	0.0
As-D	mg/L		35	0.000361	0.000213	0.000288	0	0.0
Ba-D	mg/L		35	0.00443	0.00261	0.00336	0	0.0
B-D	mg/L		35	0.119	0.053	0.079	0	0.0
Cd-D	mg/L	0.00014	35	0.000011	0.00000274	2.50E-06	0	0.0
Ca-D	mg/L		35	23.6	13.60	16.82	0	0.0
Cr-D	mg/L		35	0.00136	0.000135	0.000116	0	0.0
Co-D	mg/L		35	0.000193	0.0000659	0.0001166	0	0.0
Cu-D	mg/L	0.001	35	0.000726	0.000576	0.000655	0	0.0
Hard-D	mg/L		35	71.3	40.9	50.7	0	0.0
DOC	mg/L		35	3	2.6	2.9	0	0.0
Fe-D	mg/L		35	0.208	0.0394	0.0551	0	0.0
Pb-D	mg/L		35	0.000034	0.00000442	6.98E-06	0	0.0
Mg-D	mg/L		35	3.03	1.70	2.13	0	0.0
Mn-D	mg/L		35	0.0619	0.02259	0.03834	0	0.0
Mo-D	mg/L		35	0.00148	0.000281	0.000345	0	0.0
Ni-D	mg/L	0.0017	35	0.000687	0.000167	0.000269	0	0.0
K-D	mg/L		35	0.71	0.310	0.442	0	0.0
S-D	mg/L		35	25.5	11.4	16.7	0	0.0
Se-D	mg/L		35	0.000073	0.0000467	5.82E-05	0	0.0
Na-D	mg/L		35	37.9	15.35	23.36	0	0.0
Sr-D	mg/L		35	0.175	0.0796	0.112	0	0.0
Zn-D	mg/L	0.012	35	0.00609	0.001329	0.002158	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 14

Quinsam River - November 20, 2025 to March 31st 2026									
StnName		Quinsam River Downstream (400m) of RPBO Discharge (QRDSB)							
StnCode		QRDSB							
		QRTrigger2 (T)	20-Nov-25	21-Nov-25	22-Nov-25	23-Nov-25	24-Nov-25	25-Nov-25	26-Nov-25
pH-F	pH Units		7.3	7.8	8.6	7.4	7.41	7.28	7.16
Cond-F	uS/cm		120.3	129.2	134.2	133	124.4	120	114.7
Temp-F	C		8.4	9.3	7.27	7.1	7.3	6.8	7.7
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
SO4-D	mg/L	218	25	28	31	27	25	25	
TSS	mg/L	2.4	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		34	34	38	34	34	36	
Al-T	mg/L	0.28	0.0328	0.0251	0.0244	0.0249	0.0263	0.0236	0.0238
As-T	mg/L	0.005	0.000341	0.000304	0.000325	0.000302	0.000277	0.000316	0.000303
Ba-T	mg/L		0.00381	0.00297	0.00297	0.00270	0.00241	0.00237	0.00251
B-T	mg/L	1.2	0.04	0.042	0.044	0.041	0.038	0.038	0.037
Bicarb	mg/L		41	42	46	42	41	44	
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		12.4	12.6	13.5	12.8	12.2	12	12.0
Cr-T	mg/L	0.0025	0.00014	0.00014	0.00013	0.00014	0.00016	0.00015	0.00014
Co-T	mg/L	0.004	0.0000397	0.0000283	0.0000244	0.0000221	0.0000204	0.0000209	0.0000204
Cu-T	mg/L		0.000668	0.000551	0.000524	0.000514	0.000511	0.000607	0.000687
Hard-T	mg/L		37.6	38.2	40.9	38.6	36.9	36.2	36.4
Fe-T	mg/L	1	0.0614	0.0606	0.0727	0.0837	0.0849	0.0976	0.0888
Pb-T	mg/L		0.0000194	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.63	1.63	1.74	1.62	1.55	1.49	1.58
Mn-T	mg/L	0.86	0.014	0.0152	0.0167	0.0153	0.0136	0.0139	0.0136
Mo-T	mg/L		0.000159	0.000166	0.000169	0.000159	0.000161	0.000169	0.000167
Ni-T	mg/L		0.000101	0.00007	0.000100	0.000059	0.000068	0.000084	0.000127
K-T	mg/L		0.249	0.245	0.259	0.240	0.219	0.229	0.234
S-T	mg/L		8	9	9.5	8.7	8.0	8.6	8.7
Se-T	mg/L	0.002	0.000051	0.00005	0.000049	0.000052	0.000050	0.000059	0.000054
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		10.2	11.4	12.4	11.5	10.7	10.3	10.7
Sr-T	mg/L		0.0629	0.0668	0.0714	0.0691	0.0617	0.0592	0.0626
Zn-T	mg/L		0.00091	0.00022	0.00030	0.00019	0.00059	0.00033	0.00022
Al-D	mg/L		0.0188	0.0187	0.0174	0.0167	0.0162	0.0185	0.0205
As-D	mg/L		0.000274	0.000279	0.000297	0.000258	0.000280	0.000274	0.000276
Ba-D	mg/L		0.00345	0.0029	0.00290	0.00262	0.00223	0.00237	0.00253
B-D	mg/L		0.036	0.04	0.043	0.042	0.039	0.042	0.038
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.2	13	13.3	13.0	11.9	12.3	12.5
Cr-D	mg/L		0.00016	0.00014	0.00016	0.00029	0.00019	0.00013	0.00014
Co-D	mg/L		0.000029	0.0000257	0.0000234	0.0000230	0.0000206	0.000019	0.0000162
Cu-D	mg/L	0.001	0.000538	0.000523	0.000577	0.000614	0.000671	0.000552	0.000548
Hard-D	mg/L		36.7	38.9	40.1	39.3	35.9	37	37.6
DOC	mg/L		2.5	2.6	2.8	2.9	2.8	2.7	2.9
Fe-D	mg/L		0.0255	0.031	0.0319	0.0307	0.0278	0.0257	0.0280
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	0.0000113	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.53	1.58	1.70	1.67	1.54	1.57	1.53
Mn-D	mg/L		0.0118	0.0139	0.0158	0.0143	0.0126	0.0116	0.0126
Mo-D	mg/L		0.000179	0.000177	0.000179	0.000187	0.000255	0.000202	0.000180
Ni-D	mg/L	0.0017	0.000072	0.000064	0.000070	0.000054	0.000071	0.000067	0.000076
K-D	mg/L		0.241	0.245	0.256	0.248	0.238	0.223	0.224
S-D	mg/L		7.8	8.8	7.9	11.1	11.4	8.3	9.4
Se-D	mg/L		0.000051	0.00005	0.000061	0.000054	0.000052	0.00005	0.000051
Na-D	mg/L		9.5	11.1	12.5	11.8	10.6	10.3	10.7
Sr-D	mg/L		0.06	0.0667	0.0682	0.0644	0.0605	0.0625	0.0670
Zn-D	mg/L	0.012	0.00052	0.00049	0.00065	0.00043	0.00216	0.00282	0.00072

Table 14

Quinsam River - November 20, 2025 to March 20, 2026										
StnName StnCode		Quinsam River Downstr QRDSB								
		QRTrigger2 (T)	27-Nov-25	2-Dec-25	5-Dec-25	6-Dec-25	7-Dec-25	8-Dec-25	9-Dec-25	10-Dec-25
pH-F	pH Units		7.22	6.95	7.83	7.75	7.88	7.15	7.21	7.5
Cond-F	uS/cm		121.6	110	118	113	113	122	102.6	115.2
Temp-F	C		8.2	6.8	6.1	5.7	5.9	7.2	5.7	8.7
Br-D	mg/L		<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	24	21		19	20	24	21	21
TSS	mg/L	2.4	<1.0	<1.0		<1.0	<1.0	<1.0	1.2	<1.0
Alk-T	mg/L		36	32		31	31	34	32	31
Al-T	mg/L	0.28	0.0212	0.0224	0.0246	0.0239	0.0375	0.0281	0.0307	0.0334
As-T	mg/L	0.005	0.000323	0.000365	0.000386	0.00037	0.000435	0.000419	0.000314	0.000305
Ba-T	mg/L		0.00256	0.00261	0.00272	0.00262	0.00262	0.0027	0.00249	0.00238
B-T	mg/L	1.2	0.033	0.036	0.036	0.031	0.028	0.035	0.033	0.033
Bicarb	mg/L		44	39		38	37	41	39	38
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11.5	11.2	11.1	10.8	10.4	11.8	12.1	11
Cr-T	mg/L	0.0025	0.00015	0.00015	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	<0.00010
Co-T	mg/L	0.004	0.0000226	0.0000217	0.0000261	0.0000255	0.0000331	0.0000316	0.0000303	0.0000304
Cu-T	mg/L		0.000597	0.000568	0.000619	0.000591	0.000648	0.000607	0.000613	0.00061
Hard-T	mg/L		34.6	34.2	33.9	33	31.4	35.6	36.4	33.8
Fe-T	mg/L	1	0.108	0.0582	0.0644	0.0577	0.112	0.134	0.091	0.081
Pb-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000075	<0.0000050	<0.0000050	0.0000067
Mg-T	mg/L		1.44	1.49	1.52	1.46	1.33	1.5	1.53	1.52
Mn-T	mg/L	0.86	0.0128	0.00928	0.0101	0.00907	0.0123	0.016	0.0133	0.0107
Mo-T	mg/L		0.000167	0.000174	0.000176	0.000165	0.000159	0.000179	0.000165	0.000165
Ni-T	mg/L		0.000082	0.000078	0.000076	0.000082	0.000094	0.000087	0.00009	0.000092
K-T	mg/L		0.209	0.202	0.207	0.201	0.202	0.23	0.193	0.193
S-T	mg/L		7.8	6.9	6.9	6.7	6.3	7.8	6.6	7.1
Se-T	mg/L	0.002	0.000059	0.000046	0.000051	0.000055	0.000049	0.000055	0.000046	0.000051
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		9.49	8.52	8.97	7.64	7.52	9.49	8.14	7.96
Sr-T	mg/L		0.0613	0.0565	0.0529	0.0496	0.0489	0.0615	0.0531	0.0535
Zn-T	mg/L		0.00029	0.00029	0.00011	<0.00010	0.00053	0.0001	<0.00010	0.00014
Al-D	mg/L		0.0165	0.0176	0.0188	0.0178	0.0185	0.0178	0.0216	0.0183
As-D	mg/L		0.000274	0.000344	0.00034	0.000347	0.000331	0.000318	0.000306	0.000236
Ba-D	mg/L		0.00257	0.0026	0.00265	0.00255	0.00247	0.00261	0.00241	0.00218
B-D	mg/L		0.034	0.04	0.035	0.029	0.028	0.034	0.033	0.029
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000128	<0.0000050
Ca-D	mg/L		12.2	11.6	11.2	10.8	10.9	11	11.5	10.9
Cr-D	mg/L		0.00015	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	0.00015	<0.00010
Co-D	mg/L		0.0000167	0.0000201	0.0000207	0.0000199	0.000021	0.0000273	0.0000396	0.0000225
Cu-D	mg/L	0.001	0.000546	0.000489	0.000595	0.000577	0.000588	0.000597	0.000662	0.000417
Hard-D	mg/L		36.4	35.1	34.1	32.6	32.7	33.5	34.8	32.8
DOC	mg/L		3.7	2.6		2.5	2.6	2.5	2.7	2.7
Fe-D	mg/L		0.0288	0.0276	0.0284	0.03	0.0303	0.0344	0.0359	0.0329
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.47	1.49	1.36	1.33	1.36	1.46	1.49	1.37
Mn-D	mg/L		0.0118	0.00797	0.0082	0.00744	0.00873	0.0131	0.0102	0.00806
Mo-D	mg/L		0.000179	0.000209	0.000178	0.000183	0.000187	0.000245	0.000225	0.000188
Ni-D	mg/L	0.0017	0.000065	0.000067	0.000092	0.000076	0.000078	0.000081	0.000114	0.00007
K-D	mg/L		0.214	0.206	0.203	0.198	0.204	0.229	0.193	0.18
S-D	mg/L		8.1	7	7.2	6.4	6.6	7.7	6.7	6.3
Se-D	mg/L		0.000059	0.000056	0.000049	0.000055	0.000048	0.000053	0.000068	0.000049
Na-D	mg/L		9.7	8.67	9.06	7.41	7.76	9.38	8.2	7.31
Sr-D	mg/L		0.0644	0.0556	0.0519	0.0503	0.0493	0.0591	0.0507	0.0534
Zn-D	mg/L	0.012	0.00124	0.00163	0.00054	0.00115	0.00116	0.002	0.0012	0.00074

Attachment 1
River Barrier Pillar Passive Treatment System
Table 14

Quinsam River - November 20, 2025 to March 2026							
StnName		Quinsam River Downstr					
StnCode		QRDSB					
		QRTrigger2 (T)	11-Dec-25	12-Dec-25	14-Dec-25	15-Dec-25	17-Dec-25
pH-F	pH Units		7.83	7.05	7.26	7.04	7.38
Cond-F	uS/cm		1081	92.6	93.8	103	75.9
Temp-F	C		7.1	6.6	8.4	7.8	6.7
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	18	17	16	19	11
TSS	mg/L	2.4	1.2	<1.0	2	2	1.6
Alk-T	mg/L		29	29	29	31	24
Al-T	mg/L	0.28	0.0348	0.0421	0.0439	0.0496	0.0278
As-T	mg/L	0.005	0.000222	0.000249	0.000261	0.000269	0.000196
Ba-T	mg/L		0.0021	0.00205	0.00225	0.00236	0.0013
B-T	mg/L	1.2	0.022	0.031	0.029	0.028	0.02
Bicarb	mg/L		35	35	35	37	30
Cd-T	mg/L		0.000005	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.84	10.1	11	11	7.7
Cr-T	mg/L	0.0025	0.0001	0.00011	0.00012	0.00011	0.0001
Co-T	mg/L	0.004	0.0000367	0.0000355	0.000037	0.0000354	0.000022
Cu-T	mg/L		0.000616	0.000631	0.00091	0.000676	0.00077
Hard-T	mg/L		29.6	30.6	33.1	33.3	23.1
Fe-T	mg/L	1	0.0815	0.0705	0.0943	0.108	0.0378
Pb-T	mg/L		0.0000088	0.0000128	<0.000020	0.0000063	<0.000020
Mg-T	mg/L		1.23	1.31	1.38	1.41	0.94
Mn-T	mg/L	0.86	0.00949	0.00809	0.00985	0.0111	0.00268
Mo-T	mg/L		0.00017	0.000177	0.000217	0.000169	0.000248
Ni-T	mg/L		0.000084	0.000087	0.00011	0.000105	<0.00010
K-T	mg/L		0.16	0.170	<0.25	0.181	<0.25
S-T	mg/L		5.2	5.4	6	6	3.5
Se-T	mg/L	0.002	0.000057	0.000049	0.000066	0.000048	0.000071
Ag-T	mg/L		<0.0000050	<0.0000050	<0.000010	<0.0000050	<0.000010
Na-T	mg/L		6.43	6.97	7.67	7.5	4.18
Sr-T	mg/L		0.0411	0.0432	0.0466	0.0461	0.0292
Zn-T	mg/L		0.00012	<0.00010	<0.0010	0.00013	<0.0010
Al-D	mg/L		0.0228	0.0252	0.0241	0.0234	0.0265
As-D	mg/L		0.000199	0.000219	0.000203	0.00019	0.000164
Ba-D	mg/L		0.002	0.00192	0.00187	0.00212	0.00162
B-D	mg/L		0.028	0.029	0.027	0.029	0.02
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.4	10.3	9.59	10.4	8.75
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000196	0.0000237	0.0000203	0.0000202	0.000024
Cu-D	mg/L	0.001	0.00056	0.000598	0.000564	0.000565	0.0032
Hard-D	mg/L		31.3	30.9	28.9	31.4	26.1
DOC	mg/L		2.7	2.8	2.7	2.7	2.9
Fe-D	mg/L		0.0359	0.0343	0.0277	0.0311	0.0243
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.3	1.25	1.2	1.33	1.03
Mn-D	mg/L		0.00647	0.00581	0.00663	0.00583	0.00433
Mo-D	mg/L		0.000262	0.000214	0.000237	0.000228	0.000271
Ni-D	mg/L	0.0017	0.000072	0.000075	0.000069	0.000093	0.000065
K-D	mg/L		0.16	0.167	0.163	0.175	0.132
S-D	mg/L		5.2	5.5	4.8	5.7	3.4
Se-D	mg/L		0.000049	0.000048	0.00005	0.000048	0.000062
Na-D	mg/L		6.91	6.94	6.69	7	4.27
Sr-D	mg/L		0.0443	0.0421	0.0407	0.0457	0.0325
Zn-D	mg/L	0.012	0.00079	0.00096	0.00118	0.00088	0.00116

Table 14

Quinsam River - November 20, 2025 to Ma						
StnName		Quinsam River Downstr				
StnCode		QRDSB				
QRTrigger2 (T)			18-Dec-25	19-Dec-25	22-Dec-25	23-Dec-25
pH-F	pH Units		7.79	6.97	7.33	7.21
Cond-F	uS/cm		75.4	78.7	89.6	96.2
Temp-F	C		6.2	6.8	5.3	5
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	11	11	15	16
TSS	mg/L	2.4	<1.0	1.6	<1.0	1.6
Alk-T	mg/L		26	26	29	31
Al-T	mg/L	0.28	0.0615	0.0509	0.0397	0.0366
As-T	mg/L	0.005	0.000167	0.000199	0.000244	0.000247
Ba-T	mg/L		0.00189	0.00172	0.00186	0.00191
B-T	mg/L	1.2	0.019	0.02	0.028	0.028
Bicarb	mg/L		32	32	35	38
Cd-T	mg/L		<0.0000050	0.000005	<0.0000050	0.000008
Ca-T	mg/L		9.03	8.31	10.1	10.1
Cr-T	mg/L	0.0025	0.00013	0.00013	0.0001	0.00013
Co-T	mg/L	0.004	0.000045	0.000041	0.000033	0.0000417
Cu-T	mg/L		0.000751	0.00085	0.000645	0.000711
Hard-T	mg/L		27.2	25.3	30.2	30.4
Fe-T	mg/L	1	0.0874	0.0706	0.0676	0.0702
Pb-T	mg/L		0.00001	<0.000020	0.000007	0.000013
Mg-T	mg/L		1.13	1.11	1.25	1.22
Mn-T	mg/L	0.86	0.00788	0.00648	0.00825	0.0088
Mo-T	mg/L		0.000178	0.000176	0.000164	0.000178
Ni-T	mg/L		0.000115	0.00012	0.000074	0.000091
K-T	mg/L		0.141	<0.25	0.16	0.17
S-T	mg/L		3.4	3.4	4.7	5
Se-T	mg/L	0.002	0.000056	0.000052	0.000054	0.000057
Ag-T	mg/L		<0.0000050	<0.000010	<0.0000050	<0.0000050
Na-T	mg/L		4.41	4.48	6.46	6.56
Sr-T	mg/L		0.0332	0.0306	0.0388	0.0405
Zn-T	mg/L		0.00014	0.0023	0.00014	0.00027
Al-D	mg/L		0.0253	0.0262	0.0244	0.0221
As-D	mg/L		0.000123	0.000162	0.000208	0.000236
Ba-D	mg/L		0.00153	0.0015	0.00179	0.00189
B-D	mg/L		0.016	0.021	0.027	0.027
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		8.18	8.63	9.58	10.3
Cr-D	mg/L		<0.00010	<0.00010	0.0001	<0.00010
Co-D	mg/L		0.000021	0.000023	0.000024	0.0000256
Cu-D	mg/L	0.001	0.000614	0.000607	0.000594	0.000618
Hard-D	mg/L		24.8	25.7	28.9	30.8
DOC	mg/L		2.9	2.8	2.6	2.7
Fe-D	mg/L		0.0217	0.0222	0.0204	0.0209
Pb-D	mg/L		<0.0000050	<0.0000050	0.000005	<0.0000050
Mg-D	mg/L		1.05	1	1.2	1.22
Mn-D	mg/L		0.00414	0.00422	0.00634	0.00745
Mo-D	mg/L		0.000376	0.000183	0.000256	0.000198
Ni-D	mg/L	0.0017	0.000066	0.000062	0.000068	0.000091
K-D	mg/L		0.134	0.136	0.158	0.167
S-D	mg/L		3.5	3.4	5	6.4
Se-D	mg/L		0.000051	0.000055	0.000056	0.000057
Na-D	mg/L		4.08	4.17	6.32	7.45
Sr-D	mg/L		0.0298	0.0293	0.0375	0.0452
Zn-D	mg/L	0.012	0.00108	0.00034	0.00074	0.00099

Attachment 1
River Barrier Pillar Passive Treatment System
Table 14

Quinsam River - November 20, 2025 to May 20, 2026								
StnName		Quinsam River Downstr						
StnCode		QRDSB						

Table 14

Quinsam River - November 20, 2025 to March 20, 2026										
StnName StnCode		Quinsam River Downstr QRDSB								
		QRTrigger2 (T)	7-Jan-26	8-Jan-26	26-Jan-26	29-Jan-26	2-Feb-26	5-Feb-26	9-Feb-26	2-Mar-26
pH-F	pH Units		7.33	8.07	7.95	6.29	7.51	7.81	6.6	7.44
Cond-F	uS/cm		136.7	144	156.5	135.7	84.6	93.6	94.5	140
Temp-F	C		5.2	4	4.5	9.1	6	6.2	5.6	4.7
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	27	27	34	29	12	12	15	25
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		38	37	41	40	25	27	30	32
Al-T	mg/L	0.28	0.0282	0.0287	0.0341	0.0204	0.0453	0.0381	0.0377	0.0354
As-T	mg/L	0.005	0.000331	0.000303	0.000422	0.000319	0.000209	0.00019	0.000247	0.000605
Ba-T	mg/L		0.00237	0.00235	0.00272	0.00239	0.00175	0.00158	0.00174	0.0027
B-T	mg/L	1.2	0.046	0.049	0.055	0.048	0.025	0.027	0.033	0.043
Bicarb	mg/L		46	45	50	49	31	34	37	39
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11.3	11.2	13	12.1	9.52	8.62	9.63	11.3
Cr-T	mg/L	0.0025	<0.00010	<0.00010	<0.00010	0.0001	0.00013	0.0001	<0.00010	0.00082
Co-T	mg/L	0.004	0.0000315	0.0000376	0.0000772	0.0000662	0.0000433	0.0000483	0.0000558	0.0000424
Cu-T	mg/L		0.000568	0.000589	0.000678	0.000554	0.000693	0.000622	0.000648	0.000742
Hard-T	mg/L		34.1	34.4	39.2	36.3	28.3	25.8	29.1	34.2
Fe-T	mg/L	1	0.072	0.0777	0.142	0.0354	0.0657	0.0581	0.0716	0.0983
Pb-T	mg/L		<0.0000050	<0.0000050	0.0000064	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.46	1.55	1.65	1.44	1.11	1.05	1.23	1.47
Mn-T	mg/L	0.86	0.01	0.0111	0.0254	0.0206	0.00883	0.0095	0.0112	0.0121
Mo-T	mg/L		0.000186	0.000177	0.000164	0.000205	0.000159	0.000182	0.00017	0.000181
Ni-T	mg/L		0.000069	0.0001	0.000142	0.000132	0.000116	0.000096	0.00012	0.000394
K-T	mg/L		0.233	0.243	0.323	0.276	0.154	0.148	0.174	0.225
S-T	mg/L		8.4	8.3	10.3	9.5	4.8	4.3	5.1	8.1
Se-T	mg/L	0.002	0.000042	0.000046	0.000065	0.000046	0.00006	0.00005	<0.000040	0.000044
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		11.8	12.9	15.5	13.9	5.83	5.78	7.13	9.96
Sr-T	mg/L		0.0614	0.0646	0.0716	0.0658	0.0355	0.0331	0.0401	0.0554
Zn-T	mg/L		0.00011	0.00011	0.00014	0.00064	0.00021	0.00019	<0.00010	<0.00010
Al-D	mg/L		0.0216	0.0195	0.0215	0.0283	0.0272	0.0281	0.023	0.0241
As-D	mg/L		0.000298	0.000274	0.000365	0.000387	0.0002	0.000192	0.000196	0.000397
Ba-D	mg/L		0.00228	0.00228	0.0026	0.0025	0.00159	0.00166	0.00165	0.00261
B-D	mg/L		0.047	0.048	0.059	0.052	0.023	0.028	0.026	0.04
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.5	11.2	13.3	12.8	9.48	9.65	9.42	11
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	0.00012	0.00013	0.00011	<0.00010	0.00077
Co-D	mg/L		0.0000277	0.000031	0.0000679	0.0000738	0.0000332	0.0000418	0.0000461	0.0000406
Cu-D	mg/L	0.001	0.000512	0.000524	0.000566	0.000652	0.000639	0.000608	0.000601	0.000704
Hard-D	mg/L		37.7	34	40.3	38.3	28.4	29	27.9	33.4
DOC	mg/L		2.6	2.5	2.2	2.8	3.1	2.7	3.1	2.6
Fe-D	mg/L		0.0291	0.0277	0.041	0.111	0.0281	0.0256	0.025	0.0309
Pb-D	mg/L		0.0000085	<0.0000050	<0.0000050	<0.0000050	0.0000063	0.0000069	<0.0000050	<0.0000050
Mg-D	mg/L		1.57	1.46	1.69	1.52	1.15	1.2	1.07	1.43
Mn-D	mg/L		0.00886	0.00951	0.0232	0.0239	0.007	0.00903	0.0102	0.0112
Mo-D	mg/L		0.000281	0.00047	0.000253	0.000164	0.000429	0.000357	0.000518	0.000279
Ni-D	mg/L	0.0017	0.000068	0.000094	0.000114	0.000137	0.00011	0.000105	0.000113	0.000362
K-D	mg/L		0.24	0.229	0.315	0.307	0.147	0.161	0.166	0.231
S-D	mg/L		9.4	7.9	10.6	9.9	4.5	4.7	5.1	7.9
Se-D	mg/L		0.000051	0.000053	0.000056	0.000048	0.000047	0.000074	0.000049	0.000053
Na-D	mg/L		12.4	12.3	15.9	14	5.89	6.35	6.52	9.53
Sr-D	mg/L		0.0605	0.062	0.0759	0.063	0.0332	0.0358	0.0373	0.0574
Zn-D	mg/L	0.012	0.00105	0.00107	0.0009	<0.00010	0.00307	0.0021	0.00369	0.00107

Attachment 1
River Barrier Pillar Passive Treatment System
Table 14

Quinsam River - November 20, 2025 to March 2026										
StnName		Quinsam River Downstr								
StnCode		QRDSB								

Attachment 1
River Barrier Pillar Passive Treatment System
Table 14

Quinsam River - November 20, 2025 to M2								
StnName		Quinsam River Downstr						
StnCode		QRDSB						
		QRTrigger2 (T)	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		45	8.6	7.40	7.86	0	0.0
Cond-F	uS/cm		45	1081	139.5	151.8	0	0.0
Temp-F	C		45	9.3	6.25	8.32	0	0.0
Br-D	mg/L		44	<0.010	0.0050	0.005	0	0.0
Cl-D	mg/L	150	44	<1.0	0.50	0.5	0	0.0
F-D	mg/L	1.1	44	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	218	44	41	22.8	29.7	0	0.0
TSS	mg/L	2.4	45	2	0.70	1.6	0	0.0
Alk-T	mg/L		44	48	33.3	38	0	0.0
Al-T	mg/L	0.28	46	0.0615	0.0327	0.043	0	0.0
As-T	mg/L	0.005	46	0.000605	0.000334	0.000435	0	0.0
Ba-T	mg/L		46	0.00381	0.00245	0.00297	0	0.0
B-T	mg/L	1.2	46	0.068	0.037	0.048	0	0.0
Bicarb	mg/L		44	58	40.5	46	0	0.0
Cd-T	mg/L		46	0.000008	0.00000273	2.50E-06	0	0.0
Ca-T	mg/L		46	15.8	11.31	12.9	0	0.0
Cr-T	mg/L	0.0025	46	0.00082	0.000122	0.00015	0	0.0
Co-T	mg/L	0.004	46	0.000103	0.0000416	6.71E-05	0	0.0
Cu-T	mg/L		46	0.00091	0.000643	0.000733	0	0.0
Hard-T	mg/L		46	47.5	34.2	38.9	0	0.0
Fe-T	mg/L	1	46	0.142	0.0823	0.11	0	0.0
Pb-T	mg/L		46	0.0000194	0.00000552	1.00E-05	0	0.0
Mg-T	mg/L		46	1.96	1.45	1.64	0	0.0
Mn-T	mg/L	0.86	46	0.0301	0.01281	0.018	0	0.0
Mo-T	mg/L		46	0.000248	0.000175	0.000185	0	0.0
Ni-T	mg/L		46	0.000394	0.000115	0.000162	0	0.0
K-T	mg/L		46	0.341	0.209	0.259	0	0.0
S-T	mg/L		46	13.5	7.3	9.5	0	0.0
Se-T	mg/L	0.002	46	0.000162	0.0000548	6.55E-05	0	0.0
Ag-T	mg/L		46	<0.000010	0.00000283	5.00E-06	0	0.0
Na-T	mg/L		46	17.6	9.58	12.85	0	0.0
Sr-T	mg/L		46	0.0991	0.0558	0.069	0	0.0
Zn-T	mg/L		46	0.0023	0.000307	0.00056	0	0.0
Al-D	mg/L		46	0.0283	0.0215	0.0258	0	0.0
As-D	mg/L		46	0.000461	0.000286	0.000392	0	0.0
Ba-D	mg/L		46	0.00345	0.00235	0.0029	0	0.0
B-D	mg/L		46	0.068	0.037	0.05	0	0.0
Cd-D	mg/L	0.00014	46	0.0000128	0.00000272	2.50E-06	0	0.0
Ca-D	mg/L		46	17.5	11.42	13	0	0.0
Cr-D	mg/L		46	0.00077	0.000109	0.00016	0	0.0
Co-D	mg/L		46	0.0000894	0.0000344	6.30E-05	0	0.0
Cu-D	mg/L	0.001	46	0.0032	0.000630	0.000646	1	2.2
Hard-D	mg/L		46	52.5	34.4	39.5	0	0.0
DOC	mg/L		45	3.7	2.592	2.9	0	0.0
Fe-D	mg/L		46	0.111	0.0305	0.0359	0	0.0
Pb-D	mg/L		46	0.0000113	0.00000323	5.65E-06	0	0.0
Mg-D	mg/L		46	2.16	1.43	1.68	0	0.0
Mn-D	mg/L		46	0.0293	0.01119	0.01675	0	0.0
Mo-D	mg/L		46	0.000518	0.000244	0.000343	0	0.0
Ni-D	mg/L	0.0017	46	0.000362	0.000099	0.000142	0	0.0
K-D	mg/L		46	0.384	0.214	0.264	0	0.0
S-D	mg/L		46	14	7.5	10.2	0	0.0
Se-D	mg/L		46	0.000074	0.0000523	6.00E-05	0	0.0
Na-D	mg/L		46	20.1	9.51	12.5	0	0.0
Sr-D	mg/L		46	0.102	0.0557	0.0694	0	0.0
Zn-D	mg/L	0.012	46	0.00369	0.001108	0.00205	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20, 2025 to March 31st 2026								
EMS ID	E286930							
StnName	Quinsam River Downstream (1250m) of RPBO Discharge (QRDS1)							
StnCode	QRDS1							
		QRTrigger2	20-Nov-25	21-Nov-25	22-Nov-25	23-Nov-25	24-Nov-25	25-Nov-25
pH-F	pH Units		7.08	7.36	8.5	7.34	7.51	7.12
Cond-F	uS/cm		119.1	129.9	133.3	128.2	119.9	123.5
Temp-F	C		8.5	9	7.33	7.7	7.7	7.5
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	25	29	46	28	25	26
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		35	36	56	35	34	36
Al-T	mg/L	0.28	0.0326	0.0241	0.0255	0.0266	0.0244	0.0261
As-T	mg/L	0.005	0.000449	0.000448	0.000501	0.000453	0.00042	0.00051
Ba-T	mg/L		0.0037	0.0032	0.00322	0.00293	0.00261	0.00278
B-T	mg/L	1.2	0.038	0.045	0.045	0.044	0.04	0.043
Bicarb	mg/L		42	43	69	43	42	43
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		12.4	12.8	13.2	13.1	12.4	12.3
Cr-T	mg/L	0.0025	0.00015	0.00014	0.00014	0.00015	0.00014	0.00016
Co-T	mg/L	0.004	0.000076	0.0000304	0.0000246	0.0000247	0.0000207	0.0000216
Cu-T	mg/L		0.000591	0.000534	0.000505	0.000528	0.000516	0.000634
Hard-T	mg/L		37.4	39	40.3	39.7	37.5	37.1
Fe-T	mg/L	1	0.061	0.0661	0.0747	0.0869	0.0795	0.102
Pb-T	mg/L		0.0000108	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000021
Mg-T	mg/L		1.59	1.69	1.75	1.71	1.57	1.55
Mn-T	mg/L	0.86	0.0129	0.0146	0.0159	0.0151	0.0129	0.0136
Mo-T	mg/L		0.000163	0.000163	0.000167	0.000162	0.000164	0.000197
Ni-T	mg/L		0.000087	0.000069	0.000081	0.000071	0.000069	0.000097
K-T	mg/L		0.252	0.254	0.272	0.257	0.234	0.246
S-T	mg/L		8.2	9.5	9.9	9.3	8.1	8.6
Se-T	mg/L	0.002	0.000052	0.000049	0.00005	0.000048	0.000048	0.000055
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		9.72	12	12.5	12.3	10.8	10.8
Sr-T	mg/L		0.0616	0.0693	0.0738	0.0713	0.0647	0.0669
Zn-T	mg/L		0.0003	0.00021	0.00027	0.00021	0.00019	0.00048
Al-D	mg/L		0.0198	0.0202	0.0197	0.0188	0.0184	0.0188
As-D	mg/L		0.000413	0.000431	0.000464	0.00044	0.000402	0.000412
Ba-D	mg/L		0.0035	0.00322	0.00324	0.00298	0.00266	0.00261
B-D	mg/L		0.038	0.043	0.044	0.041	0.038	0.042
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.1	12.9	12.3	12	11.5	12.5
Cr-D	mg/L		0.00015	0.00015	0.00015	0.00016	0.00012	0.00014
Co-D	mg/L		0.0000308	0.0000262	0.0000254	0.0000225	0.0000187	0.000018
Cu-D	mg/L	0.001	0.000612	0.000534	0.00056	0.000559	0.000557	0.000609
Hard-D	mg/L		36.8	38.8	37.5	36.6	35.2	37.7
DOC	mg/L		2.8	2.9	3.1	2.8	2.8	2.6
Fe-D	mg/L		0.0321	0.0386	0.041	0.0355	0.0348	0.0311
Pb-D	mg/L		0.0000051	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.61	1.63	1.68	1.54	1.54	1.58
Mn-D	mg/L		0.0107	0.0136	0.0145	0.0129	0.0114	0.0116
Mo-D	mg/L		0.000216	0.000194	0.000213	0.000198	0.000201	0.000186
Ni-D	mg/L	0.0017	0.000077	0.000069	0.000072	0.000072	0.000077	0.000074
K-D	mg/L		0.247	0.26	0.268	0.242	0.229	0.238
S-D	mg/L		8	8.9	9.6	8.9	8.1	8.7
Se-D	mg/L		0.000048	0.000048	0.000051	0.000054	0.000048	0.00005
Na-D	mg/L		9.74	11.4	12.3	11.2	10.3	10.9
Sr-D	mg/L		0.0607	0.0698	0.0754	0.0697	0.0629	0.0676
Zn-D	mg/L	0.012	0.00124	0.00086	0.001	0.00114	0.00089	0.00193

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,								
EMS ID		E286930						
StnName		Quinsam R						
StnCode		QRDS1						
QRTrigger2			26-Nov-25	27-Nov-25	2-Dec-25	5-Dec-25	6-Dec-25	7-Dec-25
pH-F	pH Units		6.98	7.15	6.72	7.7	7.72	7.85
Cond-F	uS/cm		128.3	114.9	122.8	126.5	116	117.2
Temp-F	C		7.4	7.4	6.7	6.2	5.7	5.9
Br-D	mg/L		<0.010	<0.010	<0.010		<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0		<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050		<0.050	<0.050
SO4-D	mg/L	218	28	23	24		21	20
TSS	mg/L	2.4	<1.0	<1.0	<1.0		<1.0	<1.0
Alk-T	mg/L		37	34	33		32	31
Al-T	mg/L	0.28	0.0245	0.0264	0.021	0.0267	0.034	0.0313
As-T	mg/L	0.005	0.000434	0.000531	0.00057	0.0006	0.000591	0.000575
Ba-T	mg/L		0.00282	0.00292	0.00301	0.0032	0.00296	0.00294
B-T	mg/L	1.2	0.04	0.038	0.041	0.04	0.03	0.031
Bicarb	mg/L		45	41	40		40	38
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		12	11.7	11.8	12	10.7	10.9
Cr-T	mg/L	0.0025	0.00014	0.00018	0.00013	<0.00010	0.00011	0.00011
Co-T	mg/L	0.004	0.0000236	0.0000274	0.0000245	0.000027	0.0000349	0.0000304
Cu-T	mg/L		0.000563	0.000638	0.00054	0.000656	0.000624	0.000613
Hard-T	mg/L		37	35.9	35.9	37	32.9	33.3
Fe-T	mg/L	1	0.0878	0.165	0.0664	0.0763	0.0846	0.0906
Pb-T	mg/L		<0.0000050	0.0000068	<0.0000050	<0.0000050	<0.0000050	0.0000054
Mg-T	mg/L		1.68	1.62	1.58	1.73	1.52	1.46
Mn-T	mg/L	0.86	0.0132	0.0115	0.0105	0.0108	0.0112	0.011
Mo-T	mg/L		0.000163	0.000165	0.000168	0.000173	0.000183	0.000156
Ni-T	mg/L		0.000109	0.000133	0.000076	0.00009	0.000089	0.000081
K-T	mg/L		0.247	0.226	0.222	0.233	0.213	0.222
S-T	mg/L		9.2	7.7	7.7	7.7	6.4	7
Se-T	mg/L	0.002	0.000051	0.000051	0.00005	0.000054	0.000046	0.000048
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		11.2	9.85	9.51	10.1	7.86	8.36
Sr-T	mg/L		0.0681	0.0619	0.0638	0.0604	0.0528	0.0556
Zn-T	mg/L		0.00026	0.00043	0.00024	0.00012	0.00046	0.00021
Al-D	mg/L		0.0184	0.0154	0.0179	0.0206	0.0256	0.0204
As-D	mg/L		0.000434	0.000412	0.000564	0.000541	0.0005	0.000484
Ba-D	mg/L		0.00285	0.00261	0.00301	0.00302	0.00291	0.00281
B-D	mg/L		0.04	0.032	0.045	0.04	0.03	0.03
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.7	11.7	12.1	11.5	10.3	10.7
Cr-D	mg/L		<0.00010	0.00015	0.00014	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000195	0.0000216	0.0000205	0.0000225	0.0000268	0.000024
Cu-D	mg/L	0.001	0.000579	0.000550	0.000484	0.000624	0.000611	0.00057
Hard-D	mg/L		38.3	35.0	36.8	35.6	32	32.4
DOC	mg/L		2.7	2.6	2.6		3	2.7
Fe-D	mg/L		0.0347	0.0345	0.0404	0.0457	0.0502	0.041
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.57	1.40	1.58	1.64	1.5	1.39
Mn-D	mg/L		0.0128	0.00986	0.00953	0.00962	0.0087	0.00888
Mo-D	mg/L		0.000192	0.000168	0.000189	0.000167	0.000187	0.000184
Ni-D	mg/L	0.0017	0.000095	0.000065	0.000063	0.000067	0.000075	0.000071
K-D	mg/L		0.243	0.195	0.235	0.231	0.206	0.214
S-D	mg/L		9.1	7.2	8	7.9	6.7	6.5
Se-D	mg/L		0.000045	0.000063	0.000047	0.000048	0.000042	0.000045
Na-D	mg/L		11.1	8.81	9.81	10.4	7.77	7.8
Sr-D	mg/L		0.0704	0.0585	0.0636	0.0587	0.0537	0.056
Zn-D	mg/L	0.012	0.00058	0.00078	0.00084	0.00043	0.00048	0.00138

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,								
EMS ID		E286930						
StnName		Quinsam R						
StnCode		QRDS1						
QRTrigger2			8-Dec-25	9-Dec-25	10-Dec-25	11-Dec-25	12-Dec-25	14-Dec-25
pH-F	pH Units		7.09	7.81	6.87	7.9	6.53	6.83
Cond-F	uS/cm		122.3	153.8	108.9	106.9	101.2	107.1
Temp-F	C		7.5	7.4	8.2	7.3	7.4	9
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	25	21	20	18	17	16
TSS	mg/L	2.4	<1.0	1.2	<1.0	2	<1.0	3.2
Alk-T	mg/L		34	31	31	27	29	28
Al-T	mg/L	0.28	0.0283	0.0322	0.0343	0.0376	0.0400	0.0433
As-T	mg/L	0.005	0.000548	0.000465	0.000403	0.000293	0.000316	0.000356
Ba-T	mg/L		0.003	0.00266	0.00247	0.00226	0.00215	0.00256
B-T	mg/L	1.2	0.035	0.035	0.034	0.022	0.031	0.029
Bicarb	mg/L		41	38	38	33	36	35
Cd-T	mg/L		0.000023	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11.8	11.3	11	10.2	10.1	11.6
Cr-T	mg/L	0.0025	0.00011	<0.00010	<0.00010	0.0001	0.00010	0.00017
Co-T	mg/L	0.004	0.0000524	0.000031	0.0000298	0.0000344	0.0000312	0.000038
Cu-T	mg/L		0.000653	0.000611	0.00059	0.000616	0.000635	0.00173
Hard-T	mg/L		35.6	34.6	33.6	30.6	30.5	35
Fe-T	mg/L	1	0.105	0.0842	0.0825	0.0839	0.0719	0.095
Pb-T	mg/L		0.0000257	<0.0000050	<0.0000050	0.0000073	0.0000083	0.000031
Mg-T	mg/L		1.48	1.51	1.5	1.24	1.29	1.46
Mn-T	mg/L	0.86	0.0151	0.0117	0.01	0.00958	0.00758	0.0104
Mo-T	mg/L		0.000181	0.000161	0.000179	0.000165	0.000180	0.000248
Ni-T	mg/L		0.000119	0.000087	0.000084	0.000087	0.000073	0.00023
K-T	mg/L		0.248	0.204	0.194	0.159	0.169	<0.25
S-T	mg/L		7.9	6.8	6.8	4.9	5.0	6.3
Se-T	mg/L	0.002	0.000052	0.000051	0.000046	0.000053	0.000054	0.000056
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.000010
Na-T	mg/L		9.86	8.2	8.04	6.39	6.90	7.99
Sr-T	mg/L		0.0634	0.0559	0.0562	0.0419	0.0447	0.0496
Zn-T	mg/L		0.00016	<0.00010	0.00011	<0.00010	<0.00010	0.0013
Al-D	mg/L		0.0189	0.0214	0.0207	0.0243	0.0271	0.0262
As-D	mg/L		0.000459	0.000384	0.000319	0.000262	0.000271	0.00027
Ba-D	mg/L		0.00287	0.00258	0.00235	0.00212	0.00204	0.00205
B-D	mg/L		0.035	0.034	0.028	0.025	0.028	0.026
Cd-D	mg/L	0.00014	<0.0000050	0.0000053	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		11.5	11.5	10.7	10.3	10.0	9.52
Cr-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011
Co-D	mg/L		0.0000259	0.0000312	0.0000219	0.0000214	0.0000230	0.0000222
Cu-D	mg/L	0.001	0.000607	0.000591	0.000439	0.000545	0.000589	0.000843
Hard-D	mg/L		34.7	34.8	32.1	31.3	30.2	29
DOC	mg/L		2.6	2.8	2.7	2.9	3.0	2.9
Fe-D	mg/L		0.0425	0.0376	0.0376	0.0377	0.0364	0.0321
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.46	1.49	1.33	1.32	1.27	1.27
Mn-D	mg/L		0.0126	0.0094	0.00764	0.00583	0.00537	0.00639
Mo-D	mg/L		0.000187	0.000278	0.000182	0.000214	0.000227	0.000202
Ni-D	mg/L	0.0017	0.000078	0.000088	0.000071	0.000076	0.000067	0.000098
K-D	mg/L		0.243	0.202	0.187	0.163	0.169	0.169
S-D	mg/L		8.2	6.6	6.1	5	5.1	4.7
Se-D	mg/L		0.000048	0.000051	0.000042	0.000045	0.000048	0.00005
Na-D	mg/L		9.81	8.11	7.4	6.67	6.73	6.64
Sr-D	mg/L		0.0627	0.0517	0.0525	0.0447	0.0422	0.0396
Zn-D	mg/L	0.012	0.00082	0.00121	0.00059	0.00141	0.00115	0.00201

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,								
EMS ID		E286930						
StnName		Quinsam R						
StnCode		QRDS1						
QRTrigger2			15-Dec-25	16-Dec-25	17-Dec-25	18-Dec-25	19-Dec-25	22-Dec-25
pH-F	pH Units		6.59	6.98	7.46	7.96	6.38	6.9
Cond-F	uS/cm		104	180.6	91.5	75.2	86	111.6
Temp-F	C		8.8	7.9	7.8	5.7	6.8	5.9
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	18	15	11	11	11	15
TSS	mg/L	2.4	1.6	2.8	<1.0	<1.0	2.4	<1.0
Alk-T	mg/L		30	28	24	26	23	29
Al-T	mg/L	0.28	0.0574	0.074	0.0374	0.0623	0.0508	0.0426
As-T	mg/L	0.005	0.000524	0.000336	0.000252	0.000226	0.000229	0.00034
Ba-T	mg/L		0.00268	0.00226	0.00136	0.0019	0.00176	0.002
B-T	mg/L	1.2	0.028	0.022	0.02	0.019	0.018	0.027
Bicarb	mg/L		37	34	29	31	28	35
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.9	8.19	7.88	8.81	8.21	10.3
Cr-T	mg/L	0.0025	0.00014	0.00015	0.00011	0.00012	0.00013	0.0001
Co-T	mg/L	0.004	0.0000432	0.000062	0.000021	0.000047	0.000032	0.000033
Cu-T	mg/L		0.000839	0.00144	0.00074	0.000783	0.00088	0.000678
Hard-T	mg/L		33.2	24.8	23.5	26.7	24.8	31
Fe-T	mg/L	1	0.115	0.13	0.0341	0.0849	0.0656	0.073
Pb-T	mg/L		0.0000481	0.00004	<0.000020	0.00001	<0.000020	0.000014
Mg-T	mg/L		1.46	1.07	0.94	1.14	1.05	1.27
Mn-T	mg/L	0.86	0.0108	0.0117	0.00244	0.0075	0.00571	0.00817
Mo-T	mg/L		0.000177	0.000169	0.000269	0.000167	0.000171	0.000157
Ni-T	mg/L		0.000123	0.00014	<0.00010	0.000099	<0.00010	0.000083
K-T	mg/L		0.182	<0.25	<0.25	0.141	<0.25	0.163
S-T	mg/L		5.9	3.9	3.4	3.4	3.3	4.8
Se-T	mg/L	0.002	0.000054	0.000046	0.000071	0.000061	0.00005	0.00005
Ag-T	mg/L		<0.0000050	<0.000010	<0.000010	<0.0000050	<0.000010	<0.0000050
Na-T	mg/L		7.03	4.82	3.98	4.44	4.01	6.5
Sr-T	mg/L		0.0452	0.0342	0.0293	0.0326	0.0296	0.0397
Zn-T	mg/L		0.00047	0.0012	<0.0010	0.00019	<0.0010	0.00031
Al-D	mg/L		0.0275	0.0273	0.0283	0.0261	0.0275	0.0257
As-D	mg/L		0.000237	0.000174	0.000213	0.000171	0.000212	0.000289
Ba-D	mg/L		0.00224	0.00192	0.00165	0.00164	0.00158	0.00185
B-D	mg/L		0.027	0.025	0.021	0.017	0.02	0.026
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.5	9.01	8.64	8.2	8.47	9.47
Cr-D	mg/L		0.00011	0.0001	0.0001	<0.00010	<0.00010	0.0001
Co-D	mg/L		0.0000246	0.0000232	0.000021	0.000019	0.000023	0.000024
Cu-D	mg/L	0.001	0.000668	0.000626	0.000612	0.000636	0.000617	0.00059
Hard-D	mg/L		31.8	27.4	25.9	24.8	25.7	28.6
DOC	mg/L		3	3	3	2.9	2.8	3.1
Fe-D	mg/L		0.0357	0.0283	0.0251	0.0231	0.0242	0.0258
Pb-D	mg/L		0.000006	0.0000059	<0.0000050	<0.0000050	<0.0000050	0.000006
Mg-D	mg/L		1.37	1.2	1.06	1.05	1.11	1.21
Mn-D	mg/L		0.00547	0.00405	0.00373	0.00367	0.00387	0.00604
Mo-D	mg/L		0.000389	0.000249	0.000196	0.000306	0.000179	0.000338
Ni-D	mg/L	0.0017	0.000079	0.000069	0.000086	0.000066	0.00008	0.000074
K-D	mg/L		0.181	0.156	0.135	0.135	0.135	0.162
S-D	mg/L		5.6	4.4	3.6	3.6	3.2	4.8
Se-D	mg/L		0.000073	0.000052	0.000054	0.000047	0.000055	0.000055
Na-D	mg/L		6.8	5.17	4.11	4	4.25	6.29
Sr-D	mg/L		0.044	0.0379	0.0324	0.0303	0.029	0.0378
Zn-D	mg/L	0.012	0.0021	0.0011	0.0007	0.00068	0.0004	0.00165

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,							
EMS ID		E286930					
StnName		Quinsam R					
StnCode		QRDS1					
		QRTrigger2	23-Dec-25	24-Dec-25	28-Dec-25	30-Dec-25	31-Dec-25
pH-F	pH Units		6.75	7.95	6.62	7.73	6.31
Cond-F	uS/cm		106.8	100.4	133.3	172.8	147.5
Temp-F	C		5.5	4	4.4	4.4	3.9
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	16	18	26	30	31
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		30	31	37	40	42
Al-T	mg/L	0.28	0.0373	0.0445	0.0382	0.0349	0.0258
As-T	mg/L	0.005	0.000347	0.000405	0.000582	0.000644	0.000649
Ba-T	mg/L		0.00209	0.00228	0.00287	0.0032	0.00315
B-T	mg/L	1.2	0.028	0.034	0.047	0.051	0.054
Bicarb	mg/L		36	37	45	49	51
Cd-T	mg/L		0.00001	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		10.2	10.4	12.0	13.1	12.9
Cr-T	mg/L	0.0025	0.00011	0.00012	0.00012	0.0001	<0.00010
Co-T	mg/L	0.004	0.0000456	0.0000425	0.0000479	0.0000513	0.0000435
Cu-T	mg/L		0.000765	0.000761	0.000705	0.000704	0.000628
Hard-T	mg/L		30.7	31.5	36.7	39.4	39
Fe-T	mg/L	1	0.0696	0.0992	0.108	0.139	0.0939
Pb-T	mg/L		0.0000177	0.0000058	0.0000087	<0.0000050	<0.0000050
Mg-T	mg/L		1.29	1.37	1.62	1.64	1.64
Mn-T	mg/L	0.86	0.00878	0.0107	0.0141	0.0164	0.0151
Mo-T	mg/L		0.000179	0.00018	0.000177	0.000178	0.000157
Ni-T	mg/L		0.0001	0.000099	0.000107	0.000105	0.000109
K-T	mg/L		0.18	0.201	0.271	0.294	0.294
S-T	mg/L		5.2	6.1	8.4	9	9.9
Se-T	mg/L	0.002	0.000062	0.000061	0.000054	0.000054	0.00005
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		6.92	8.51	12.0	13.8	14.2
Sr-T	mg/L		0.0413	0.0465	0.0668	0.0764	0.0733
Zn-T	mg/L		0.00036	0.00016	0.00031	0.00011	0.00016
Al-D	mg/L		0.0249	0.0208	0.0208	0.0189	0.0202
As-D	mg/L		0.000337	0.000336	0.000490	0.000561	0.000606
Ba-D	mg/L		0.00186	0.0021	0.00259	0.00278	0.00311
B-D	mg/L		0.027	0.03	0.042	0.045	0.055
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		10.1	10.4	12.1	12.2	13.7
Cr-D	mg/L		0.0001	0.0001	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000258	0.0000271	0.0000340	0.0000377	0.000041
Cu-D	mg/L	0.001	0.000648	0.000586	0.000664	0.000548	0.000573
Hard-D	mg/L		30.3	30.8	36.0	36.6	41
DOC	mg/L		2.7	2.8	2.5	2.4	2.4
Fe-D	mg/L		0.0271	0.0352	0.0333	0.0348	0.0378
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.26	1.18	1.39	1.53	1.66
Mn-D	mg/L		0.00703	0.00756	0.0115	0.0132	0.0141
Mo-D	mg/L		0.000174	0.000329	0.000204	0.000174	0.000183
Ni-D	mg/L	0.0017	0.000073	0.000067	0.000090	0.000089	0.000096
K-D	mg/L		0.185	0.187	0.254	0.273	0.297
S-D	mg/L		7	5.4	8.3	9	10.5
Se-D	mg/L		0.000044	0.000054	0.000055	0.000049	0.000049
Na-D	mg/L		7.49	6.96	9.99	11.8	14.2
Sr-D	mg/L		0.0435	0.0448	0.0653	0.0701	0.078
Zn-D	mg/L	0.012	0.00099	0.00097	0.00144	0.00075	0.00032

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,						
EMS ID		E286930				
StnName		Quinsam R				
StnCode		QRDS1				
		QRTrigger2	3-Jan-26	6-Jan-26	7-Jan-26	8-Jan-26
pH-F	pH Units			6.24	7.12	7.57
Cond-F	uS/cm			129	138.5	149.1
Temp-F	C			4.8	4.1	4.6
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	27	27	27	28
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		39	36	38	39
Al-T	mg/L	0.28	0.0258	0.0292	0.0288	0.0282
As-T	mg/L	0.005	0.000548	0.000519	0.000499	0.000457
Ba-T	mg/L		0.00276	0.00269	0.00262	0.00265
B-T	mg/L	1.2	0.046	0.044	0.047	0.05
Bicarb	mg/L		48	44	47	48
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		11.9	11.9	11.6	11.9
Cr-T	mg/L	0.0025	<0.00010	<0.00010	<0.00010	<0.00010
Co-T	mg/L	0.004	0.0000366	0.0000304	0.0000343	0.0000342
Cu-T	mg/L		0.000577	0.000581	0.00057	0.000588
Hard-T	mg/L		36	36.1	35.4	36
Fe-T	mg/L	1	0.0887	0.0804	0.0742	0.0893
Pb-T	mg/L		0.0000051	<0.0000050	<0.0000050	<0.0000050
Mg-T	mg/L		1.53	1.53	1.58	1.54
Mn-T	mg/L	0.86	0.0116	0.00951	0.0103	0.0106
Mo-T	mg/L		0.000173	0.000168	0.000174	0.000192
Ni-T	mg/L		0.00008	0.000071	0.000067	0.00008
K-T	mg/L		0.244	0.234	0.249	0.246
S-T	mg/L		8.4	8.4	9	8.4
Se-T	mg/L	0.002	0.000056	<0.000040	0.000049	0.000051
Ag-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Na-T	mg/L		12.3	11.4	12.7	12.6
Sr-T	mg/L		0.0614	0.0636	0.0645	0.0658
Zn-T	mg/L		<0.00010	0.00011	0.00014	0.00013
Al-D	mg/L		0.0195	0.0234	0.0234	0.0195
As-D	mg/L		0.000449	0.000417	0.000468	0.000411
Ba-D	mg/L		0.0026	0.00259	0.00255	0.00249
B-D	mg/L		0.046	0.048	0.047	0.05
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		12.1	11.9	12	11.4
Cr-D	mg/L		0.0001	<0.00010	<0.00010	<0.00010
Co-D	mg/L		0.0000328	0.0000292	0.0000284	0.0000286
Cu-D	mg/L	0.001	0.000558	0.000516	0.000516	0.000542
Hard-D	mg/L		36.7	36.7	36.7	34.6
DOC	mg/L		2.3	2.6	2.7	2.7
Fe-D	mg/L		0.0323	0.0345	0.0392	0.0357
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.55	1.69	1.63	1.47
Mn-D	mg/L		0.0101	0.00875	0.00894	0.00903
Mo-D	mg/L		0.00016	0.000168	0.000183	0.00028
Ni-D	mg/L	0.0017	0.000094	0.000057	0.000085	0.000087
K-D	mg/L		0.243	0.25	0.248	0.233
S-D	mg/L		8.5	9.1	9	7.8
Se-D	mg/L		0.000049	0.000068	0.000042	0.000047
Na-D	mg/L		12.9	12.9	12.8	12.5
Sr-D	mg/L		0.0632	0.0647	0.0616	0.0657
Zn-D	mg/L	0.012	0.00039	0.00061	0.00052	0.00108

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,						
EMS ID		E286930				
StnName		Quinsam R				
StnCode		QRDS1				
		QRTrigger2	19-Jan-26	2-Feb-26	2-Mar-26	30-Mar-26
pH-F	pH Units		7.82	7.47	7.85	7.65
Cond-F	uS/cm		90.4	79.2	146.2	147.9
Temp-F	C		4.1	6.7	4.7	4.4
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050
SO4-D	mg/L	218	13	11	25	30
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		29	27	36	40
Al-T	mg/L	0.28	0.0431	0.0454	0.0333	0.0326
As-T	mg/L	0.005	0.000373	0.000234	0.0007	0.000598
Ba-T	mg/L		0.00198	0.00164	0.00318	0.00288
B-T	mg/L	1.2	0.024	0.018	0.045	0.055
Bicarb	mg/L		35	33	44	49
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-T	mg/L		9.58	7.7	11.5	13.3
Cr-T	mg/L	0.0025	0.00012	0.00011	0.00141	0.00011
Co-T	mg/L	0.004	0.0000343	0.000036	0.0000468	0.000088
Cu-T	mg/L		0.000762	0.00064	0.000906	0.00065
Hard-T	mg/L		28.6	23.6	35.1	40.4
Fe-T	mg/L	1	0.0718	0.0575	0.0844	0.0945
Pb-T	mg/L		0.0000063	<0.000020	<0.0000050	<0.000020
Mg-T	mg/L		1.14	1.05	1.55	1.78
Mn-T	mg/L	0.86	0.00893	0.00641	0.0135	0.0219
Mo-T	mg/L		0.000167	0.000145	0.000199	0.000183
Ni-T	mg/L		0.00009	<0.00010	0.000566	0.00018
K-T	mg/L		0.163	<0.25	0.253	0.27
S-T	mg/L		4	3.5	7.8	9.7
Se-T	mg/L	0.002	0.000066	0.00005	<0.000040	0.000044
Ag-T	mg/L		<0.0000050	<0.000010	<0.0000050	<0.000010
Na-T	mg/L		5.94	4.57	10.8	14
Sr-T	mg/L		0.037	0.0294	0.0658	0.0765
Zn-T	mg/L		0.00018	<0.0010	0.00024	<0.0010
Al-D	mg/L		0.0239	0.0281	0.0241	0.0198
As-D	mg/L		0.000337	0.000224	0.000667	0.00055
Ba-D	mg/L		0.00185	0.00155	0.003	0.00272
B-D	mg/L		0.025	0.02	0.044	0.045
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Ca-D	mg/L		9.55	8.83	11.1	12.6
Cr-D	mg/L		0.00012	0.0001	0.00025	<0.00010
Co-D	mg/L		0.0000259	0.000029	0.0000378	0.0000777
Cu-D	mg/L	0.001	0.000633	0.000593	0.000585	0.000693
Hard-D	mg/L		28.6	26.9	34.1	37.4
DOC	mg/L		2.7	3.2	2.6	2.3
Fe-D	mg/L		0.0234	0.0265	0.0377	0.0366
Pb-D	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050
Mg-D	mg/L		1.15	1.17	1.54	1.46
Mn-D	mg/L		0.00685	0.00537	0.0122	0.0203
Mo-D	mg/L		0.000189	0.000221	0.000198	0.000168
Ni-D	mg/L	0.0017	0.00006	0.000074	0.000158	0.000149
K-D	mg/L		0.163	0.132	0.245	0.262
S-D	mg/L		4	3.7	7.6	9.2
Se-D	mg/L		0.000056	0.000052	0.00006	<0.000040
Na-D	mg/L		5.93	5.1	10.5	12.1
Sr-D	mg/L		0.0374	0.031	0.0639	0.0727
Zn-D	mg/L	0.012	0.00061	0.00087	0.00036	0.00055

Attachment 1
River Barrier Pillar Passive Treatment System
Table 15

Quinsam River - November 20,								
EMS ID		E286930						
StnName		Quinsam R						
StnCode		QRDS1						
		QRTrigger2	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		36	8.5	7.26	7.88	0	0.0
Cond-F	uS/cm		36	180.6	121.4	148.5	0	0.0
Temp-F	C		36	9	6.45	8.35	0	0.0
Br-D	mg/L		36	<0.010	0.0050	0.005	0	0.0
Cl-D	mg/L	150	36	<1.0	0.50	0.5	0	0.0
F-D	mg/L	1.1	36	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	218	36	46	22.3	29.5	0	0.0
TSS	mg/L	2.4	36	3.2	0.78	1.8	2	5.6
Alk-T	mg/L		36	56	33.4	39.5	0	0.0
Al-T	mg/L	0.28	37	0.074	0.0354	0.0476	0	0.0
As-T	mg/L	0.005	37	0.0007	0.000457	0.000599	0	0.0
Ba-T	mg/L		37	0.0037	0.00263	0.0032	0	0.0
B-T	mg/L	1.2	37	0.055	0.036	0.048	0	0.0
Bicarb	mg/L		36	69	40.8	48.5	0	0.0
Cd-T	mg/L		37	0.000023	0.00000326	2.50E-06	0	0.0
Ca-T	mg/L		37	13.3	11.18	12.98	0	0.0
Cr-T	mg/L	0.0025	37	0.00141	0.000145	0.000154	0	0.0
Co-T	mg/L	0.004	37	0.000088	0.0000376	5.17E-05	0	0.0
Cu-T	mg/L		37	0.00173	0.000702	0.000855	0	0.0
Hard-T	mg/L		37	40.4	33.9	39.2	0	0.0
Fe-T	mg/L	1	37	0.165	0.0869	0.1108	0	0.0
Pb-T	mg/L		37	0.0000481	0.00000951	2.29E-05	0	0.0
Mg-T	mg/L		37	1.78	1.46	1.7	0	0.0
Mn-T	mg/L	0.86	37	0.0219	0.01140	0.0151	0	0.0
Mo-T	mg/L		37	0.000269	0.000176	0.000194	0	0.0
Ni-T	mg/L		37	0.000566	0.000108	0.000136	0	0.0
K-T	mg/L		37	0.294	0.212	0.27	0	0.0
S-T	mg/L		37	9.9	7.0	9.4	0	0.0
Se-T	mg/L	0.002	37	0.000071	0.0000509	6.10E-05	0	0.0
Ag-T	mg/L		37	<0.000010	0.00000291	5.00E-06	0	0.0
Na-T	mg/L		37	14.2	9.27	12.64	0	0.0
Sr-T	mg/L		37	0.0765	0.0557	0.0721	0	0.0
Zn-T	mg/L		37	0.0013	0.000303	0.0005	0	0.0
Al-D	mg/L		37	0.0283	0.0222	0.0274	0	0.0
As-D	mg/L		37	0.000667	0.000395	0.000554	0	0.0
Ba-D	mg/L		37	0.0035	0.00249	0.00306	0	0.0
B-D	mg/L		37	0.055	0.035	0.046	0	0.0
Cd-D	mg/L	0.00014	37	0.0000053	0.00000258	2.50E-06	0	0.0
Ca-D	mg/L		37	13.7	11.03	12.54	0	0.0
Cr-D	mg/L		37	0.00025	0.000091	0.00015	0	0.0
Co-D	mg/L		37	0.0000777	0.0000273	3.55E-05	0	0.0
Cu-D	mg/L	0.001	37	0.000843	0.000591	0.000654	0	0.0
Hard-D	mg/L		37	41	33.4	37.6	0	0.0
DOC	mg/L		36	3.2	2.8	3	0	0.0
Fe-D	mg/L		37	0.0502	0.0346	0.041	0	0.0
Pb-D	mg/L		37	0.000006	0.00000285	3.54E-06	0	0.0
Mg-D	mg/L		37	1.69	1.42	1.63	0	0.0
Mn-D	mg/L		37	0.0203	0.00927	0.01336	0	0.0
Mo-D	mg/L		37	0.000389	0.000213	0.00029	0	0.0
Ni-D	mg/L	0.0017	37	0.000158	0.000081	9.50E-05	0	0.0
K-D	mg/L		37	0.297	0.211	0.261	0	0.0
S-D	mg/L		37	10.5	7.0	9.1	0	0.0
Se-D	mg/L		37	0.000073	0.0000501	5.76E-05	0	0.0
Na-D	mg/L		37	14.2	8.99	12.62	0	0.0
Sr-D	mg/L		37	0.078	0.0550	0.0702	0	0.0
Zn-D	mg/L	0.012	37	0.0021	0.00094	0.00152	0	0.0

Attachment 1
River Barrier Pillar Passive Treatment System
Table 16

Quinsam River - November 20, 2025 to March 31st 2026												
EMS ID		E292113										
StnName		7 South Quinsam River										
StnCode		75QR										
		QRTrigger2 (T)	6-Jan-26	2-Feb-26	2-Mar-26	30-Mar-26	Count	Max	Av	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units		7.44	7.24	7.25	7.95	4	7.95	7.47	7.8	0	0.0
Cond-F	uS/cm		132.5	71.3	135.6	142.6	4	142.6	120.5	140.5	0	0.0
Temp-F	C		4.8	5.7	3.3	6.3	4	6.3	5.0	6.1	0	0.0
Br-D	mg/L		<0.010	<0.010	<0.010	<0.010	4	<0.010	0.0050	0.005	0	0.0
Cl-D	mg/L	150	<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	0.5	0	0.0
F-D	mg/L	1.1	<0.050	<0.050	<0.050	<0.050	4	<0.050	0.0250	0.025	0	0.0
SO4-D	mg/L	218	26	10	23	30	4	30	22.2	28.8	0	0.0
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	0.5	0	0.0
Alk-T	mg/L		36	26	33	37	4	37	33.0	36.7	0	0.0
Al-T	mg/L	0.28	0.0422	0.0496	0.0425	0.02	4	0.0496	0.0386	0.0475	0	0.0
As-T	mg/L	0.005	0.000472	0.000254	0.000625	0.000515	4	0.000625	0.000467	0.000592	0	0.0
Ba-T	mg/L		0.00278	0.0018	0.00294	0.00281	4	0.00294	0.00258	0.0029	0	0.0
B-T	mg/L	1.2	0.041	0.019	0.044	0.048	4	0.048	0.038	0.047	0	0.0
Bicarb	mg/L		43	32	40	46	4	46	40.2	45.1	0	0.0
Cd-T	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	4	<0.0000050	0.00000250	2.50E-06	0	0.0
Ca-T	mg/L		11.5	7.75	11.2	12	4	12	10.61	11.85	0	0.0
Cr-T	mg/L	0.0025	0.00012	0.00011	0.00077	<0.00010	4	0.00077	0.000262	0.000575	0	0.0
Co-T	mg/L	0.004	0.000041	0.000032	0.0000462	0.0000609	4	0.0000609	0.0000450	5.65E-05	0	0.0
Cu-T	mg/L		0.000625	0.00062	0.000731	0.000591	4	0.000731	0.000642	0.000699	0	0.0
Hard-T	mg/L		35.3	23.4	34.3	35.8	4	35.8	32.2	35.6	0	0.0
Fe-T	mg/L	1	0.111	0.0696	0.113	0.0502	4	0.113	0.0859	0.1124	0	0.0
Pb-T	mg/L		0.0000159	<0.000020	0.000053	<0.000050	4	0.0000159	0.0000842	1.41E-05	0	0.0
Mg-T	mg/L		1.57	0.97	1.55	1.44	4	1.57	1.38	1.56	0	0.0
Mn-T	mg/L	0.86	0.0103	0.00352	0.0125	0.0155	4	0.0155	0.01046	0.0146	0	0.0
Mo-T	mg/L		0.000157	0.000147	0.000176	0.00018	4	0.00018	0.000165	0.000179	0	0.0
Ni-T	mg/L		0.000084	<0.00010	0.000369	0.000139	4	0.000369	0.000160	0.0003	0	0.0
K-T	mg/L		0.229	<0.25	0.228	0.254	4	0.254	0.209	0.246	0	0.0
S-T	mg/L		8.1	3.3	7.6	9	4	9	7.0	8.7	0	0.0
Se-T	mg/L	0.002	0.00005	<0.000040	0.000046	0.000048	4	0.00005	0.0000410	4.94E-05	0	0.0
Ag-T	mg/L		<0.0000050	<0.000010	<0.0000050	<0.0000050	4	<0.000010	0.00000313	4.25E-06	0	0.0
Na-T	mg/L		11.1	4.33	9.88	11.9	4	11.9	9.30	11.66	0	0.0
Sr-T	mg/L		0.0581	0.0289	0.0556	0.0673	4	0.0673	0.0525	0.0645	0	0.0
Zn-T	mg/L		0.00093	<0.0010	0.00033	0.00043	4	0.00093	0.00055	0.0008	0	0.0
Al-D	mg/L		0.025	0.0274	0.0265	0.0319	4	0.0319	0.0277	0.0306	0	0.0
As-D	mg/L		0.0004	0.00022	0.000597	0.000573	4	0.000597	0.000447	0.00059	0	0.0
Ba-D	mg/L		0.00259	0.00166	0.00288	0.00292	4	0.00292	0.00251	0.00291	0	0.0
B-D	mg/L		0.046	0.02	0.042	0.043	4	0.046	0.038	0.045	0	0.0
Cd-D	mg/L	0.00014	<0.0000050	<0.0000050	<0.0000050	<0.0000050	4	<0.0000050	0.00000250	2.50E-06	0	0.0
Ca-D	mg/L		12.1	8.24	10.3	12.3	4	12.3	10.73	12.24	0	0.0
Cr-D	mg/L		<0.00010	0.0001	0.00023	0.00012	4	0.00023	0.000125	0.000197	0	0.0
Co-D	mg/L		0.0000281	0.0000223	0.0000352	0.0000722	4	0.0000722	0.0000394	6.11E-05	0	0.0
Cu-D	mg/L	0.001	0.000482	0.000589	0.000553	0.000665	4	0.000665	0.000572	0.000642	0	0.0
Hard-D	mg/L		37.1	25	31.9	36.8	4	37.1	32.7	37	0	0.0
DOC	mg/L		2.6	3.2	2.7	2.4	4	3.2	2.7	3.1	0	0.0
Fe-D	mg/L		0.0478	0.0337	0.055	0.114	4	0.114	0.0626	0.0963	0	0.0
Pb-D	mg/L		<0.0000050	<0.0000050	0.0000056	0.000006	4	0.000006	0.00000415	5.88E-06	0	0.0
Mg-D	mg/L		1.7	1.08	1.49	1.46	4	1.7	1.43	1.64	0	0.0
Mn-D	mg/L		0.00713	0.00263	0.01	0.0169	4	0.0169	0.00916	0.01483	0	0.0
Mo-D	mg/L		0.000178	0.000214	0.000257	0.00017	4	0.000257	0.000205	0.000244	0	0.0
Ni-D	mg/L	0.0017	0.000047	0.000077	0.00016	0.000146	4	0.00016	0.000108	0.000156	0	0.0
K-D	mg/L		0.234	0.129	0.23	0.256	4	0.256	0.212	0.249	0	0.0
S-D	mg/L		8.3	3.4	6.5	9	4	9	6.8	8.8	0	0.0
Se-D	mg/L		0.000068	0.000042	0.000047	0.00006	4	0.000068	0.000054	6.60E-05	0	0.0
Na-D	mg/L		12	4.73	9.64	11.9	4	12	9.57	11.97	0	0.0
Sr-D	mg/L		0.0587	0.0289	0.0555	0.0697	4	0.0697	0.0532	0.0664	0	0.0
Zn-D	mg/L	0.012	0.00091	0.00031	0.00031	0.00021	4	0.00091	0.00043	0.00073	0	0.0

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River Barrier Pillar Passive Treatment System

Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
WB	Monlthy Averages	0.0327	7.26	2.8	0.320	no
WB	Monlthy Averages	0.0415	7.27	2.9	0.320	no
WB	Monlthy Averages	0.0427	7.69	2.8	0.330	no
WB	Monlthy Averages	0.0325	7.48	2.9	0.320	no
WB	Monlthy Averages	0.0338	7.1	2.5	0.320	no
QRUS	Monlthy Averages	0.0363	7.68	2.4	0.280	no
QRUS	Monlthy Averages	0.039	6.94	2.6	0.310	no
QRUS	Monlthy Averages	0.031	6.92	2.9	0.310	no
QRUS	Monlthy Averages	0.0385	7.02	2.45	0.260	no
QRDS	Monlthy Averages	0.291	7.62	3.2	0.370	no
QRDS	Monlthy Averages	0.128	7.59	2.6	0.330	no
QRDS	Monlthy Averages	0.098	6.74	2.6	0.300	no
WB	20-Nov-25	0.023	7.19	2.8	0.320	no
WB	21-Nov-25	0.028	7.47	2.8	0.320	no
WB	22-Nov-25	0.0241	7.32	2.9	0.320	no
WB	23-Nov-25	0.0223	7.44	2.8	0.320	no
WB	24-Nov-25	0.0225	7.67	2.7	0.330	no
WB	25-Nov-25	0.0211	7.14	2.6	0.320	no
WB	26-Nov-25	0.0216	6.75	2.6	0.300	no
WB	27-Nov-25	0.0218	6.55	2.5	0.290	no
WB	2-Dec-25	0.0224	7.29	2.6	0.320	no
WB	4-Dec-25	0.0245	7.69		0.075	no
WB	5-Dec-25	0.0239	7.54		0.075	no
WB	6-Dec-25	0.0251	7.58	2.5	0.330	no
WB	7-Dec-25	0.0235	7.68	2.5	0.330	no
WB	8-Dec-25	0.0258	6.57	2.4	0.250	no
WB	9-Dec-25	0.0327	7.27	2.8	0.320	no
WB	10-Dec-25	0.0412	7.01	3	0.350	no
WB	11-Dec-25	0.0471	6.93	3.3	0.350	no
WB	12-Dec-25	0.0429	6.6	3.2	0.330	no
WB	14-Dec-25	0.0338	6.96	2.9	0.310	no
WB	15-Dec-25	0.0387	7.07	3.1	0.350	no
WB	16-Dec-25	0.0352	7.08	3.3	0.350	no
WB	17-Dec-25	0.0315	7.18	3.2	0.360	no
WB	18-Dec-25	0.0308	7.54	3.1	0.370	no
WB	19-Dec-25	0.0274	6.91	3.1	0.350	no
WB	22-Dec-25	0.0223	7.65	2.9	0.330	no
WB	24-Dec-25	0.0159	7.68	2.6	0.330	no
WB	28-Dec-25	0.0197	7.06	3	0.350	no
WB	30-Dec-25	0.0193	7.57	2.4	0.280	no
WB	31-Dec-25	0.0181	7.6	2.3	0.280	no
WB	6-Jan-26	0.0337	7.06	2.7	0.310	no
WB	7-Jan-26	0.0581	7.75	2.8	0.330	no
WB	8-Jan-26	0.0605	7.87	2.8	0.330	no
WB	19-Jan-26	0.0219	7.62	2.9	0.330	no
WB	26-Jan-26	0.0207	7.93	2.3	0.290	no

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Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
WB	29-Jan-26	0.0213	7.34	3.1	0.360	no
WB	2-Feb-26	0.0224	7.62	2.9	0.330	no
WB	5-Feb-26	0.0238	7.61	3.1	0.370	no
WB	9-Feb-26	0.0176	7.24	3	0.360	no
WB	23-Feb-26	0.0299	7.48	2.6	0.320	no
WB	25-Feb-26	0.0305	7.42	2.6	0.320	no
WB	2-Mar-26	0.0254	6.83	2.6	0.300	no
WB	4-Mar-26	0.0234	7	2.6	0.310	no
WB	9-Mar-26	0.0262	6.84	2.2	0.260	no
WB	11-Mar-26	0.0245	6.75	2.5	0.300	no
WB	16-Mar-26	0.0243	7.82	2.6	0.330	no
WB	18-Mar-26	0.0155	7.1	2.5	0.320	no
WB	23-Mar-26	0.0272	7.54	2.6	0.330	no
WB	25-Mar-26	0.0156	7.13	2.4	0.270	no
WB	30-Mar-26	0.0165	7.52	2.5	0.330	no
QRUS	4-Dec-25	0	7.77		0.078	no
QRUS	23-Dec-25	0.0184	7.66	2.7	0.330	no
QRUS	24-Dec-25	0.0197	7.64	2.7	0.330	no
QRUS	28-Dec-25	0.0235	7.85	2.4	0.290	no
QRUS	30-Dec-25	0.0211	7.7	2.4	0.290	no
QRUS	31-Dec-25	0.022	6.87	2.4	0.260	no
QRUS	3-Jan-26	0.022		2.2	0.220	no
QRUS	6-Jan-26	0.0253	6.81	2.4	0.260	no
QRUS	7-Jan-26	0.026	7.07	2.6	0.310	no
QRUS	8-Jan-26	0.0261	7.17	2.6	0.320	no
QRUS	19-Jan-26	0.0171	6.62	2.6	0.290	no
QRUS	26-Jan-26	0.0194	6.46	2.1	0.230	no
QRUS	29-Jan-26	0.0209	7.4	3	0.360	no
QRUS	2-Feb-26	0.0211	6.76	2.9	0.300	no
QRUS	5-Feb-26	0.0185	6.81	2.9	0.300	no
QRUS	9-Feb-26	0.0182	7.24	3	0.360	no
QRUS	23-Feb-26	0.0325	7.02	2.7	0.310	no
QRUS	25-Feb-26	0.0293	6.92	2.6	0.310	no
QRUS	2-Mar-26	0.0251	6.86	2.5	0.300	no
QRUS	4-Mar-26	0.0243	7.02	0.5	0.095	no
QRUS	9-Mar-26	0.0245	7.04	2.4	0.260	no
QRUS	11-Mar-26	0.0247	7.09	2.4	0.260	no
QRUS	16-Mar-26	0.0247	6.96	2.5	0.310	no
QRUS	18-Mar-26	0.0307		2.8	0.260	no
QRUS	23-Mar-26	0.0155	6.69	2.6	0.290	no
QRUS	25-Mar-26	0.0155	7.42	2.4	0.280	no
QRDS	24-Nov-25	0.0611	7.49	2.6	0.320	no
QRDS	26-Nov-25	0.0666	7.56		0.075	no
QRDS	27-Nov-25	0.0442	7.62	3.8	0.400	no
QRDS	28-Nov-25	0.0347	7.64		0.075	no
QRDS	29-Nov-25	0.0372	7.74		0.078	no

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Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
QRDS	1-Dec-25	0.0238	8.06		0.082	no
QRDS	3-Dec-25	0.0265	7.78		0.078	no
QRDS	4-Dec-25	0.0243	7.76		0.078	no
QRDS	5-Dec-25	0.0284	7.62		0.075	no
QRDS	6-Dec-25	0.0288	7.62	2.5	0.330	no
QRDS	7-Dec-25	0.0281	7.62	2.6	0.330	no
QRDS	8-Dec-25	0.0533	7.41	2.4	0.280	no
QRDS	9-Dec-25	0.0398	7.4	2.6	0.320	no
QRDS	10-Dec-25	0.0431	7.67	2.6	0.330	no
QRDS	11-Dec-25	0.0506	6.71	2.7	0.300	no
QRDS	12-Dec-25	0.0584	7.61	2.7	0.330	no
QRDS	14-Dec-25	0.0423	7.57	2.8	0.330	no
QRDS	15-Dec-25	0.04	7.52	2.7	0.330	no
QRDS	16-Dec-25	0.0401	7.58	2.9	0.330	no
QRDS	17-Dec-25	0.0327	7.59	2.9	0.330	no
QRDS	18-Dec-25	0.0317	7.59	2.8	0.330	no
QRDS	19-Dec-25	0.0347	7.53	2.7	0.330	no
QRDS	22-Dec-25	0.0285	7.51	2.6	0.330	no
QRDS	23-Dec-25	0.021	7.7	2.6	0.330	no
QRDS	24-Dec-25	0.0246	7.58	2.8	0.330	no
QRDS	28-Dec-25	0.0292	7.61	2.6	0.330	no
QRDS	30-Dec-25	0.0246	7.74	2.4	0.290	no
QRDS	31-Dec-25	0.0252	6.83	2.4	0.260	no
QRDS	3-Jan-26	0.0284		2.1	0.220	no
QRDS	6-Jan-26	0.0273	6.77	2.6	0.300	no
QRDS	7-Jan-26	0.027	6.72	2.7	0.300	no
QRDS	8-Jan-26	0.0279	7.17	2.6	0.320	no
QRDS	19-Jan-26	0.0224	6.49	2.7	0.280	no
QRDS	26-Jan-26	0.0436	6.3	2.4	0.230	no
QRDS	29-Jan-26	0.0484	6.8	2.8	0.300	no
QRDS	2-Feb-26	0.0555	6.53	2.9	0.290	no
QRDS	5-Feb-26	0.067	6.57	2.5	0.290	no
QRDS	9-Feb-26	0.0544	7.09	2.8	0.310	no
QRDS	23-Feb-26	0.0341	7.12	2.7	0.320	no
QRDS	25-Feb-26	0.0439	7.18	2.4	0.270	no
QRDS	2-Mar-26	0.0262	6.9	2.5	0.310	no
QRDS	4-Mar-26	0.0245	7.2	4	0.430	no
QRDS	9-Mar-26	0.0257	7.04	2.3	0.260	no
QRDS	11-Mar-26	0.0254	7.1	2.3	0.270	no
QRDS	16-Mar-26	0.0913	6.94	2.4	0.260	no
QRDS	18-Mar-26	0.0395	6.87	2.4	0.260	no
QRDS	23-Mar-26	0.0343	6.75	2.4	0.260	no
QRDS	25-Mar-26	0.0431	7.36	2.3	0.280	no
QRDSA	10-Dec-25	0.04	6.47	2.6	0.280	no
QRDSA	11-Dec-25	0.0395	6.56	2.8	0.290	no
QRDSA	12-Dec-25	0.0407	7.61	2.9	0.330	no

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Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
QRDSA	14-Dec-25	0.0377	7.56	2.7	0.330	no
QRDSA	15-Dec-25	0.0366	7.53	2.8	0.330	no
QRDSA	16-Dec-25	0.0316	7.63	2.9	0.330	no
QRDSA	17-Dec-25	0.0269	7.74	2.9	0.330	no
QRDSA	18-Dec-25	0.0271	7.68	2.9	0.330	no
QRDSA	19-Dec-25	0.0251	7.58	2.9	0.330	no
QRDSA	22-Dec-25	0.0267	7.6	2.6	0.330	no
QRDSA	23-Dec-25	0.0232	7.84	2.7	0.330	no
QRDSA	24-Dec-25	0.0264	7.68	2.8	0.330	no
QRDSA	28-Dec-25	0.0284	7.64	3	0.370	no
QRDSA	30-Dec-25	0.0291	7.81	2.3	0.290	no
QRDSA	31-Dec-25	0.029	6.68	2.3	0.250	no
QRDSA	3-Jan-26	0.0245		2.3	0.220	no
QRDSA	6-Jan-26	0.0309	6.63	2.6	0.290	no
QRDSA	7-Jan-26	0.0283	6.67	2.6	0.290	no
QRDSA	8-Jan-26	0.0288	7.12	2.5	0.320	no
QRDSA	19-Jan-26	0.0207	6.38	2.6	0.280	no
QRDSA	26-Jan-26	0.0569	6.67	2.4	0.250	no
QRDSA	29-Jan-26	0.208	6.61	2.8	0.290	no
QRDSA	2-Feb-26	0.0387	6.38	3	0.320	no
QRDSA	5-Feb-26	0.037	6.64	2.7	0.290	no
QRDSA	9-Feb-26	0.0358	7.11	3	0.360	no
QRDSA	23-Feb-26	0.0365	6.86	1.6	0.210	no
QRDSA	25-Feb-26	0.0601	7.1	2.6	0.320	no
QRDSA	2-Mar-26	0.0295	6.89	2.7	0.300	no
QRDSA	4-Mar-26	0.0257	7.25	2.6	0.320	no
QRDSA	9-Mar-26	0.0257	6.7	2.2	0.260	no
QRDSA	11-Mar-26	0.0263	6.94	2.4	0.260	no
QRDSA	16-Mar-26	0.0718	6.77	2.3	0.260	no
QRDSA	18-Mar-26	0.0523	6.87	2.5	0.300	no
QRDSA	23-Mar-26	0.0331	6.71	2.5	0.300	no
QRDSA	25-Mar-26	0.0415	7.44	2.3	0.280	no
QRDSB	20-Nov-25	0.0255	7.3	2.5	0.320	no
QRDSB	21-Nov-25	0.031	7.8	2.6	0.330	no
QRDSB	22-Nov-25	0.0319	8.6	2.8	0.330	no
QRDSB	23-Nov-25	0.0307	7.4	2.9	0.320	no
QRDSB	24-Nov-25	0.0278	7.41	2.8	0.320	no
QRDSB	25-Nov-25	0.0257	7.28	2.7	0.320	no
QRDSB	26-Nov-25	0.028	7.16	2.9	0.320	no
QRDSB	27-Nov-25	0.0288	7.22	3.7	0.400	no
QRDSB	2-Dec-25	0.0276	6.95	2.6	0.310	no
QRDSB	5-Dec-25	0.0284	7.83		0.078	no
QRDSB	6-Dec-25	0.03	7.75	2.5	0.330	no
QRDSB	7-Dec-25	0.0303	7.88	2.6	0.330	no
QRDSB	8-Dec-25	0.0344	7.15	2.5	0.320	no
QRDSB	9-Dec-25	0.0359	7.21	2.7	0.320	no

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Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
QRDSB	10-Dec-25	0.0329	7.5	2.7	0.330	no
QRDSB	11-Dec-25	0.0359	7.83	2.7	0.330	no
QRDSB	12-Dec-25	0.0343	7.05	2.8	0.310	no
QRDSB	14-Dec-25	0.0277	7.26	2.7	0.320	no
QRDSB	15-Dec-25	0.0311	7.04	2.7	0.310	no
QRDSB	17-Dec-25	0.0243	7.38	2.9	0.320	no
QRDSB	18-Dec-25	0.0217	7.79	2.9	0.330	no
QRDSB	19-Dec-25	0.0222	6.97	2.8	0.310	no
QRDSB	22-Dec-25	0.0204	7.33	2.6	0.320	no
QRDSB	23-Dec-25	0.0209	7.21	2.7	0.320	no
QRDSB	24-Dec-25	0.0215	8.15	2.7	0.330	no
QRDSB	28-Dec-25	0.0241	7.31	2.3	0.280	no
QRDSB	30-Dec-25	0.0253	7.84	2.3	0.290	no
QRDSB	31-Dec-25	0.0269	7.06	2.4	0.260	no
QRDSB	3-Jan-26	0.025		2.2	0.220	no
QRDSB	6-Jan-26	0.0279	7.08	2.5	0.310	no
QRDSB	7-Jan-26	0.0291	7.33	2.6	0.320	no
QRDSB	8-Jan-26	0.0277	8.07	2.5	0.330	no
QRDSB	26-Jan-26	0.041	7.95	2.2	0.290	no
QRDSB	29-Jan-26	0.111	6.29	2.8	0.260	no
QRDSB	2-Feb-26	0.0281	7.51	3.1	0.370	no
QRDSB	5-Feb-26	0.0256	7.81	2.7	0.330	no
QRDSB	9-Feb-26	0.025	6.6	3.1	0.330	no
QRDSB	2-Mar-26	0.0309	7.44	2.6	0.320	no
QRDSB	4-Mar-26	0.0266	7.11	0.5	0.100	no
QRDSB	9-Mar-26	0.0294	7.16	2.5	0.320	no
QRDSB	11-Mar-26	0.0256	7.07	2.4	0.260	no
QRDSB	16-Mar-26	0.0457	7.71	2.4	0.290	no
QRDSB	18-Mar-26	0.0219	7.12	2.6	0.320	no
QRDSB	23-Mar-26	0.0419	7.5	2.6	0.330	no
QRDSB	25-Mar-26	0.0264	7.2	2.3	0.270	no
QRDSB	30-Mar-26	0.0298	7.54	2.3	0.280	no
QRDS1	20-Nov-25	0.0321	7.08	2.8	0.310	no
QRDS1	21-Nov-25	0.0386	7.36	2.9	0.320	no
QRDS1	22-Nov-25	0.041	8.5	3.1	0.360	no
QRDS1	23-Nov-25	0.0355	7.34	2.8	0.320	no
QRDS1	24-Nov-25	0.0348	7.51	2.8	0.330	no
QRDS1	25-Nov-25	0.0311	7.12	2.6	0.320	no
QRDS1	26-Nov-25	0.0347	6.98	2.7	0.310	no
QRDS1	27-Nov-25	0.0345	7.15	2.6	0.320	no
QRDS1	2-Dec-25	0.0404	6.72	2.6	0.300	no
QRDS1	5-Dec-25	0.0457	7.7		0.078	no
QRDS1	6-Dec-25	0.0502	7.72	3	0.370	no
QRDS1	7-Dec-25	0.041	7.85	2.7	0.330	no
QRDS1	8-Dec-25	0.0425	7.09	2.6	0.310	no
QRDS1	9-Dec-25	0.0376	7.81	2.8	0.330	no

Attachment 1
River Barrier Pillar Passive Treatment System

Table 17

Station Location	Date/Time	Total Fe Concentration (µg/L)	pH	DOC (mg/L)	FWQG (µg/L)	Exceedance?
QRDS1	10-Dec-25	0.0376	6.87	2.7	0.300	no
QRDS1	11-Dec-25	0.0377	7.9	2.9	0.330	no
QRDS1	12-Dec-25	0.0364	6.53	3	0.330	no
QRDS1	14-Dec-25	0.0321	6.83	2.9	0.300	no
QRDS1	15-Dec-25	0.0357	6.59	3	0.330	no
QRDS1	16-Dec-25	0.0283	6.98	3	0.350	no
QRDS1	17-Dec-25	0.0251	7.46	3	0.360	no
QRDS1	18-Dec-25	0.0231	7.96	2.9	0.330	no
QRDS1	19-Dec-25	0.0242	6.38	2.8	0.280	no
QRDS1	22-Dec-25	0.0258	6.9	3.1	0.350	no
QRDS1	23-Dec-25	0.0271	6.75	2.7	0.300	no
QRDS1	24-Dec-25	0.0352	7.95	2.8	0.330	no
QRDS1	28-Dec-25	0.0333	6.62	2.5	0.290	no
QRDS1	30-Dec-25	0.0348	7.73	2.4	0.290	no
QRDS1	31-Dec-25	0.0378	6.31	2.4	0.230	no
QRDS1	3-Jan-26	0.0323		2.3	0.220	no
QRDS1	6-Jan-26	0.0345	6.24	2.6	0.260	no
QRDS1	7-Jan-26	0.0392	7.12	2.7	0.320	no
QRDS1	8-Jan-26	0.0357	7.57	2.7	0.330	no
QRDS1	19-Jan-26	0.0234	7.82	2.7	0.330	no
QRDS1	2-Feb-26	0.0265	7.47	3.2	0.360	no
QRDS1	2-Mar-26	0.0377	7.85	2.6	0.330	no
QRDS1	30-Mar-26	0.0366	7.65	2.3	0.280	no
7SQR	6-Jan-26	0.0478	7.44	2.6	0.320	no
7SQR	2-Feb-26	0.0337	7.24	3.2	0.360	no
7SQR	2-Mar-26	0.055	7.25	2.7	0.320	no
7SQR	30-Mar-26	0.114	7.95	2.4	0.290	no

Attachment 1
River Barrier Pillar Passive Treatment System
Table 18

Trigger Applied to Quinsam Rver			
Parameter of Interest	Unit	Trigger 1	Trigger 2
		(80% BC WQG or 80% background maximum)	(BC WQG or background maximum)
TSS	mg/L	0.8-1.9	1.0-2.4
SO4*	mg/L	102-174	128-218
Cl	mg/L	120	150
T-Al*	mg/L	0.03-0.23	0.037-0.28
T-As	mg/L	0.004	0.005
T-B	mg/L	0.96	1.2
D-Cd*	mg/L	0.000056-0.00011	0.000071-0.00014
T-Co	mg/L	0.0032	0.004
T-Cr	mg/L	0.002	0.0025
D-Cu**	mg/L	0.0008	0.001
T-F*†	mg/L	0.59-0.89	0.73-1.1
T-Fe*†	mg/L	0.8	1
T-Mn*	mg/L	0.56-0.69	0.7-0.86
D-Ni*	mg/L	0.00064-0.0014	0.0008-0.0017
T-Se	mg/L	0.0016	0.002
D-Zn*	mg/L	0.0020-0.0098	0.0025-0.012
Notes Triggers are calculated based on BC long-term WQG. *Triggers are based on variable BC WQG. BC WQG are calculated using same sample toxicity modifying factors at QRDS1. **Trigger 1 based on WB maximum concentration in 2020-2023 dataset; Trigger 2 based on WB maximum concentration + 20% for 2020-2023 dataset. † Trigger based on BC short-term WQG as a BC long-term WQG has not been developed. All other triggers are based on the BC longterm WQG.			
Note: Quinsam Applied Trigger 2 maximum to screen the data for this report.			

Date	Dilution Ratio Q = QR / QD	Median Flow on QR (m ³ /s)	RBPTS Discharge (m ³ /s)
20-Nov-2025	54	3.4	0.063090197
21-Nov-2025	46	2.92	0.063090197
22-Nov-2025	51	3.21	0.063090197
23-Nov-2025	68	4.32	0.063090197
24-Nov-2025	70	4.41	0.063090197
25-Nov-2025	63	3.99	0.063090197
26-Nov-2025	56	3.51	0.063090197
27-Nov-2025	51	3.2	0.063090197
28-Nov-2025	46	2.88	0.063090197
29-Nov-2025	40	2.53	0.063090197
30-Nov-2025	139	2.2	0.015772549
1-Dec-2025	124	1.95	0.015772549
2-Dec-2025	55	1.74	0.031545098
3-Dec-2025	49	1.54	0.031545098
4-Dec-2025	48	1.52	0.031545098
5-Dec-2025	51	1.61	0.031545098
6-Dec-2025	59	1.87	0.031545098
7-Dec-2025	69	2.19	0.031545098
8-Dec-2025	55	3.46	0.063090197
9-Dec-2025	94	5.96	0.063090197
10-Dec-2025	123	7.79	0.063090197
11-Dec-2025	162	10.2	0.063090197
12-Dec-2025	150	9.47	0.063090197
13-Dec-2025	131	8.24	0.063090197
14-Dec-2025	143	9.04	0.063090197
15-Dec-2025	317	20	0.063090197
16-Dec-2025	352	22.2	0.063090197
17-Dec-2025	322	20.3	0.063090197
18-Dec-2025	239	15.1	0.063090197
19-Dec-2025	184	11.6	0.063090197
20-Dec-2025	146	9.2	0.063090197
21-Dec-2025	109	6.87	0.063090197
22-Dec-2025	88	5.58	0.063090197
23-Dec-2025	75	4.75	0.063090197
24-Dec-2025	61	3.88	0.063090197
25-Dec-2025	51	3.23	0.063090197
26-Dec-2025	43	2.74	0.063090197
27-Dec-2025	37	2.33	0.063090197
28-Dec-2025	33	2.06	0.063090197
29-Dec-2025	30	1.87	0.063090197
30-Dec-2025	27	1.7	0.063090197
31-Dec-2025	37	2.33	0.063090197
1-Jan-2026	44	2.78	0.063090197
2-Jan-2026	42	2.67	0.063090197
3-Jan-2026	48	3	0.063090197
4-Jan-2026	55	3.45	0.063090197
5-Jan-2026	55	3.5	0.063090197
6-Jan-2026	58	3.63	0.063090197
7-Jan-2026	56	3.55	0.063090197
8-Jan-2026	53	3.35	0.063090197

Date	Dilution Ratio Q = QR / QD	Median Flow on QR (m ³ /s)	RBPTS Discharge (m ³ /s)
9-Jan-2026		3.15	0
10-Jan-2026		3.2	0
11-Jan-2026		4.12	0
12-Jan-2026		22.8	0
13-Jan-2026		39.4	0
14-Jan-2026		29.3	0
15-Jan-2026		19.2	0
16-Jan-2026	217	13.7	0.063090197
17-Jan-2026	166	10.5	0.063090197
18-Jan-2026	129	8.15	0.063090197
19-Jan-2026	103	6.5	0.063090197
20-Jan-2026	85	5.36	0.063090197
21-Jan-2026	72	4.54	0.063090197
22-Jan-2026	62	3.93	0.063090197
23-Jan-2026	55	3.5	0.063090197
24-Jan-2026	50	3.18	0.063090197
25-Jan-2026	48	3.05	0.063090197
26-Jan-2026	48	3.02	0.063090197
27-Jan-2026	48	3.01	0.063090197
28-Jan-2026	48	3.04	0.063090197
29-Jan-2026	49	3.1	0.063090197
30-Jan-2026	176	11.1	0.063090197
31-Jan-2026	300	18.9	0.063090197
1-Feb-2026	293	18.5	0.063090197
2-Feb-2026	265	16.7	0.063090197
3-Feb-2026	217	13.7	0.063090197
4-Feb-2026	192	12.1	0.063090197
5-Feb-2026	165	10.4	0.063090197
6-Feb-2026	136	8.56	0.063090197
7-Feb-2026	132	8.33	0.063090197
8-Feb-2026	154	9.72	0.063090197
9-Feb-2026	141	8.92	0.063090197
10-Feb-2026		8.3	0
11-Feb-2026		7.3	0
12-Feb-2026		6.31	0
13-Feb-2026		5.54	0
14-Feb-2026		5.08	0
15-Feb-2026		4.5	0
16-Feb-2026		4.09	0
17-Feb-2026		3.72	0
18-Feb-2026		3.37	0
19-Feb-2026		2.71	0

Date	Dilution Ratio Q = QR / QD	Median Flow on QR (m ³ /s)	RBPTS Discharge (m ³ /s)
20-Feb-2026	25	2.37	0.093615337
21-Feb-2026	26	2.38	0.091052298
22-Feb-2026	28	2.5	0.090665871
23-Feb-2026	27	2.48	0.092316731
24-Feb-2026	19	2.47	0.128417467
25-Feb-2026	19	2.46	0.130260227
26-Feb-2026	38	2.46	0.064759458
27-Feb-2026	38	2.46	0.06536933
28-Feb-2026	37	2.45	0.066008119
1-Mar-2026	37	2.45	0.067025448
2-Mar-2026	36	2.45	0.06723312
3-Mar-2026	36	2.45	0.067364558
4-Mar-2026	36	2.45	0.067601146
5-Mar-2026	36	2.45	0.067990202
6-Mar-2026	36	2.46	0.068305653
7-Mar-2026	36	2.47	0.068589559
8-Mar-2026	36	2.47	0.068518583
9-Mar-2026	36	2.46	0.06860796
10-Mar-2026	36	2.45	0.068762313
11-Mar-2026	36	2.45	0.068271479
12-Mar-2026	22	2.46	0.111298994
13-Mar-2026	18	2.46	0.138945644
14-Mar-2026	17	2.46	0.142667965
15-Mar-2026	17	2.46	0.141064423
16-Mar-2026	18	2.52	0.140062866
17-Mar-2026	20	2.65	0.131968919
18-Mar-2026	66	10.2	0.155688205
19-Mar-2026	132	17.8	0.134489899
20-Mar-2026	137	18.6	0.135296927
21-Mar-2026	122	16.6	0.135869997
22-Mar-2026	98	13.3	0.135988291
23-Mar-2026	76	10.3	0.136240652
24-Mar-2026	64	8.09	0.126180394
25-Mar-2026	56	7.11	0.126180394
26-Mar-2026	48	6.07	0.126180394
27-Mar-2026	42	5.25	0.126180394
28-Mar-2026	37	4.62	0.126180394
29-Mar-2026	32	4.09	0.126180394
30-Mar-2026	29	3.64	0.126180394
31-Mar-2026	26	3.29	0.126180394

Total Iron (mg/L)

Date	RBP1	SP1	SP2	SP3S	SP3C	RBPO	Trigger 3.1	WQG	% Reduction (RBP1 - RBP)	Flow (GPM)
06-Jan-2026	4.40	4.00	3.65	3.14	2.63	<u>2.78</u>	3.1	<u>1.00</u>	36.82%	1000
07-Jan-2026	4.39	3.98	3.75	3.23	2.72	<u>2.81</u>	3.1	<u>1.00</u>	35.99%	1000
08-Jan-2026	4.17	4.11	3.63	3.37	2.64	<u>2.47</u>	3.1	<u>1.00</u>	40.77%	1000
17-Jan-2026	5.14	5.62	4.55	3.95	2.82	<u>2.77</u>	3.1	<u>1.00</u>	46.11%	1000
19-Jan-2026	4.37	4.24	3.73	3.10	2.70	<u>2.99</u>	3.1	<u>1.00</u>	31.58%	1000
20-Jan-2026	4.05	4.22	3.62	4.30	2.74	<u>2.80</u>	3.1	<u>1.00</u>	30.86%	1000
21-Jan-2026	4.96	4.59	4.24	3.60	3.13	<u>3.09</u>	3.1	<u>1.00</u>	37.70%	1000
22-Jan-2026	3.68	3.82	3.72	3.25	2.84	<u>2.86</u>	3.1	<u>1.00</u>	22.28%	1000
26-Jan-2026	3.23	2.99	3.06	2.66	2.39	<u>2.58</u>	3.1	<u>1.00</u>	20.12%	1000
29-Jan-2026	2.98	3.10	2.71	2.64	2.34	<u>2.33</u>	3.1	<u>1.00</u>	21.81%	1000
05-Feb-2026	2.32	2.41	2.71	2.12	1.96	<u>2.04</u>	3.1	<u>1.00</u>	12.07%	1000
09-Feb-2026	2.51	2.40	2.28	2.07	1.96	<u>1.84</u>	3.1	<u>1.00</u>	26.69%	1000
23-Feb-2026	3.07	2.73	2.59	0.40	1.47	<u>1.31</u>	3.1	<u>1.00</u>	57.33%	1500
25-Feb-2026	3.12	3.02	2.90	2.72	1.89	<u>1.73</u>	3.1	<u>1.00</u>	44.55%	2000
02-Mar-2026	3.08	3.13	3.04	2.65	1.86	<u>1.71</u>	3.1	<u>1.00</u>	44.48%	1000
04-Mar-2026	2.78	2.61	2.48	2.13	1.57	<u>1.56</u>	3.1	<u>1.00</u>	43.88%	1000
09-Mar-2026	2.87	2.68	2.47	2.10	1.57	<u>1.59</u>	3.1	<u>1.00</u>	44.60%	1000
11-Mar-2026	3.09	2.93	2.55	2.23	1.61	<u>1.60</u>	3.1	<u>1.00</u>	48.22%	1000
16-Mar-2026	3.02	2.54	2.54	2.42	1.78	<u>1.78</u>	3.1	<u>1.00</u>	41.06%	2200
18-Mar-2026	3.23	2.90	2.83	0.84	1.90	<u>1.89</u>	3.1	<u>1.00</u>	41.49%	2500
23-Mar-2026	2.74	2.43	2.29	2.13	1.80	<u>1.76</u>	3.1	<u>1.00</u>	35.77%	2100
25-Mar-2026	2.98	2.75	2.57	2.35	1.99	<u>1.96</u>	3.1	<u>1.00</u>	34.23%	2000
30-Mar-2026	2.99	2.83	2.71	2.50	2.08	<u>2.07</u>	3.1	<u>1.00</u>	30.77%	2000
01-Apr-2026	3.07	2.99	2.75	2.57		<u>2.34</u>	3.1	<u>1.00</u>	23.78%	2000
08-Apr-2026	2.93					<u>2.18</u>	3.1	<u>1.00</u>	25.60%	1000
14-Apr-2026	3.08					<u>1.92</u>	3.1	<u>1.00</u>	37.66%	1000
21-Apr-2026	3.83					<u>2.26</u>	3.1	<u>1.00</u>	40.99%	1000
27-Apr-2026	3.87					<u>2.02</u>	3.1	<u>1.00</u>	47.80%	1000
04-May-2026	4.64	4.17	3.79	2.76		<u>1.49</u>	3.1	<u>1.00</u>	67.89%	500
11-May-2026	4.56					<u>1.74</u>	3.1	<u>1.00</u>	61.84%	500
19-May-2026	5.39					1.07	3.1	<u>1.00</u>	80.15%	300

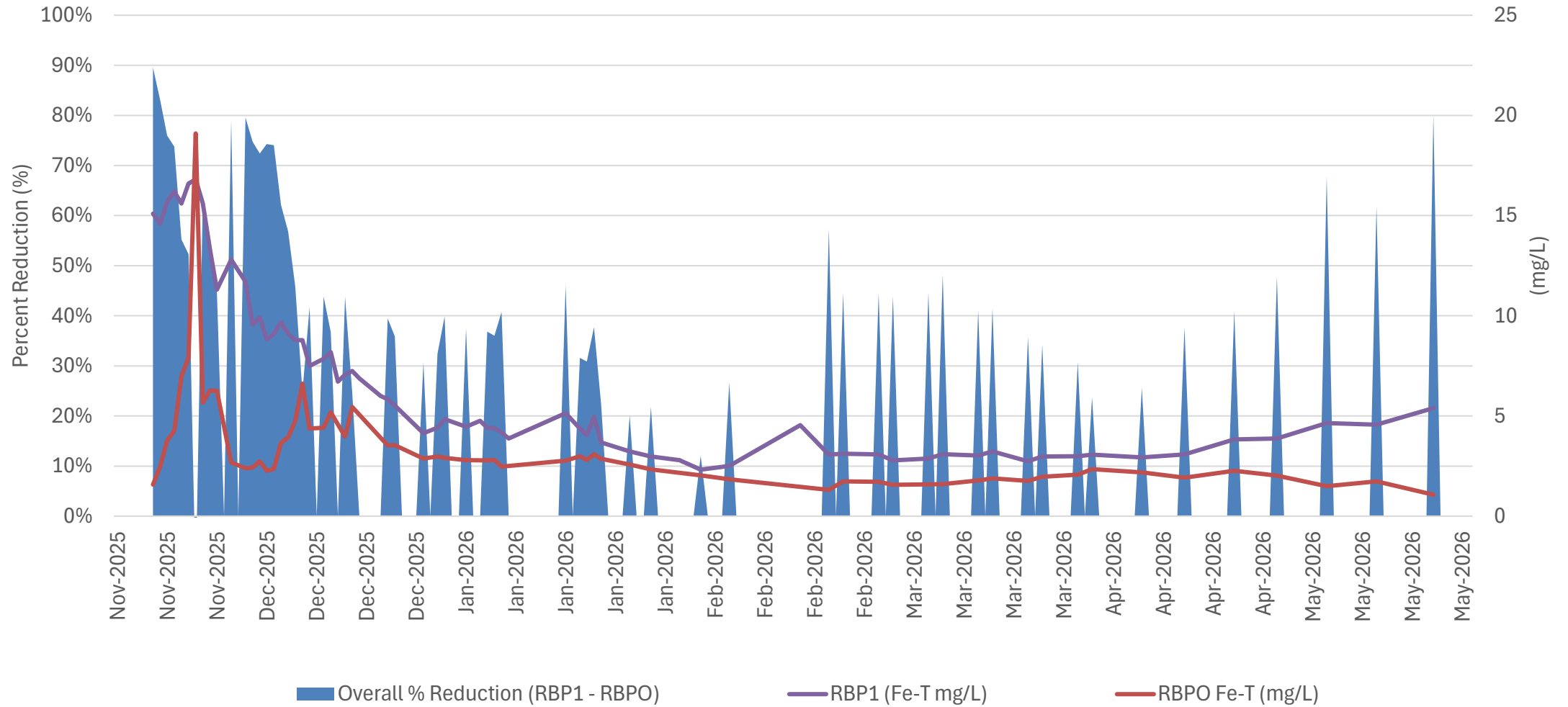
Dissolved Iron (mg/L)

Date	RBP1	SP1	SP2	SP3S	SP3C	RBPO	WQG	% Reduction (RBP1 -RBP)	Flow (GPM)
06-Jan-2026	4.79	2.73	1.19	0.20	0.12	0.11300	<u>0.35</u>	97.64%	1000
07-Jan-2026	4.82	2.68	1.21	0.25	0.16	0.13100	<u>0.35</u>	97.28%	1000
08-Jan-2026	0.10	2.81	1.17	0.23	0.15	0.12800	<u>0.35</u>	-23.08%	1000
17-Jan-2026	5.23	3.91	1.76	0.60	0.41	<u>0.3830</u>	<u>0.35</u>	92.68%	1000
19-Jan-2026	4.39	3.17	1.65	0.39	0.26	0.23300	<u>0.35</u>	94.69%	1000
20-Jan-2026	3.99	3.47	2.12	1.01	0.85	<u>0.8080</u>	<u>0.35</u>	79.75%	1000
21-Jan-2026	4.67	3.74	2.49	1.13	0.91	<u>0.8610</u>	<u>0.35</u>	81.56%	1000
22-Jan-2026	3.83	3.17	2.15	0.98	0.79	<u>0.7330</u>	<u>0.35</u>	80.86%	1000
26-Jan-2026	3.29	2.72	1.80	0.81	0.64	<u>0.6260</u>	<u>0.35</u>	80.97%	1000
29-Jan-2026	3.22	2.68	1.80	0.77	0.63	<u>0.5970</u>	<u>0.35</u>	81.46%	1000
05-Feb-2026	2.33	1.96	1.37	0.68	0.59	<u>0.5420</u>	<u>0.35</u>	76.74%	1000
09-Feb-2026	2.59	2.04	1.41	0.70	0.59	<u>0.5790</u>	<u>0.35</u>	77.64%	1000
23-Feb-2026	2.99	2.26	1.40	2.30	0.23	0.18000	<u>0.35</u>	93.98%	1500
25-Feb-2026	3.40	2.65	2.06	0.82	0.56	<u>0.4900</u>	<u>0.35</u>	85.59%	2000
02-Mar-2026	3.10	2.29	1.12	0.14	0.06	0.05380	<u>0.35</u>	98.26%	1000
04-Mar-2026	2.72	1.87	0.97	0.16	0.07	0.05680	<u>0.35</u>	97.91%	1000
09-Mar-2026	3.19	2.05	1.03	0.12	0.06	0.05610	<u>0.35</u>	98.24%	1000
11-Mar-2026	3.09	2.07	1.09	0.15	0.08	0.06360	<u>0.35</u>	97.94%	1000
16-Mar-2026	3.22	2.50	1.73	0.79	0.53	<u>0.5390</u>	<u>0.35</u>	83.26%	2200
18-Mar-2026	3.09	2.28	1.61	2.40	0.56	<u>0.5480</u>	<u>0.35</u>	82.27%	2500
23-Mar-2026	2.73	2.13	1.41	0.72	0.56	<u>0.5330</u>	<u>0.35</u>	80.48%	2100
25-Mar-2026	2.88	2.29	1.67	0.88	0.66	<u>0.6620</u>	<u>0.35</u>	77.01%	2000
30-Mar-2026	2.94	2.36	1.60	0.75	0.60	<u>0.5310</u>	<u>0.35</u>	81.94%	2000
01-Apr-2026	3.19	2.55	1.83	0.81	#N/A	<u>0.6290</u>	<u>0.35</u>	80.28%	2000
08-Apr-2026	3.34	#N/A	#N/A	#N/A	#N/A	0.13500	<u>0.35</u>	95.96%	1000
14-Apr-2026	3.36	#N/A	#N/A	#N/A	#N/A	0.11200	<u>0.35</u>	96.67%	1000
21-Apr-2026	3.98	#N/A	#N/A	#N/A	#N/A	0.11500	<u>0.35</u>	97.11%	1000
27-Apr-2026	4.14	#N/A	#N/A	#N/A	#N/A	0.08760	<u>0.35</u>	97.88%	1000
04-May-2026	4.56	2.11	0.67	0.01	#N/A	0.00820	<u>0.35</u>	99.82%	500
11-May-2026	5.10	#N/A	#N/A	#N/A	#N/A	0.00250	<u>0.35</u>	99.95%	500
19-May-2026	5.71	#N/A	#N/A	#N/A	#N/A	0.00250	<u>0.35</u>	99.96%	300

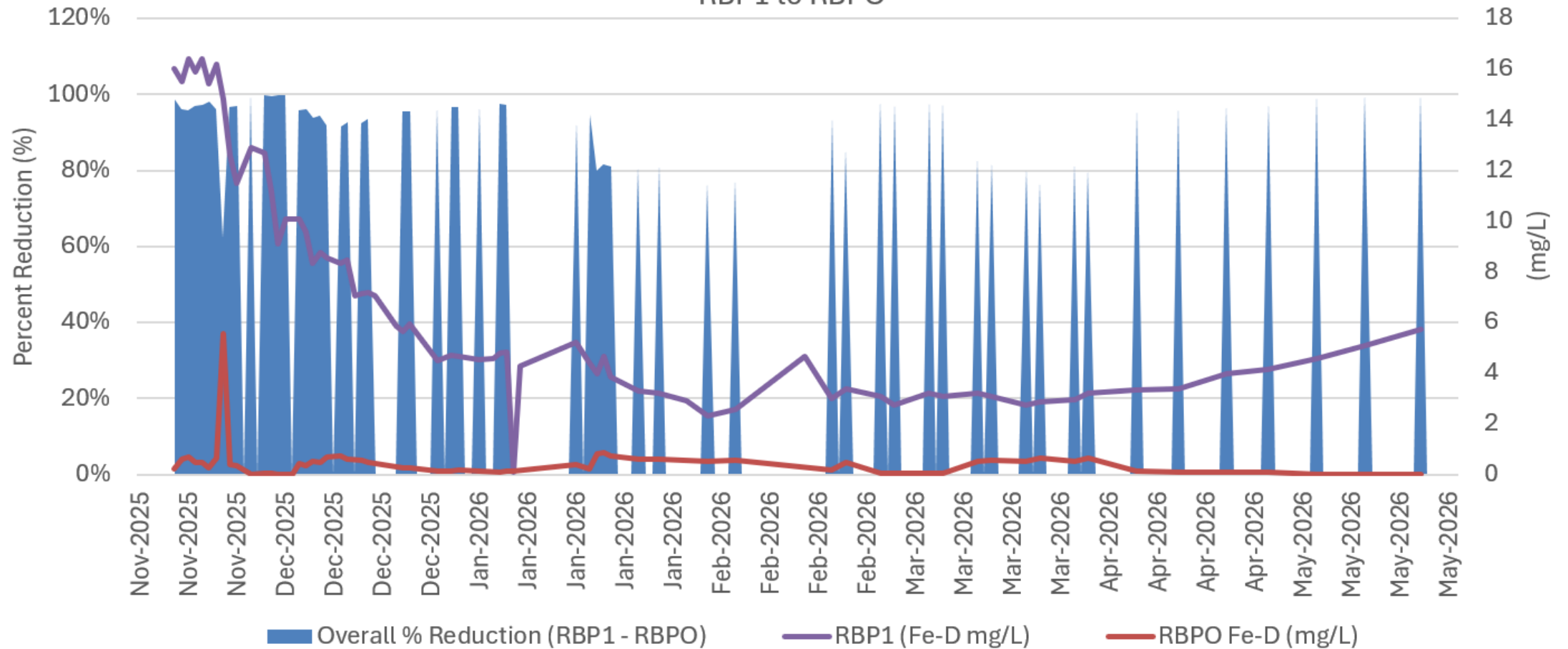
Total Iron (mg/L)								
Date	RBPO	WB	QRUS (10m)	QRDS (40m)	QRDSA (100m)	QRDSB (400m)	QRDS1 (1225m)	BC WQG
20-Nov-2025	1.58	0.0348				0.0614	0.061	1.00
21-Nov-2025	2.48	0.0322				0.0606	0.0661	1.00
22-Nov-2025	3.77	0.0348				0.0727	0.0747	1.00
23-Nov-2025	4.25	0.0329				0.0837	0.0869	1.00
24-Nov-2025	6.98	0.0303		0.644		0.0849	0.0795	1.00
25-Nov-2025	7.92	0.0313				0.0976	0.102	1.00
26-Nov-2025	19.1	0.0325		0.607		0.0888	0.0878	1.00
27-Nov-2025	5.67	0.0337		0.291		0.108	0.165	1.00
02-Dec-2025		0.032				0.0582	0.0664	1.00
04-Dec-2025	2.42	0.0358		0.09				1.00
05-Dec-2025	2.74	0.0382		0.108		0.0644	0.0763	1.00
06-Dec-2025	2.27	0.038		0.0778		0.0577	0.0846	1.00
07-Dec-2025	2.36	0.0415		0.0952		0.112	0.0906	1.00
08-Dec-2025	3.66	0.0386		0.47		0.134	0.105	1.00
09-Dec-2025	3.93	0.047		0.0965		0.091	0.0842	1.00
10-Dec-2025	4.76	0.058		0.18	0.132	0.081	0.0825	1.00
11-Dec-2025	6.61	0.0632		0.264	0.124	0.0815	0.0839	1.00
12-Dec-2025	4.37	0.0577		0.288	0.134	0.0705	0.0719	1.00
14-Dec-2025	4.41	0.068		0.255	0.151	0.0943	0.095	1.00
15-Dec-2025	5.18	0.06		0.224	0.142	0.108	0.115	1.00
17-Dec-2025	3.97	0.0277		0.0487	0.0304	0.0378	0.0341	1.00
18-Dec-2025	5.45	0.0529		0.174	0.0995	0.0874	0.0849	1.00
19-Dec-2025		0.0949		0.224	0.0966	0.0706	0.0656	1.00
22-Dec-2025		0.0402		0.321	0.127	0.0676	0.073	1.00
24-Dec-2025	3.54	0.0324	0.0512	0.128	0.13	0.0806	0.0992	1.00
28-Dec-2025	2.87	0.117	0.0363	0.236	0.219	0.129	0.108	1.00
30-Dec-2025	2.98	0.0352	0.0347	0.106	0.17	0.0842	0.139	1.00
31-Dec-2025	2.91	0.0291	0.0344	0.074	0.14	0.081	0.0939	1.00
06-Jan-2026	2.78	0.0559	0.0417	0.065	0.109	0.0772	0.0804	1.00
07-Jan-2026	2.81	0.0394	0.039	0.0815	0.107	0.072	0.0742	1.00
08-Jan-2026	2.47	0.0344	0.0425	0.0815	0.111	0.0777	0.0893	1.00
19-Jan-2026	2.99	0.0404	0.049	0.098	0.101		0.0718	1.00
29-Jan-2026	2.33	0.0503	0.0337	0.159	0.0537	0.0354		1.00
02-Feb-2026		0.0406	0.051	0.198	0.106		0.0575	1.00
05-Feb-2026	2.04	0.0325	0.031	0.191	0.104	0.0581		1.00
09-Feb-2026	1.84	0.0298	0.0286	0.178	0.107	0.0716		1.00
23-Feb-2026	1.31	0.0564	0.0555	0.0951	0.112			1.00
25-Feb-2026	1.73	0.0188	0.0187	0.0863	0.0297			1.00
02-Mar-2026	1.71	0.0379	0.0405	0.121	0.102	0.0983		1.00
04-Mar-2026	1.56	0.031	0.0366	0.116	0.106	0.0927		1.00
09-Mar-2026	1.59	0.0338	0.0404	0.0784	0.0908	0.0743		1.00
11-Mar-2026	1.6	0.0355	0.0361	0.116	0.115	0.0754		1.00
16-Mar-2026	1.78	0.0366	0.0412	0.225	0.233	0.139		1.00
18-Mar-2026	1.89	0.028	0.0567	0.105	0.156	0.057		1.00
23-Mar-2026	1.76	0.0479	0.0304	0.117	0.0989	0.101		1.00
25-Mar-2026	1.96	0.0236	0.0293	0.187	0.112	0.0682		1.00
30-Mar-2026	2.07	0.0268				0.0815	0.0945	1.00
08-Apr-2026	2.18	0.0276				0.0646	0.0887	1.00
14-Apr-2026	1.92	0.0337				0.082	0.0856	1.00
21-Apr-2026	2.26	0.0344				0.0892	0.096	1.00
27-Apr-2026	2.02	0.0339				0.093	0.0974	1.00

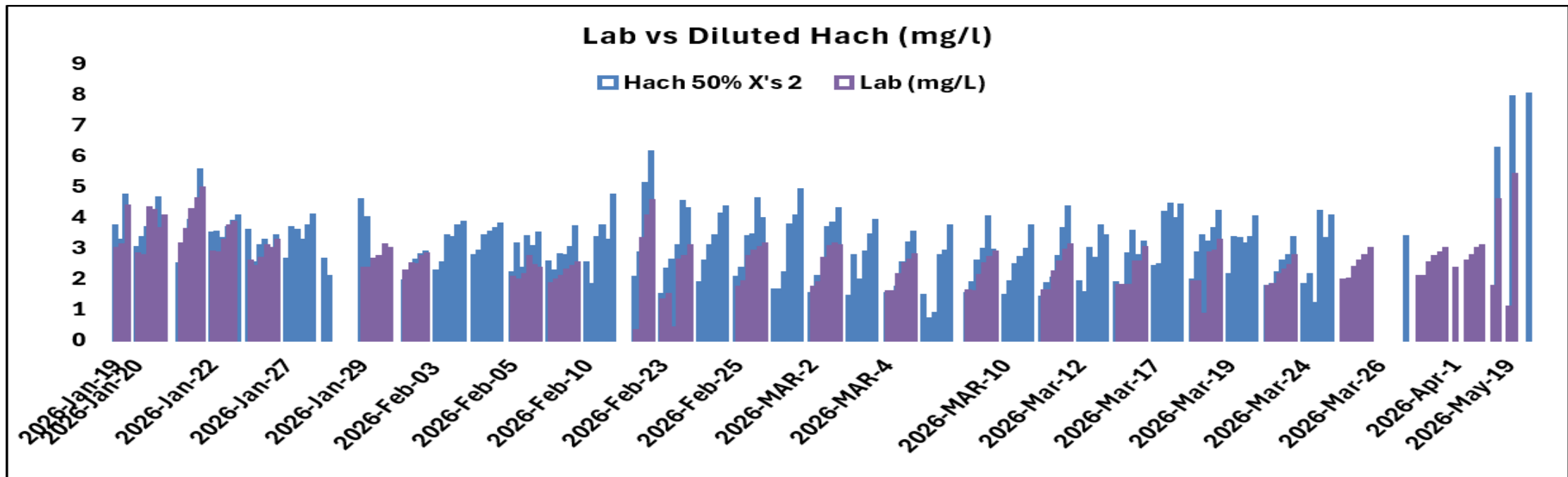
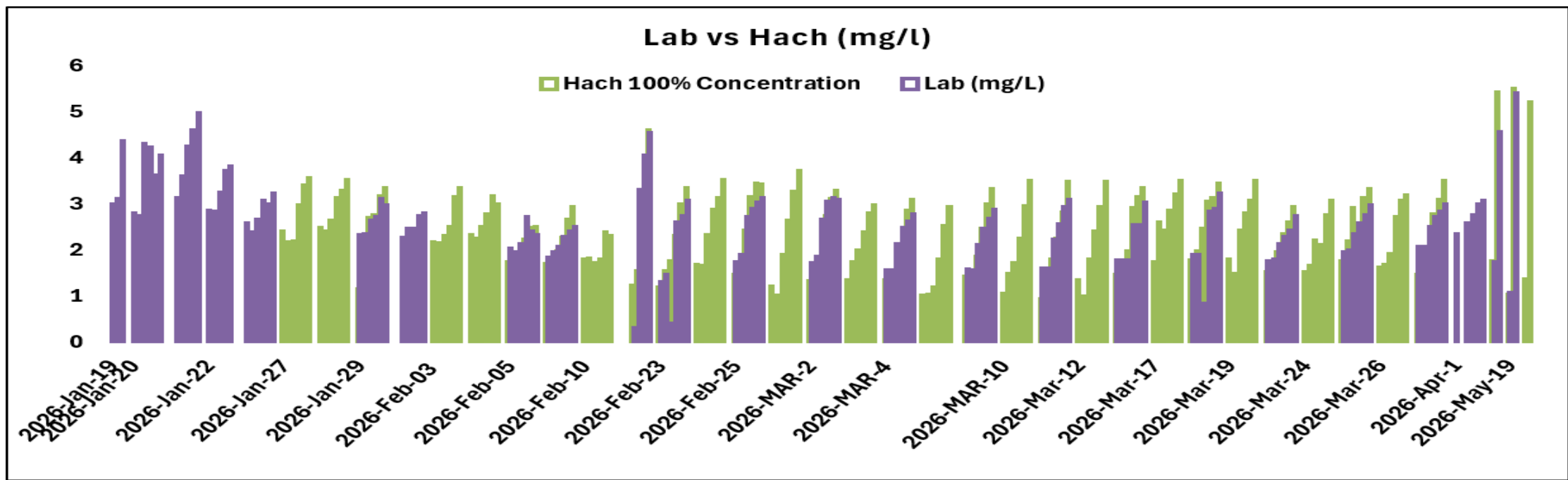
Dissolved Iron (Fe)								
Date	RBPO	WB	QRUS (10m)	QRDS (40m)	QRDSA (100m)	QRDSB (400m)	QRDS1 (1225m)	BC WQG
20-Nov-2025	0.215	0.023				0.0255	0.0321	0.35
21-Nov-2025	0.615	0.028				0.031	0.0386	0.35
22-Nov-2025	0.678	0.0241				0.0319	0.041	0.35
23-Nov-2025	0.49	0.0223				0.0307	0.0355	0.35
24-Nov-2025	0.462	0.0225		0.0611		0.0278	0.0348	0.35
25-Nov-2025	0.277	0.0211				0.0257	0.0311	0.35
26-Nov-2025	0.638	0.0216		0.0666		0.028	0.0347	0.35
27-Nov-2025	5.57	0.0218		0.0442		0.0288	0.0345	0.35
02-Dec-2025		0.0224				0.0276	0.0404	0.35
04-Dec-2025	0.054	0.0245		0.0243				0.35
05-Dec-2025	0.023	0.0239		0.0284		0.0284	0.0457	0.35
06-Dec-2025	0.014	0.0251		0.0288		0.03	0.0502	0.35
07-Dec-2025	0.029	0.0235		0.0281		0.0303	0.041	0.35
08-Dec-2025	0.428	0.0258		0.0533		0.0344	0.0425	0.35
09-Dec-2025	0.364	0.0327		0.0398		0.0359	0.0376	0.35
10-Dec-2025	0.528	0.0412		0.0431	0.04	0.0329	0.0376	0.35
11-Dec-2025	0.485	0.0471		0.0506	0.0395	0.0359	0.0377	0.35
12-Dec-2025	0.695	0.0429		0.0584	0.0407	0.0343	0.0364	0.35
14-Dec-2025	0.714	0.0338		0.0423	0.0377	0.0277	0.0321	0.35
15-Dec-2025	0.619	0.0387		0.04	0.0366	0.0311	0.0357	0.35
17-Dec-2025	0.547	0.0315		0.0327	0.0269	0.0243	0.0251	0.35
18-Dec-2025	0.459	0.0308		0.0317	0.0271	0.0217	0.0231	0.35
19-Dec-2025		0.0274		0.0347	0.0251	0.0222	0.0242	0.35
22-Dec-2025		0.0223		0.0285	0.0267	0.0204	0.0258	0.35
24-Dec-2025	0.27	0.0159	0.0197	0.0246	0.0264	0.0215	0.0352	0.35
28-Dec-2025	0.15	0.0197	0.0235	0.0292	0.0284	0.0241	0.0333	0.35
30-Dec-2025	0.153	0.0193	0.0211	0.0246	0.0291	0.0253	0.0348	0.35
31-Dec-2025	0.163	0.0181	0.022	0.0252	0.029	0.0269	0.0378	0.35
06-Jan-2026	0.113	0.0337	0.0253	0.0273	0.0309	0.0279	0.0345	0.35
07-Jan-2026	0.131	0.0581	0.026	0.027	0.0283	0.0291	0.0392	0.35
08-Jan-2026	0.128	0.0605	0.0261	0.0279	0.0288	0.0277	0.0357	0.35
19-Jan-2026	0.233	0.0219	0.0171	0.0224	0.0207		0.0234	0.35
29-Jan-2026	0.597	0.0213	0.0209	0.0484	0.208	0.111		0.35
02-Feb-2026		0.0224	0.0211	0.0555	0.0387		0.0265	0.35
05-Feb-2026	0.542	0.0238	0.0185	0.067	0.037	0.0256		0.35
09-Feb-2026	0.579	0.0176	0.0182	0.0544	0.0358	0.025		0.35
23-Feb-2026	0.18	0.0299	0.0325	0.0341	0.0365			0.35
25-Feb-2026	0.49	0.0305	0.0304	0.0439	0.0667			0.35
02-Mar-2026	0.0538	0.0254	0.0251	0.0262	0.0295	0.0309		0.35
04-Mar-2026	0.0568	0.0234	0.0243	0.0245	0.0257	0.0266		0.35
09-Mar-2026	0.0561	0.0262	0.0245	0.0257	0.0257	0.0294		0.35
11-Mar-2026	0.0636	0.0245	0.0247	0.0254	0.0263	0.0256		0.35
16-Mar-2026	0.539	0.0243	0.0247	0.0913	0.0718	0.0457		0.35
18-Mar-2026	0.548	0.0155	0.0307	0.0395	0.0523	0.0219		0.35
23-Mar-2026	0.533	0.0272	0.0155	0.0343	0.0331	0.0419		0.35
25-Mar-2026	0.662	0.0156	0.0155	0.0431	0.0415	0.0264		0.35
30-Mar-2026	0.531	0.0165				0.0298	0.0366	0.35
08-Apr-2026	0.135	0.0193				0.0216	0.0321	0.35
14-Apr-2026	0.112	0.018				0.021	0.0332	0.35
21-Apr-2026	0.115	0.0189				0.0222	0.0335	0.35
27-Apr-2026	0.0876	0.0194				0.0218	0.0328	0.35

Total Iron - Overall Percent Reduction,
RBP1 to RBPO



Dissolved Iron - Overall Percent Reduction,
RBP1 to RBPO





Date: November 21, 2025
Contact: Kathleen Russell
Phone: 250-286-3224 Ext 225
Environmental Manager for Quinsam Coal Mine
Mines Act Permit: C-172
Environmental Management Act: PE:7008

Subject: Notification of Commissioning of River Barrier Pillar Treatment System (RBPTS) – Quinsam Coal Mine and Dangerous Goods Incident Report (DGIR), (254503).

To Whom it May Concern:

This letter serves as formal notification that Quinsam Coal Mine (QCM), located approximately 25 km southwest of Campbell River, B.C., will commence commissioning of the full-scale River Barrier Pillar Treatment System (RBPTS) for discharge into the Quinsam River at 1000 Gallons per minute (GPM). The current Quinsam River discharge rate is 88,128 GPM recorded from Water Survey of Canada upstream of Middle Quinsam Lake, at Argonaut Bridge. This indicates that the Quinsam River has substantial dilution capacity during commissioning with high flow conditions.

The authorization permits associated with the Quinsam Mine Site include C-172 (Mines Act) and PE:7008 (Environmental Management Act). The RBPTS discharge is proceeding under the Chief Inspector's authority granted by Section 17 of the Mines Act. This notification is related to Dangerous Goods Incident Report (DGIR **254503**).

The bench test for the RBP commissioning was communicated to ENV in the initial spill report dated 2025-02-26 and end of spill report dated 2025-03-29.

Background:

The Quinsam Coal Mine is currently in Care and Maintenance under the management of MNP LTD as Receiver Manager. In 2024 and 2025, three boreholes were drilled into the River Barrier Pillar (RBP) of the 2-North flooded mine void to conduct a passive dewatering test, as outlined in the report “2-North Mine Passive Dewatering Test Action Plan” prepared by Lorax Environmental Services, February 2025 with Appendix A prepared by SRK Consulting Canada Incorporated, September 2024. These reports were submitted on February 27, 2025, with the Notification for Quinsam Coal Mine - Commencement of River Barrier (RBP) Well Discharge Pilot Test into Quinsam River, (DGIR 250786).

The commissioning process will follow the Trigger Response Plan described in Lorax (Feb. 2025), Section 5.3, Triggers and Actions for Mine Water and/or Seepage Discharge to Receiving Environment, and Section 5.4 Triggers and Actions for Water Quality in the Quinsam River.

Figure 1 below displays the River Barrier Pillar Full-Scale Treatment System and Figure 2 displays the RBP outlet channel discharge location into the Quinsam River with the proposed receiving environment monitoring locations.

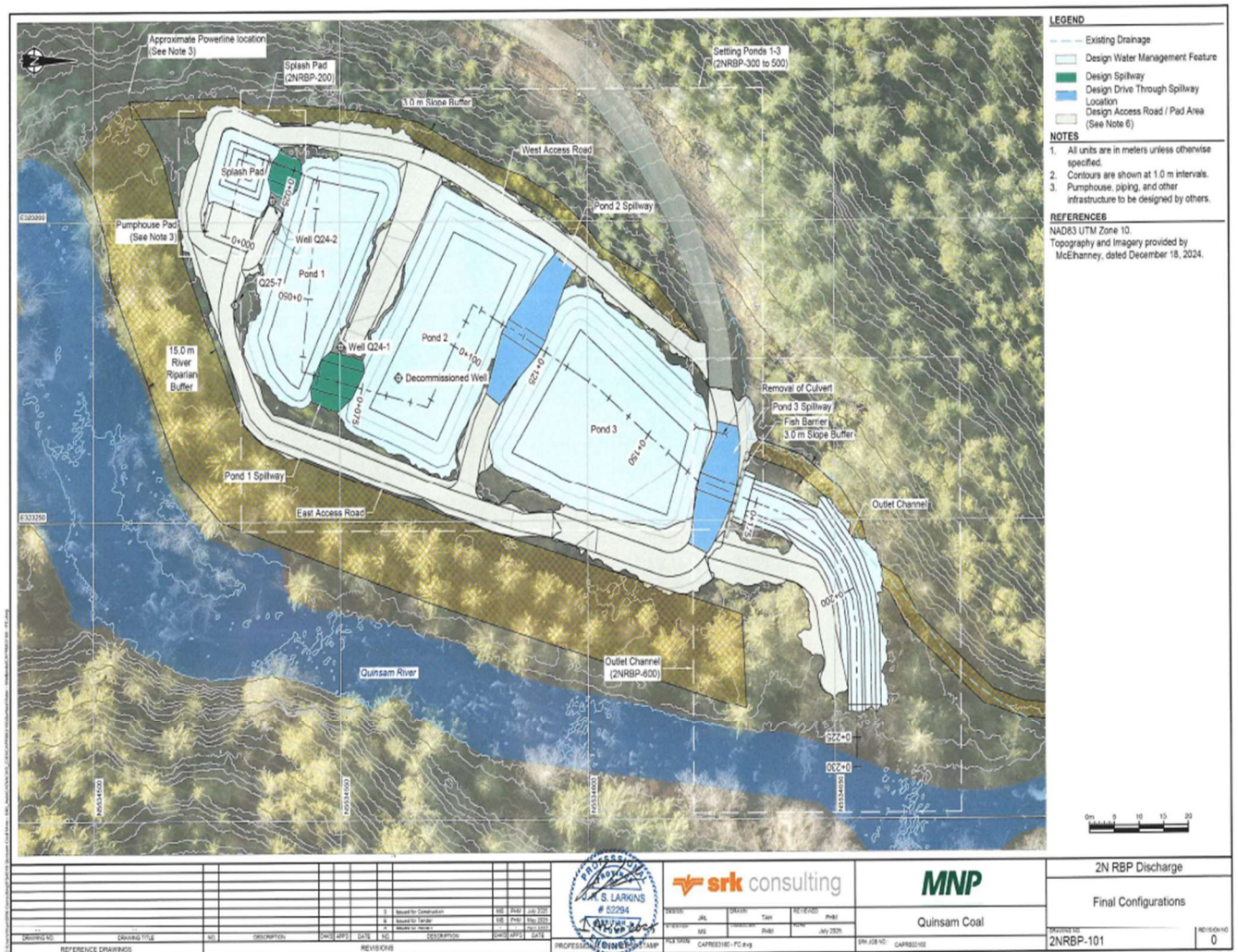


Figure 1: 2-North River Barrier Pillar Full-Scale Treatment System

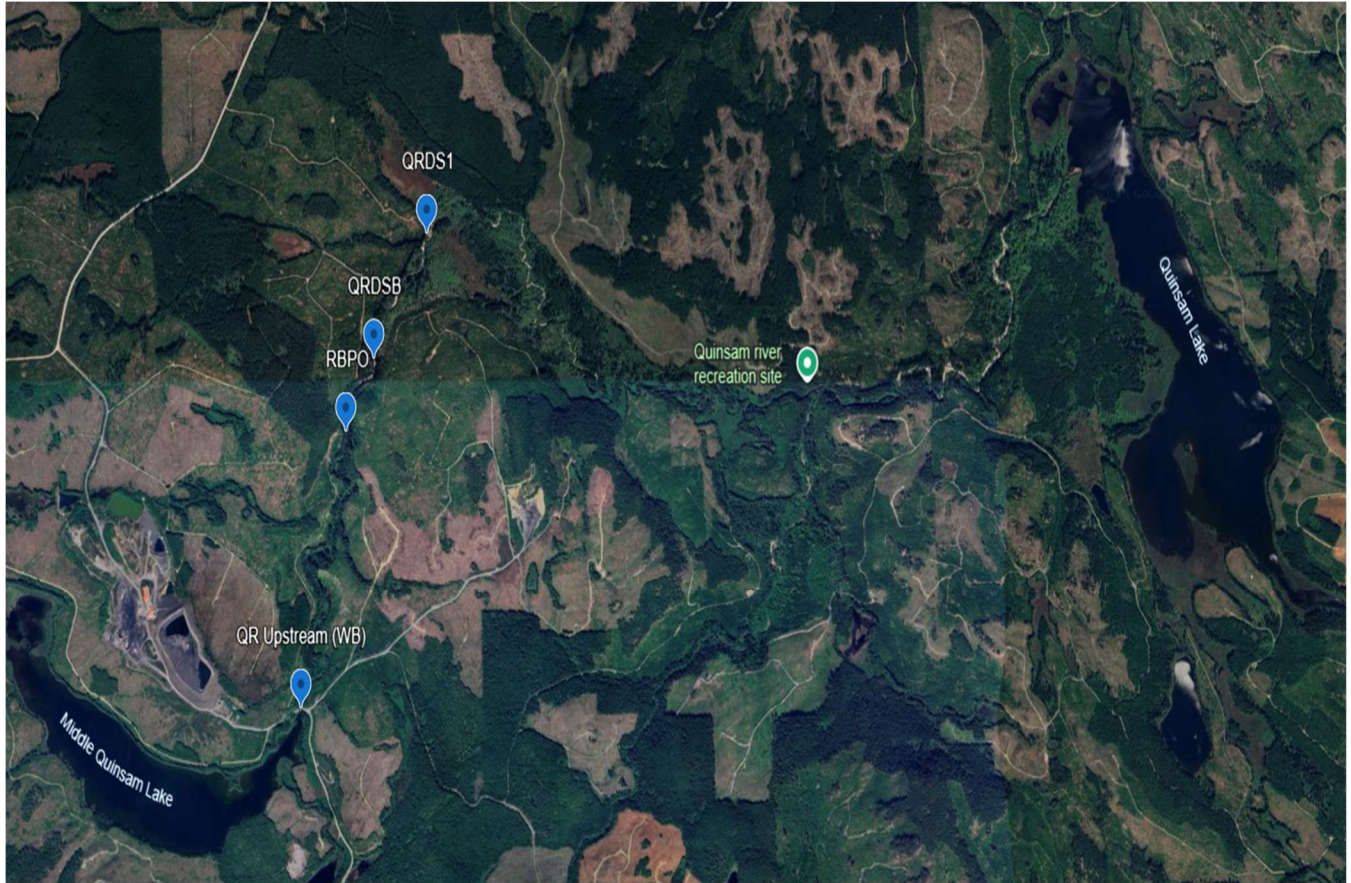


Figure 2: Monitoring Locations

Commissioning Details:

- Start Date: November 19, 2025
- Discharge into Quinsam River: November 20, 2025
- Initial Flow Rate: 1,000 gallons per minute (GPM) for one week
- Discharge Location: Quinsam River via RBPTS
- Monitoring upstream of RBPO discharge and downstream on the Quinsam River
- Authorization: Proceeding under Chief Inspector's authority granted by Section 17 of the Mines Act; associated permits include C-172 (Mines Act) and PE:7008 (Environmental Management Act).

Monitoring and Sampling:

The commissioning process will follow the Trigger Response Plan described in Lorax (Feb. 2025), Section 5.3, Triggers and Actions for Mine Water and/or Seepage Discharge to Receiving Environment, and Section 5.4 Triggers and Actions for Water Quality in the Quinsam River.

Comprehensive pre-discharge sampling conducted on November 12, 2025, from the borehole, confirmed 100% survival in toxicity tests at 100% mine water concentration, (48-hour Acute Daphnia Magna and 96-hour Acute Rainbow Trout). Further testing occurred from the Borehole

(mine water prior to settling or aeration) for water chemistry on November 17, 2025. Both November 12th and 17th had similar results for water chemistry, Table 1.

Table 1: Water Chemistry Results from the mine water

RBP1 Borehole			
Parameter	Units	12-Nov-2025	17-Nov-2025
Total Suspended Solids	mg/L	28	23
Dissolved Sulphate (SO4)	mg/L	750	750
Dissolved Iron (Fe)	mg/L	16.3	15.8
Total Iron (Fe)	mg/L	14.2	16.2

Monitoring will include daily sampling from the borehole, treatment system and at the discharge outlet; with daily sampling upstream and downstream in the Quinsam River. Toxicity testing (48-hour Acute Daphnia Magna and 96-hour Acute Rainbow Trout) will be performed at RBP outlet into Quinsam River (RBPO), with commissioning. Analytical results will be compared to trigger thresholds in Lorax (Feb. 2025). This monitoring program will be adapted after commissioning has occurred and the system has reached optimal water quality and discharge rates.

Table 2 below, describes the locations of the receiving environment sites and distance from the RBPO.

Table 2: Receiving Environment Monitoring Locations

Site Name	EMS ID	Station Code	Location Degrees Minutes Seconds (DMS)	Approximate Distance from RBPO (m)
Upstream of Discharge on Quinsam River	900504	WB	49°55'33"N 125°28'01"W	1954
River Barrier Pillar Outlet	N/A	RBPO	49°56'16"N 125°27'46"W	N/A
Quinsam River Downstream of RBPO	N/A	QRDSB	49°56'26"N 125°27'35"W	400
Quinsam River Downstream of QRDSB	E286930	QRDS1	49°56'46"N 125°27'17"W	1225

Trigger Thresholds:

The following tables summarize the trigger thresholds for mine water and Quinsam River monitoring stations:

Table 3: Trigger thresholds for 2-North mine water

Parameter of Interest	Unit	Trigger 1	Trigger 2
Field Dissolved Oxygen	mg/L	<6.99	-
Field pH	-	<6.99 or >9.0	-
TSS	mg/L	20	25
SO ₄	mg/L	1,057	1,321
Dissolved As	mg/L	0.073	0.091
Total Fe	mg/L	2.5	3.1
Acute Toxicity	-	Mortality in >10% of test organism	Mortality in ≥50% test organisms

Table 4: Trigger concentrations for parameters of interest at Quinsam River station QRDS1

Parameter of Interest	Unit	Trigger 1	Trigger 2
TSS	mg/L	80% of WQG	WQG
SO ₄	mg/L	174	218
Cl	mg/L	120	150
T-Al*	mg/L	0.063	0.079
T-As*	mg/L	0.004	0.005
T-B	mg/L	0.96	1.2
D-Cd	mg/L	0.000077	0.000096
T-Co	mg/L	0.0032	0.004
T-Cr	mg/L	0.002	0.0025
D-Cu	mg/L	0.00080	0.0010
T-F*†	mg/L	0.72	0.90
T-Fe*	mg/L	0.8	1.00
T-Mn*	mg/L	0.604	0.755
D-Ni*	mg/L	0.00064	0.0008
T-Se	mg/L	0.0016	0.002
D-Zn*	mg/L	0.0038	0.0048

*Triggers shown are example values calculated based on WB 25th percentile hardness (34 mg/L), DOC (1.5 mg/L), and median pH (7.2; 25th percentile pH would not necessarily be more conservative across all guidelines) for 2020-2023 dataset. **Trigger 1 based on WB maximum concentration in 2020-2023 dataset; Trigger 2 based on WB maximum concentration + 20% for 2020 - 2023 dataset. † Trigger based on BC short-term WQG as a BC long-term WQG has not been approved. All other triggers are based on the BC long-term WQG.

We trust that this information meets your requirements. Please contact Kathleen Russell should you require clarification.

Date: December 19, 2025
Contact: Kathleen Russell
Phone: 250-286-3224 Ext 225
Environmental Manager for Quinsam Coal Mine
Mines Act Permit: C-172
Environmental Management Act: PE:7008

Subject: Notification of Commissioning of River Barrier Pillar Treatment System (RBPTS) – Quinsam Coal Mine and Dangerous Goods Incident Report (DGIR), (254503).

To Whom it May Concern:

This letter is a 30-day update regarding DGIR 254503.

This notification relates to planned and controlled commissioning activity associated with the River Barrier Pillar Treatment System (RBPTS). This DGIR submission is intended to provide an update to regulators and does not relate to an uncontrolled spill or emergency release.

Commissioning of the RBPTS is on-going, and will continue into January 2026.

The following series of activities has occurred to date:

- Nov 17 - toxicity tests collected from borehole RBP1 (100% survival)
- Nov 19 - valve was opened to fill new ponds
- Nov 20 - discharge initiated at 1,000 gpm – toxicity test collected (100% survival)
- Nov 21 - initial DGIR notification sent out
- Nov 29 - flows were reduced to 250 gpm due to high Fe-T at RBPO (subsequent monitoring indicates the high result was a sampling error)
- Dec 1 - flows increased to 500 gpm
- Dec 3 - toxicity test collected (100% survival)
- Dec 9 - flows increased to 1,000 gpm
- Dec 16 - toxicity test collected (results pending)

Active monitoring of the RBPTS and multiple locations in the Quinsam River is being conducted. Water quality in the Quinsam River for parameters of interest (i.e. arsenic, iron, and sulphate) have remained in low concentrations since discharge was initiated, below both Federal and Provincial guidelines.

Flow conditions in the Quinsam River have remained high (e.g. 80,000 to 400,000 gpm), providing substantial dilution capacity (>80:1), which helps minimize risks in the river.

RBPTS flow into Quinsam River is currently planned to remain at 1,000 gpm into early January, unless monitoring results indicate a need to reduce flow.

Optimizations of the RBPTS are being considered, and testing will continue into January.

We will continue to provide updates in 30 day intervals or report the final end of spill if commissioning is concluded before the end next 30 day reporting window and when data are available.

Date: January 23rd, 2026
Contact: Kathleen Russell
Phone: 250-286-3224 Ext 225
Environmental Manager for Quinsam Coal Mine
Mines Act Permit: C-172
Environmental Management Act: PE:7008

Subject: Notification of Commissioning of River Barrier Pillar Treatment System (RBPTS) – Quinsam Coal Mine and Dangerous Goods Incident Report (DGIR), (254503).

To Whom it May Concern:

This letter is a 30-day update regarding DGIR 254503.

This notification relates to planned and controlled commissioning activity associated with the River Barrier Pillar Treatment System (RBPTS). This DGIR submission is intended to provide an update to regulators and does not relate to an uncontrolled spill or emergency release.

Commissioning of the RBPTS is on-going, and will continue into 2026.

The following series of activities has occurred to date:

- Nov 17 - toxicity tests collected from borehole RBP1 (100% survival)
- Nov 19 - valve was opened to fill new ponds
- Nov 20 - discharge initiated at 1,000 gpm – toxicity test collected (100% survival)
- Nov 21 - initial DGIR notification sent out
- Nov 29 - flows were reduced to 250 gpm due to high Fe-T at RBPO (subsequent monitoring indicates the high result was a sampling error)
- Dec 1 - flows increased to 500 gpm
- Dec 3 - toxicity test collected (100% survival)
- Dec 9 - flows increased to 1,000 gpm
- Dec 16 - toxicity test collected (100% survival)
- Jan 6 – toxicity test collected (100% survival)
- Jan 8 - dye test performed that confirmed ponds short circuiting, low retention time
- Jan 8 – closed valves for construction
- Jan 9 to 16 - baffles installed in ponds 1 and 2
- Jan 16 – valves open started filling ponds
- Jan 19 to 20 - dye test performed to confirm baffles increased retention time
- Jan 19 – flows increased to 2000 gpm
- Jan 22 – toxicity test collected (results pending)

Active monitoring of the RBPTS and multiple locations in the Quinsam River is being conducted. Water quality in the Quinsam River for parameters of interest (i.e. arsenic, iron, and sulphate) have remained in low concentrations since discharge was initiated, below Federal and Provincial guidelines.

Flow conditions in the Quinsam River have remained high (e.g. 80,000 to 600,000 gpm), providing substantial dilution capacity (>80:1), which helps minimize risks in the river.

RBPTS flow into Quinsam River has been increased from 1000 gpm to 2000 gpm, with a target discharge goal of 3000 GPM planned, if results remain favourable.

Optimizations (*i.e.*, baffles) of the RBPTS have been performed with more planned for Pond 3 in the coming months.

We will continue to provide updates in 30-day intervals with final details provided in the Annual Water Quality Monitoring Report once commissioning is concluded.

For further enquiries please contact Kathleen Russell.

Sincerely,

Kathleen Russell E.P. BSc.

Environmental Manager

250-286-3225 Ext 225

Kathleen.russell@quinsam.com

APPENDIX VIII – Annual Status Form

Annual Status Form			
AUTHORIZATION NUMBER:		7008	
AUTHORIZATION TYPE:		Effluent, Permit	
LEGAL AUTHORIZATION HOLDER NAME:		Quinsam Coal Corporation	
AUTHORIZED PERSON NAME:		Kathleen Russell	
AUTHORIZED PERSON SIGNATURE:		KR	
SIGNATURE DATE:		July 26, 2026	
<i>I understand that it is an offense to mislead a government official, and I declare that all of the information presented is accurate and true. I have been given the authority by the authorization holder to sign this form.</i>			
CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 1	AUTHORISED DISCHARGES		
Section 1.1	This subsection applies to the discharge of effluent from the NORTH COAL MINING OPERATION AND COAL PREPARATION PLANT. The site reference number for this discharge is E207409		
Section 1.1.1	The maximum and average authorized rates of discharge are 0.32 m³/s and 0.08 m³/s respectively. The authorized discharge period is 365 d/a.	Yes	Maximum discharge rates were below 0.32 m³/s throughout the entire monitoring period, with the highest daily discharge recorded at 0.16 m³/s. This year the cumulative discharge was calculated as 1,545,638 m³, which is 999,187 m³ lower compared to last year (2,544,826 m³). This is equivalent to an annual average discharge rate of 0.049 m³/s; 38.7% lower than the authorized average rate of discharge (0.08 m³/s or 2,522,880 m³). Discharge occurred for 365 days with zero discharge calculated for eight days: May 16; September 19-20, 25-27; and October 20-21.
Section 1.1.2	The characteristics of the discharge shall not exceed the specified permit limits (See 1.1.2 of PE7008).	Yes	All parameters were within the specified permit limits.
Section 1.1.5	The location of the facilities from which the discharge originates is Block 26, Block 120 and Block 148, Comox Land District.	Yes	N/A
Section 1.1.6	The location of the point of discharge is Block 120, Comox Land District.	Yes	N/A
Section 1.2	This subsection applies to the discharge of effluent from the SOUTH COAL MINING OPERATION. The site reference number for this discharge is E218582.		
Section 1.2.1	The maximum and average authorized rates of discharge are 0.46 m³/s and 0.10 m³/s, respectively. The authorized discharge period is 365 d/a.	Yes	Maximum authorized rates of discharge at SP1 are 0.46 m³/s (instantaneous) and 0.10 m³/s (annual average) or 3,153,600 m³ over a period of 365 days. Both the annual maximum flow (0.20 m³/s) and annual average flow (0.030 m³/s) were well below the permitted rates, with the cumulative flow recorded as 882,443 m³. This is 23,712 m³ lower compared to last year (906,155 m³), equivalent to a 2.6% decrease in discharge volume. The annual average
Section 1.2.2	The characteristics of the discharge from the South Mining Operation shall not exceed the specified permit limits.	No	Oil and grease is permitted for less than Detection limits. On April 1 (1.0g/L) Oil and grease was above detection limits. Appendix 1, Table 2.
Section 1.2.3	The authorized works are surface runoff collection and diversion ditches, flocculation facilities, settling pond, 3 pit sumps (1S, 2S and 3S Pits), an Adit sump (4S Adit), pumping facilities, and related appurtenances approximately located.	No	Permit amendment needs to occur to remove 1S , 4S adit sump. The flocculation facilities include the treatment system cells (Aeration lagoon and Settling pond).
Section 1.2.5	The location of the facilities from which the discharge originates is Block 98 and Block 149, Comox Land District.	Yes	N/A
Section 1.2.6	The location of the point of discharge is Block 149, Comox Land District.	Yes	N/A
Section 1.3-1.3.6	This subsection applies to the discharge of effluent from the BLOCK 242 COAL MINING OPERATION as shown on attached Site Plan C. The site reference number for this discharge is E225796.	Yes	No discharge occurred from this site during 2025-2026. Site is non-operational and reclaimed. November 1, 2019 permit amendment authorized removing monitoring from the permit.
Section 1.4	This subsection applies to the discharge of effluent from the 7 SOUTH MINING OPERATION. The site reference number for this discharge is E292069.	Yes	N/A
Section 1.4.1	The maximum authorized rate of discharge is 0.005 m³/s. The authorized discharge period is 365 d/a.	Yes	Discharge did not occur in 2025-2026
Section 1.4.2	The characteristics of the discharge from the 7 South Mining Operation shall not exceed the specified permit limits.	Yes	Discharge did not occur in 2025-2026
Section 1.4.5	The location of the facilities and point of discharge is Block 120, Comox Land District, except part in plan 12164, 13574, 13641, VIP53617 and VIP64817.	Yes	N/A
Section 2	Specific Requirements		
Section 2.1	North Coal Mining and Coal Preparation Plant Operation (Settling Pond #4)		
Section 2.1.1	Rate of Discharge: The maximum flow of 0.32 m³/s is the peak routed outflow from the settling pond resulting from the following inputs: a) The assumed response of the gravity fed catchment area defined in Subsection 2.1.3 up to a 1 in 10 year return period rainfall of 24 hour duration; and b) The maximum combined pumping rate from the 2-North portal sump, 2-North underground workings, and the tailings facility, as specified in Subsection 2.1.2. The Director may from time to time redefine the maximum outflow based upon actual on-site measurements.	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is measured continuously at Settling Pond #4 discharge. See Appendix I, Table 26.
Section 2.1.2	Pumping Rate: The combined rate at which effluent may be pumped from the 2-North portal sump, 2-North underground workings and the tailings facility to the settling pond shall not exceed 0.32 m³/s unless authorization has been obtained from the Director. Pumping rates shall be decreased as necessary to accommodate flows as defined in Subsection 2.1.1 (a).	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is measured continuously at Settling Pond #4 discharge. See Appendix I, Table 26.
Section 2.1.3	Catchment Area: The gravity drained settling pond catchment area shall not exceed 4 hectares unless authorization has been obtained from the Director.	Yes	N/A
Section 2.1.4	Wash Plant Effluent: Wash plant effluent shall not be conveyed to the 2-North pit sump via the wash plant ditch. The Permittee shall keep records of the date, duration and estimated volume of any overflow from the wash plant effluent sump. Subject to review of this data, the Director may request changes to the works.	Yes	When operating all fine tailing are directed to the tailings impoundment or underground 2-North Mine. No mining has occurred.
Section 2.1.5	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 2,300 m³. The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids in the settling pond have not accumulated to a point that requires them to be removed. Settled solids have accumulated to a point that requires them to be removed (1.0m) only around the decant riser. The pond has sufficient volume.
Section 2.1.6	Discharge Routing: The discharge from the settling pond shall be conveyed to Middle Quinsam Lake in a manner acceptable to the Director.	Yes	N/A
Section 2.1.7	Effluent Characteristics (for Total Suspended Solids): The characteristics of the effluent with respect to total suspended solids shall be equivalent to or less than the levels specified in Subsection 1.1.2 for discharge rates of up to 0.32 m³/s (or as may be redefined by the Director according to Subsection 2.1.1). Variances may be allowed by the Director for higher discharge rates. The Director may as well, in the future, establish a maximum level for total suspended solids during extreme storm events.	Yes	All TSS results were within permit limits. See Appendix 1, Table 6.
Section 2.2	South Coal Mining Operation (Settling Pond #1)		
Section 2.2.1	Rate of Discharge: The maximum flow of 0.46 m³/s is the peak routed outflow from the settling pond resulting from an assumed response of the maximum equivalent catchment area as defined in Subsection 2.2.2 to a design 1 in 10 year return period rainfall of 24 hour duration. The Director may from time to time redefine the maximum routed outflow based upon actual on-site measurements.	Yes	See Appendix I, Table 27.
Section 2.2.2	Catchment Area: The maximum equivalent settling pond catchment area shall not exceed 68.4 hectares as defined in the South Pit Water Management. Settling Pond 1, Quinsam Coal Project. Ker, Priestman and Associates Limited, March 1990 unless authorization has been obtained from the Director.	Yes	See Appendix I, Table 27.
Section 2.2.3	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 1400 m³. The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids in the settling pond have not accumulated to a point that requires them to be removed.

Authorized Person Initial: KR Date: Jul7, 2027

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 2.2.4	Discharge Routing: The discharge from the settling pond shall be conveyed to Long Lake through the adjacent wetlands as specified in Figure 1, South Pit Water Management. Settling Pond 1, Quinsam Coal Project, Ker, Priestman and Associates Limited, March 1990.	Yes	N/A
Section 2.2.5	Effluent Characteristics (for Total Suspended Solids): The characteristics of the effluent with respect to total suspended solids shall be equivalent to or less than the levels specified in Subsection 1.2.2 for discharge rates up to 0.46 m³/s (or as may be redefined by the Director according to Section 2.2.1). Variances may be allowed by the Director for higher discharge rates. The Director may as well, in the future, establish a maximum level for total suspended solids during extreme storm events.	Yes	N/A
Section 2.3 - 2.3.4	Block 242 Coal Mining Operation		This site is non-operational and reclamation efforts are establishing.
Section 2.4	7-South Mining Operation Settling Pond		
Section 2.4.1	Rate of Discharge : The maximum flow of 0.005 m3/s is the peak routed outflow from the settling pond resulting from an assumed response of the maximum equivalent catchment area as defined in subsection 2.4.3 to a design I in 10 year return period of 24 hour duration. Additional flow from the 7S Adit sump pump must not cause the settling pond to overflow or exceed the maximum flow. The Director may from time to time redefine the maximum routed outflow based upon actual on-site measurements.	Yes	No discharge occurred In 2025-2026
Section 2.4.2	Pumping Rate: The Permittee shall keep records of the date, duration and estimated volume when water from the 7 South Adit Sump (7S Portal Sump) is pumped to the settling pond and submit the records to the Regional Waste Manager upon request.	Yes	To date, no water has ever been routed from 7-South (Adit) Portal Sump to 7SSD. Therefore no records exist. All water from 7-South (Adit) Portal Sump (7SPS) is flowing into the 7South Mine to assist with flooding.
Section 2.4.3	Catchment Area: The maximum settling pond catchment area shall not exceed 3.14 hectares as defined in the Surface Water Management Plan -7 South Development Quinsam Mine, Golder Associates, April 12, 2012 (Appendix B) unless authorization has been obtained from the Director.	Yes	N/A
Section 2.4.4	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 340 m³. The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids have not accumulated to a point that requires them to be removed at this time. A minimum water cover of 1.0m is not sustained at all times as water management practices have changed to have minimal water discharged from the pond. Based on experience, it is difficult to maintain a 1.0m cover and discharge at appropriate levels. There has been far less TSS exceedances with the new practice.
Section 2.4.5	Discharge Routing: The discharge from the settling pond shall be conveyed to the Quinsam River via an ephemeral stream (Stream I) and a wetland (Lower Wetland) adjacent the Quinsam River in a manner acceptable to the Director.	Yes	Refer to the Annual Report, Appendix I, Table 28 (No discharge occurred).
Section 2.4.6	Settling Pond Discharge Dilution Ratio: The 7-South settling pond must not discharge unless a minimum flow is measured in Stream 1 (7S monitoring site). The minimum Stream 1 to discharge ratio shall be documented to the satisfaction of the Director in the Environmental Procedures Manual required in Section 3.2.	Yes	Refer to the Annual Report, Section 6.3 and Appendix I, Table 28 and 30 (No discharge occurred). Previous Annual reports (where discharge occurred) validated the model.
Section 2.4.7	Settling Pond Discharge Effluent Quality Model Validation: The Permittee shall report on the settling pond performance in the annual report. The purpose of the report is to validate the effluent water quality prediction model using actual flow and water quality data. The Director may amend the permit, if required, or request an amendment of the permit for environmental protection based on the report findings.	Yes	Refer to the Annual Report, Section 6.3 and Appendix I, Table 30 (No discharge occurred). Previous Annual reports (where discharge occurred) validated the model.
Section 2.4.8	Contingency Measures: In the event of a 7-South settling pond discharge permit limit exceedance, the settling pond discharge valve must be closed immediately and the effluent must temporarily be diverted to the 5S mine or 7S mine underground workings, or to another area acceptable to the Director. Details of the contingency measures shall be documented in the Environmental Procedures Manual required under Section 3.2. Additionally, the Permittee shall follow Section 3.9 requirements.	Yes	The 7-South settling pond water is directed to 7-S Sump via pumping. Refer to the Annual Report Section 2.1.3 and Figure 3. Details of the contingency measures are documented in the Environmental Procedures Manual (EPM).
Section 2.4.9	Toxicity Failure Monitoring and Reporting Procedures	Yes	There have been no toxicity failures in the past. Toxicity samples were not collected due to zero discharge.
Section 3.2	Environmental Procedures Manual (EPM)	Yes	There were no updates required for the EPM in 2025.
Section 3.3	Acid Generation Control	Yes	N/A
Section 3.4	Water Quality Objectives	Yes	N/A
Section 3.5	Nutrient Control	Yes	N/A
Section 3.6	Chemical Storage Containment Works	Yes	N/A
Section 3.7	Spill Reporting	Yes	Refer to Appendix I, (Table 2) and Appendix VII.
Section 3.8	Additional Works	Yes	Passive Treatment System cells BCR-EFF, SPC-EFF, AL-EFF, SP-EFF, 7-South Containment Pond (7SCP) and 2-North PAG CCR Pond (WP) are additional works that can be used as facilities for the removal of nutrients and metals from the effluent or the provision of additional settling pond capacity as well as flocculation facilities, if required.
Section 3.9 (3.9.1-3.9.2)	Maintenance of Works, Non-Compliances and Emergency Procedures	Yes	
Section 3.10	Bypasses	No	Refer to Appendix VII.
Section 3.11	Environmental Review Procedure - An Environmental Technical Review Committee of six members has been formed. This Committee is composed of technical representatives from the Department of Fisheries and Oceans; Environment Canada; the Ministry of Environment; the Ministry of Energy, Mines and Natural Gas; the City of Campbell River; and the Permittee for the purpose of coordinating and reviewing the construction and operational monitoring results. Based on the recommendations of the Committee, the Director may revise the monitoring requirements in Section 4.	No	Last agency meeting was held on November 9th, 2023. Stakeholder meeting was held December 29, 2023. Mine has had multiple meetings with ENV and EMLI in 2025- 2026. Newt ETRC Meeting is July 21, 2026.
Section 3.12	Future Monitoring Based on the results of the Effluent and In Mine Releases monitoring program specified in Subsection 4.1 and / or data obtained from the Receiving Environment monitoring program specified in Subsection 4.2, the Director may revise the monitoring requirements in Section 4.	Yes	Agency meeting was last held on November 9th, 2023. No revised monitoring plans were suggested.
Section 4.0	MONITORING AND REPORTING REQUIREMENTS	Yes	
Section 4.1.1	Effluent and In-Mine Release	Yes	
Section 4.1.1	North Coal Mining and Coal Preparation Plant Operation	Yes	
Section 4.1.1 i)	Decant WD (EMS # E207409).	Yes	
Section 4.1.1 ii)	Culvert, at Middle Quinsam Lake Road - WC (EMS # E207411)	Yes	
Section 4.1.1 iii)	2-North Portal Sump Effluent - 2N-P-Sump (EMS # E283433).	Yes	

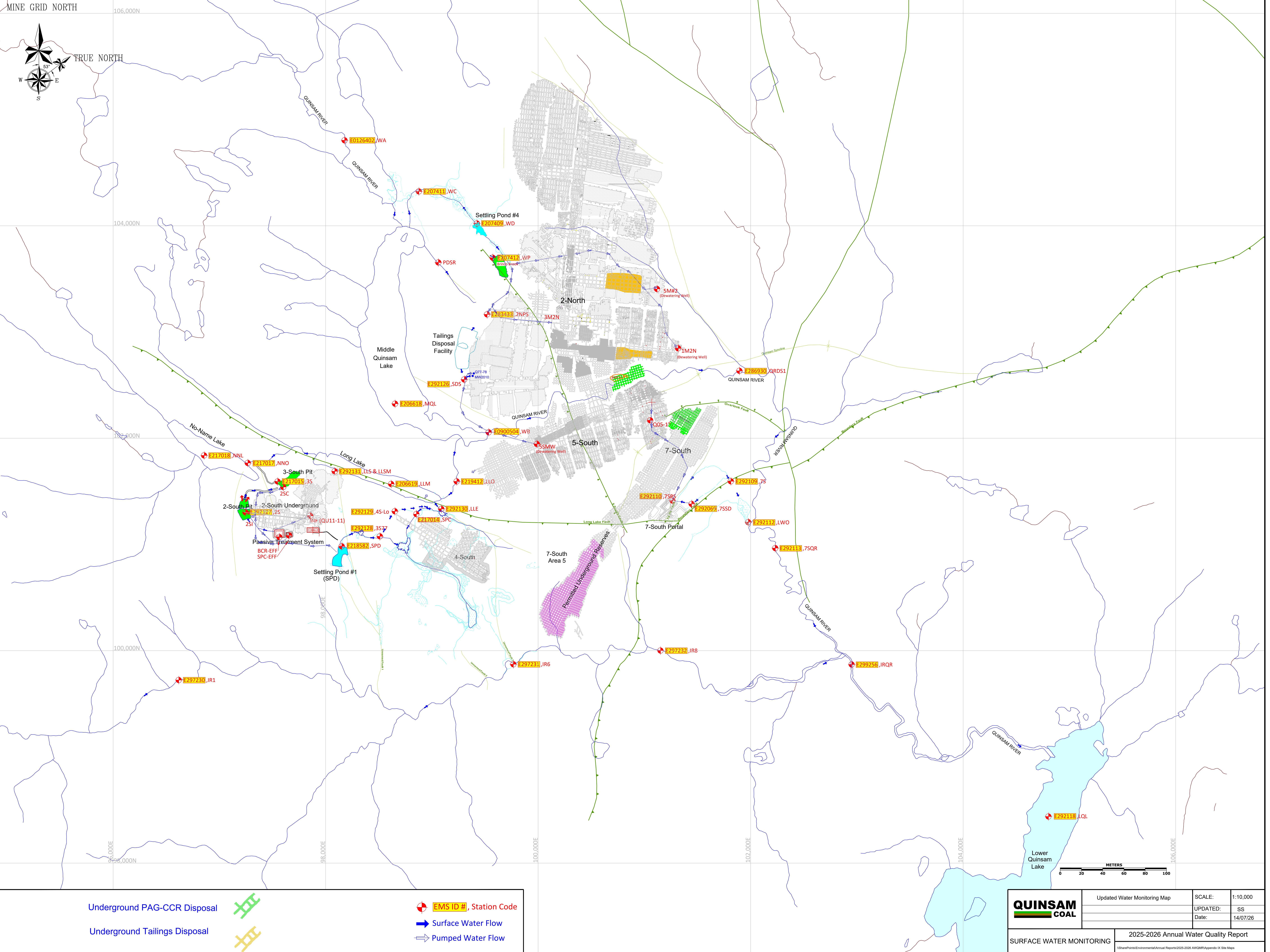
Authorized Person Initial:_____KR_____Date:_____Jul7, 2027_____

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 4.1.1 iv)	Additional Sites Monitoring Schedule : 2-North Pit Sump CCR Cover (WP) EMS # E207412	Yes	

Authorized Person Initial:_____KR_____Date:_____Jul7, 2027_____

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 4.1.2	South Coal Mining Operation		
Section 4.1.2 (i)	Decant - SPD (EMS # E218582)	Yes	Refer to Annual report, Appendix 1, Table 2 for permit non-compliance results.
Section 4.1.2 (ii)	Culvert, Downstream End of Access Road - SPC (EMS # E217014)	Yes	
Section 4.1.2 (iii)	South Pit Main Sump Water- 3S (EMS # E217015)	Yes	
Section 4.1.2 (iv)	Additional Monitoring Sites Schedule: 2-South Pit In Pit Water Cover (2S) EMS # E292127	Yes	
Section 4.3	Block 242 Coal Mining Operation	Yes	NA - Area is non-operational and reclaimed.
Section 4.1.4	7 South Mining Operation		
Section 4.1.4 (i)	Decant - 7SSD (EMS # E292069)	Yes	
Section 4.1.4 (ii)	7-South Adit Sump EMS # E292110	Yes	NA - This pond is never pumped to 7S Settling Pond.
Section 4.2	Receiving Environment Monitoring Sites and Monitoring Requirements		
Section 4.2.1 (i)	Initial Dilution Zone Monitoring Sites - Long Lake Entrance- LLE (EMS # E292130)	Yes	
Section 4.2.1 (ii)	Road Crossing bridge on Stream 1 above the Lower Wetland -7S (EMS # E292109).	Yes	
Section 4.2.2	Seep Monitoring Sites		N/A
Section 4.2.2 (i)	Long Lake Seep - LLS / LLSM (EMS # E292131)	Yes	Unauthorized discharge, bypass of authorized works.
Section 4.2.3	Receiving Water (Stream and Lakes) Monitoring Sites. As per Table 4.2.3 North Mining Operation: Quinsam River at Argonaut Road (WA) (EMS # 0126402), Outflow from Middle Quinsam Lake (WB) (EMS # 0900504), South Mining Operation: Long Lake Outlet (LLO) (EMS # E219412), No Name Lake Outlet (NNO)(EMS # E217017). (EMS # E217017) 7-South Mining Operation (Areas 1 to 4): Quinsam River downstream of 7 South Mining Operation (7SQR) (EMS # E292113), 7-South Area 5 Mining Operation: Iron River upstream of 7SA5 (IR6) (EMS # E297231), Iron River downstream of 7SA5 and 242 inputs (IR8) (EMS # E297232), Quinsam River downstream of confluence with Iron River (IRQR) (EMS # E299256).	No	No monitoring occurred at Block 242 Mining Operation: Iron River upstream of 242 influence (EMS #E225798) Iron River downstream of 242 influence (EMS # E225808). These sites are captured at IR6 and IR8. E297231 - Iron River upstream of 7SA5 and 242 influence (IR6).
Section 4.2.4	Sediment and Benthic Monitoring Sites	No	Monitoring Program occurred in summer 2025 on the Quinsam River.
Section 4.2.4 (i)	7-South Area 5 sediment proposal	Yes	N/A
Section 4.2.5	Stream Monitoring Requirements		
Section 4.2.5 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.3 (E292112)- Lower Wetland Outlet (LWO).	Yes	N/A
Section 4.2.6	Lake Monitoring Requirements		
Section 4.2.6 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.3.	Yes	
Section 4.2.7	Sediment Benthic Monitoring Requirements	Yes	Partial program was performed on the Quinsam River as a result of the mine in care and maintenance in 2025
Section 4.2.7 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.4	N/A	N/A
Section 4.3	Additional Monitoring Requirements		
Section 4.3.1	Composite sampling	Yes	
Section 4.3.2	Continuous Flow Recording	Yes	Annual Report Appendix I , Tables 26 through 30
Section 4.3.3	Iron River Flow Monitoring	Yes	Yes App. 1 Table 30
Section 4.3.4	pH and Conductivity Monitoring	Yes	App.1 all tables
Section 4.3.5	Monitoring of Seeps	Yes	Annual Report Appendix I , Tables 2.
Section 4.3.6	Groundwater Observation Wells	Yes	Groundwater results and discussion is integrated into the Annual Report, Refer to Appendix I, Tables 5, 32 to 38
Section 4.3.7	Monitoring of Drainage Ditches and Water Channels	Yes	Operations are checked daily by either the environmental technician or shift bosses.
Section 4.3.8	Precipitation Monitoring	Yes	Annual Report, Appendix I, Table 31.
Section 4.3.9	Block 242 Monitoring	N/A	Not operational, area has been reclaimed
Section 4.4	Monitoring Procedures	Yes	N/A
Section 4.4.1	Sampling and Analytical Procedures	Yes	N/A
Section 4.5	Reporting	Yes	N/A
Section 4.5.1	7 South Area 5 Reporting	Yes	No mining has occurred since 2019.

APPENDIX IX - Site Maps



Underground PAG-CCR Disposal

Underground Tailings Disposal

EMS ID #, Station Code

Surface Water Flow

Pumped Water Flow

QUINSAM COAL

SURFACE WATER MONITORING

Updated Water Monitoring Map

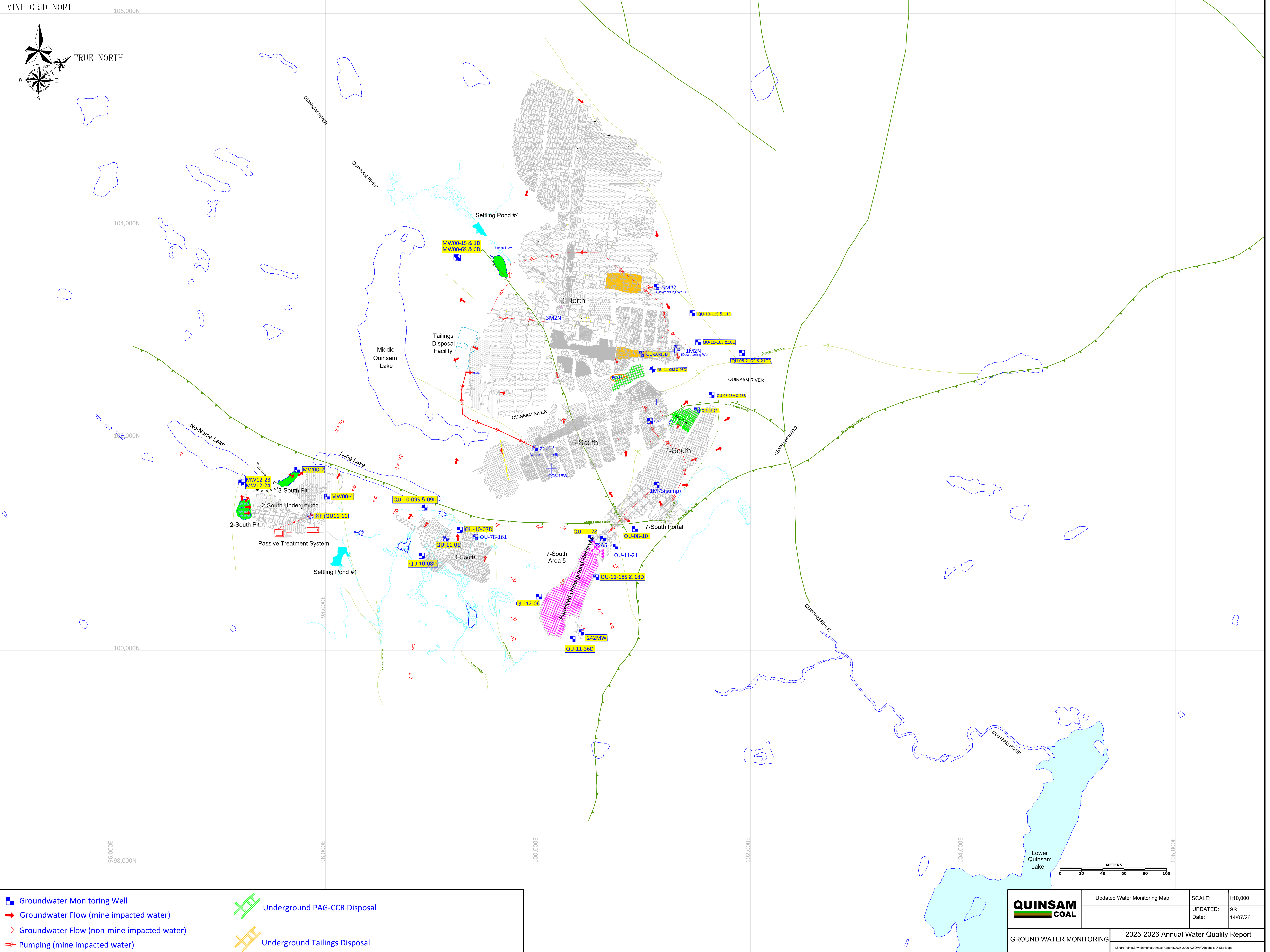
2025-2026 Annual Water Quality Report

SCALE: 1:10,000

UPDATED: SS

Date: 14/07/26

13SharePoint/Environmental/Annual Reports/2025-2026 AWQMR/Appendix IX Site Maps



Groundwater Monitoring Well

Groundwater Flow (mine impacted water)

Groundwater Flow (non-mine impacted water)

Pumping (mine impacted water)

Underground PAG-CCR Disposal

Underground Tailings Disposal

QUINSAM

COAL

Updated Water Monitoring Map

Ground Water Monitoring

SCALE: 1:10,000

UPDATED: SS

2025-2026 Annual Water Quality Report

Date: 14/07/26

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APPENDIX X - Sediment and Benthic Invertebrate Monitoring Program

Sediment and Benthic Invertebrate Monitoring Program

APPENDIX X

2025 ANNUAL WATER QUALITY MONITORING REPORT

Executive Summary

Quinsam Coal Corporation completed the 2025 Sediment and Benthic Invertebrate Monitoring Program to assess sediment quality, benthic macroinvertebrate community condition, and potential mine-closure related effects in the Quinsam River receiving environment. The program was initiated following temporary mine-water releases associated with 2024–2025 mine-site de-risking activities and supports the three-year receiving environment monitoring program for the River Barrier Pillar Treatment System and related closure activities.

The 2025 program included eight Quinsam River monitoring stations: WA, QRU-01, QRD-01, QRD-02, QRD-03, 7SQR03A, 7SQ03, and 7SQR03B. Sampling was completed in late August and September 2025 and included sediment chemistry, supporting water quality measurements, habitat assessment, iron accumulation indexation, and benthic invertebrate community sampling using Canadian Aquatic Biomonitoring Network protocols.

Sediment results indicate that arsenic was the primary parameter of interest in 2025. Arsenic concentrations were above the CCME Interim Sediment Quality Guideline at the upstream reference station and at QRU-01 and exceeded the Probable Effects Level at stations downstream of QRU-01. The highest arsenic concentrations occurred at QRD-02, where groundwater seepage and iron-rich sediment conditions appear to influence sediment chemistry. Arsenic concentrations decreased downstream from QRD-02, indicating attenuation through the lower Quinsam River. Copper concentrations were highest at the upstream reference station and generally decreased downstream, supporting interpretation of copper as a natural background watershed contribution rather than a persistent mine-related sediment signal. Iron concentrations were also elevated at the upstream reference station, WA and at QRD-02, with results suggesting that arsenic may be associated with iron oxides in sediment. Polycyclic aromatic hydrocarbons were detected at low concentrations, with occasional guideline exceedances for individual compounds but no Probable Effects Level exceedances and no evidence of progressive downstream accumulation.

The iron accumulation indexation survey provided useful baseline information for future comparison; however, results were variable and did not show a consistent downstream increase or clear spatial pattern. The highest index value occurred immediately downstream of the River Barrier Pillar discharge at QRD-01, suggesting possible localized deposition, but interpretation is limited by uncertainty in distinguishing iron staining from periphyton and potential dye staining during field assessment.

Benthic invertebrate results indicate that seven of the eight stations were assessed as Mildly Divergent from the Vancouver Island Reference Condition Approach reference condition, while 7SQ03 was assessed as Similar to Reference. The 2025 communities generally supported diverse benthic assemblages, with pollution-sensitive Ephemeroptera, Plecoptera, and Trichoptera taxa present across the monitoring network and dominant at several mid-river stations.

Overall, the integrated sediment and biological results indicate localized mine-related influences in sediment quality, particularly arsenic enrichment near QRD-02, but do not indicate persistent downstream accumulation or widespread adverse effects on benthic invertebrate community health. Continued monitoring is recommended to strengthen the baseline dataset, confirm temporal trends, and support assessment of potential receiving environment effects with the initiation of full-scale passive discharge.

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Sections 1 and 6 prepared by Quinsam Coal (Kathleen Russell, B.Sc.) Section 7 prepared by Stantec Consulting Ltd. (Karen Munro, M.Sc., R.P. Bio. and Pam Reece, M.Sc., R.P. Bio.)
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1.0 PROJECT LOCATION

The Quinsam Coal Mine is an underground operation located in east-central Vancouver Island, approximately 20 km west of Campbell River, British Columbia (Figure 1-1 and 1-2). Access is via Highway 28 and Forest Service Road 9563 (Argonaut Main). The Site is situated within the Quinsam Subbasin, where mine-related discharges enter Long Lake and Middle Quinsam Lake prior to entering the Quinsam River mainstream. The Iron River joins the system further downstream, contributing to regional background sediment and hydrological dynamics.



Figure 1.1: Project Regional Location Map

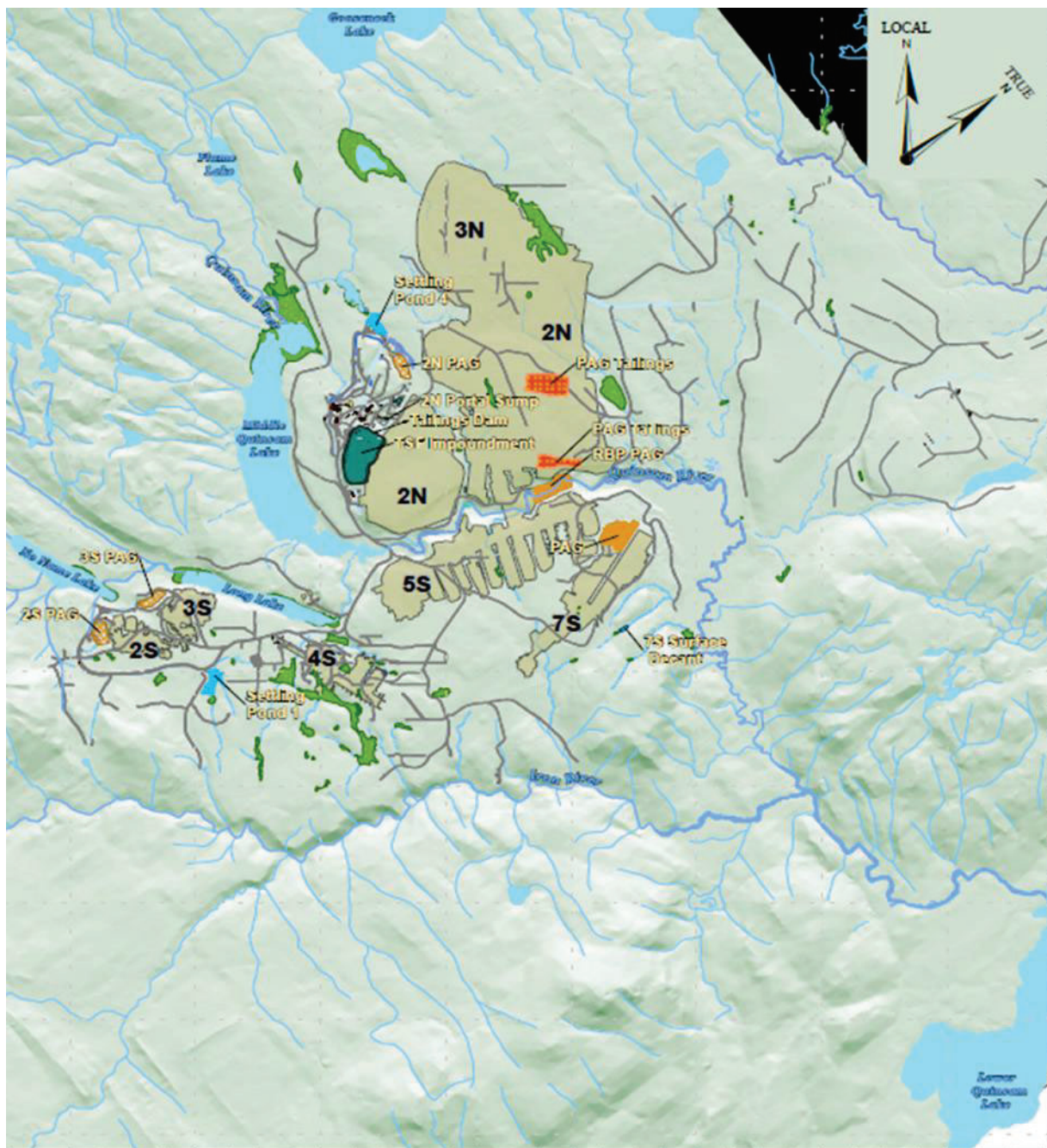


Figure 1.2: Project Area

1.1 STUDY OBJECTIVE

Following temporary mine-water releases during 2024–2025 mine-site de-risking activities from the pilot-scale River Barrier Pillar System (RBPS), a three-year receiving environment monitoring program, was initiated in 2025. The objective is to monitor sediment quality, benthic macroinvertebrate community health, and potential mine-closure effects across the watershed. Substrate conditions are evaluated relative to both spatial and temporal trends, distinguishing mine-related signatures from natural geological baselines. Substrate tracking includes an iron accumulation assessment using a modified Wolman pebble-count method to quantify iron deposition and streambed cementation downstream of the River Barrier Pillar Treatment System (RBPTS) discharge.

Sediment and benthic invertebrate monitoring in the Quinsam River are required every three to five years under amended Permit PE-7008 (June 23, 2015), with one-time baseline monitoring also required for the Iron River (completed in 2019).

In late August and mid-September 2025, sampling was completed at eight Quinsam River stations. The program included the three permit-required stations (WA, QRD-02, and 7SQ03), QRD-03, which was added in 2021, and four additional baseline stations (QRU-01, QRD-01, 7SQR03A, and 7SQR03B) to assess new discharge pathways associated with mine de-risking. The 2025 program supplements monitoring completed in 2016 and 2021 and focuses on areas of the Quinsam River affected by mine-related discharges and comparable reference conditions.

Due to the mine remaining in care and maintenance under a court-appointed receiver, the 2021 and 2025 programs focused on the Quinsam River and did not include the lakes or wetland sampled in 2016. The programs included habitat assessment and collection of benthic invertebrates, water quality, and sediment data using Canadian Aquatic Biomonitoring Network (CABIN) methods.

Permit PE-7008 monitoring is completed at the following Quinsam River stations:

- WA (EMS 0126402) – upstream reference station at Argonaut Bridge, above mine influence
- QRD-02 (EMS E286930) – downstream of 2-North, 2-South, 4-South, and 5-South influences, but upstream of 7-South
- 7SQ03 (EMS E292113) – downstream of 7-South and other upstream mine influences, but upstream of the Iron River confluence

Potential seepage areas along the Quinsam River, identified as S and S2 (A and B), have been monitored for water quality and quantity since 2021. These areas are located downstream of Middle Quinsam Lake and upstream of the 7-South Mining Operation. Seepage at location S was first identified after groundwater well QU11-09 discharged mine water to the river as flooded mine water levels rose and pressurized the aquifer. Monitoring later expanded to include S2A and S2B. Because groundwater interaction with arsenic-bearing sandstone can elevate arsenic concentrations, the program was expanded to evaluate seepage-related effects on the Quinsam

River for closure and flooding of 2-North and 7-South mines and to establish baseline conditions before operation of the full-scale RBPTS.

In 2025, additional baseline sediment and benthic invertebrate samples were collected at QRU-01, QRD-01, 7SQR03A, and 7SQR03B to characterize conditions before long-term passive discharge from the closed 2-North and 7-South mine systems. Following temporary mine-water releases in 2024 and 2025 de-risking activities, a three-year monitoring program was initiated in 2025 using CABIN protocols to evaluate sediment and water quality, benthic communities, and potential effects of mine-closure discharges.

The program also includes an iron accumulation assessment, based on Lorax (2025), that uses a modified Wolman pebble-count method to quantify iron deposition and cementation on streambed substrates downstream of the RBPTS discharge. This baseline will support comparison with future conditions once full passive discharge begins.

1.2 STUDY DESIGN

The monitoring network consists of eight designated stations tracking conditions upstream and downstream of mine-related inputs (Tables 1-1, 1-2; Figure 1-3). Station selection integrates long-term historical compliance locations managed under Permit PE-7008 with near-field stations established to track the 2-North mine dewatering trials. In 2025, four baseline locations (QRU-01, QRD-01, 7SQR03A, and 7SQR03B) were added to evaluate the receiving environment before long-term passive discharge begins from the RBPTS and the partially flooded, closed 2-North and 7-South mine workings. Stations are monitored using methods described in the BC Field Sampling Manual, Part D2 (Solids), and the CABIN standardized macroinvertebrate sampling protocols.

Table 1-1: Sediment and Benthic Invertebrate Monitoring Locations

Watercourse	Station Code / EMS #	Station Name	Latitude Longitude	Rationale	Benthic Invertebrates
Quinsam River	WA E0126402	Quinsam River at Argonaut Road	49.930053 -125.510574	Upstream reference station representing background conditions above mine influence.	Sept. 2016 Sept. 2021 Aug. 2025
	QRU-01	Quinsam River Upstream of RBPTS	49.93925 -125.462667	Baseline station upstream of the RBP discharge and downstream of Middle Quinsam Lake outlet.	Sept. 2025
	QRD-01	Quinsam River Downstream of RBPTS	49.9359667 -125.4632	Near-field baseline station located about 200 m downstream of the RBP discharge.	Sept. 2025
	QRD-02 (QRDS1 in 2016)	Quinsam River Downstream 2	49.941349 -125.459947	Historical monitoring station within the seepage-influenced zone downstream of 2-North inputs; benthos collected upstream of S2A and S2B.	Sept. 2016 Sept. 2021 Sept. 2025
	QRD-03	Quinsam River Downstream 3	49.946280 -125.454801	Historical water quality station downstream of seepage areas, RBP discharge, and 2-North mine-related inputs.	Sept. 2021 Sept. 2025
	7SQR-03A	Quinsam River Upstream of 7-South	49.939003 -125.42119	Historical water quality station upstream of the Iron River confluence that reflects cumulative inputs from 2-North and 7-South.	Sept. 2025
	7SQ03 E292113	Quinsam River Downstream of 7-South	49.939484 -125.416997	Historical sediment and benthic station upstream of the Iron River confluence that reflects cumulative 7-South and upstream mine inputs.	Sept. 2016 Sept. 2021 Sept. 2025
	7SQR-03B	Quinsam River Downstream of Iron River	49.9472988 -125.394859	Far-downstream station below the Iron River confluence and upstream of Lower Quinsam Lake, representing cumulative mine-related inputs.	Sept. 2025

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Table 1-2: 2025 Sample Types at Monitoring Stations

Location Name	Sediment Sample Replicates	Water Chemistry Sample Sets	Benthic Invertebrate Monitoring (CABIN)
WA	5 + split	1 + rep	1
QRU-01	2	1	1
QRD-01	2	1 + rep	1
QRD-02*	8	1	1
QRD-03*	6	1	1
7SQR03A	2	1	1
7SQ03	5 + split	1	1
7SQR03B	2	1	1
Total	34	10	8

* QRD-02 and QRD-03 are located downstream of S2, on both sides of the river.

2.0 SEDIMENT QUALITY IN THE RECEIVING ENVIRONMENT

Sediment investigations focus on a designated suite of physical and chemical parameters commonly associated with coal-mining operations and regional mineral features. Targeted testing fields encompass total moisture, hydrometer particle size distribution, paste pH, total organic carbon (TOC), total sulphur, total metals extracted from the fine (<65 µm) fraction, and polycyclic aromatic hydrocarbons (PAHs).

2.1 METHODS

Sediment replicates were collected in August and September 2025 from shallow, low-velocity depositional pockets (0–10 cm depth interval) surrounding large boulders. Samples were preserved in clean plastic jars, packed in iced coolers, and transferred under strict chain-of-custody protocols to Bureau Veritas Laboratories in Burnaby, BC, for analysis.

To identify cross-channel mixing profiles and account for potential bank-specific plume alignment, individual left bank (LB) and right bank (RB) sampling was built into the program. Mixing assessments completed by Lorax indicated that discharges from the 2-North complex can remain concentrated along the discharge-side riverbank (Right Bank looking upstream) for several hundred metres before full lateral mixing occurs. Standard stations deployed a 5-to-8 replicate pattern across both banks, while specific baseline stations used a two-replicate layout (one LB and one RB) to screen the cross-channel mixing zone. Analytical precision was verified via dedicated split quality control samples collected at stations WA and 7SQ03.

3.0 RESULTS

Analytical sediment data are evaluated against the Canadian Council of Ministers of the Environment (CCME) guidelines (CCME 2001, 2017). Screening matrices utilize the Interim Sediment Quality Guideline (ISQG) to mark the concentration below which adverse biological effects are expected to occur rarely; and the Probable Effects Level (PEL) to mark the concentration above which adverse biological effects are expected to occur frequently. Ambient water samples collected during sediment collection are screened using the BC Acute Water Quality Guidelines for Freshwater Aquatic Life (Acute - WQGs) to provide environmental context. Multi-year trends are evaluated by comparing 2025 data against historical data sets from 2016 and 2021.

Sediment quality was evaluated for metals and polycyclic aromatic hydrocarbons (PAHs), with particular attention to arsenic, copper, iron, naphthalene, 2-methylnaphthalene, acenaphthene, and phenanthrene, which are considered POI (concentrations higher than ISQG or PEL).

Attachment A Tables 1 - 8 present the water chemistry results collected concurrently with the sediment sampling program. Additional interpretation of water quality trends is provided in the AWQMR, Rivers and Stream Sites section, including historical parameters-of-interest (POI)

graphs for the Iron and Quinsam rivers. For water quality associated with the sediment sampling program, all parameters measured below the Acute -WQG with WA and its replicate having the highest copper concentration among those samples collected in 2025 measuring (0.00052 mg/L and 0.00055 mg/L, respectively). Refer to Section 9.2.1 in the AWQMR for a discussion on water quality.

Attachment B Tables 1-19 presents sediment chemistry results for the Quinsam River monitoring program and compares measured concentrations with applicable CCME, ISQG and PEL. The current assessment incorporates historical sediment data from 2016 and 2021 together with the 2025 program to evaluate temporal trends and the spatial distribution of mine-related effects.

3.1 WA - UPSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

Station WA is situated at the Argonaut Bridge crossroads, upstream of historical and current mining activities. It serves as the primary regional background reference location to establish natural baseline parameters for Quinsam River substrates. Physical channel attributes vary slightly from downstream impacted reaches.

Field data collection at Station WA was executed in August 2025 at an operational elevation of 302 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 11.1 m, active wetted boundary width of 9.4 m, mean sectional depth of 0.25 m, and mean mid-channel velocity of 0.71 m/s.
- **Substrate Matrix Geometry:** Substrate elements heavily dominated by coarse clasts, specifically cobble (69%) and pebble (25%), with limited gravel (3%) and boulder (3%).
- **Hydraulic and Riparian Structure:** High-energy erosional instream habitat, consisting of rapids and riffles with minimal depositional environments; surrounding riparian margins heavily bordered by dense canopy vegetation.
- **Sediment Geochemistry:** 19% average moisture content; primarily fine sand (93%) with minor silt and clay content; localized paste pH profile of 7.4.

Analytical observations from the 2025 longitudinal sediment monitoring program encompass:

- **Polycyclic Aromatic Hydrocarbons (PAHs):** Individual concentrations fell below standard laboratory detection limits (DLs) across almost all collection profiles, with a total PAH concentration of 0.0073 mg/kg in one profile.
- **Total Arsenic (As):** Historically flagged as a POI, the average arsenic concentration was higher than the ISQG (5.9 mg/kg) and below the PEL (17.0 mg/kg) and lower than the downstream stations. Average arsenic concentrations at WA were (17.788 mg/kg in 2016, 6.144 mg/kg in 2021 and 8.34 mg/kg in 2025, above the ISQG (5.9 mg/kg).
- **Total Copper (Cu):** Historically flagged as a POI, the average copper concentration was higher than the ISQG (35.7 mg/kg) and below the PEL (197 mg/kg) and were higher than

at the downstream stations, illustrating a natural watershed baseline contribution. Concentrations at WA were (83.62 mg/kg in 2016, 51.12 mg/kg in 2021 and 74.60 mg/kg in 2025).

- **Total Iron (Fe):** Iron levels have been consistently elevated compared to downstream stations over time, with average concentrations of 41,820 mg/kg in 2016, 34,340 mg/kg in 2021, and 2025 48,540 mg/kg in 2025. There are no CCME or BC guidelines for iron.

Sediment chemistry at WA demonstrates that naturally elevated concentrations of some constituents occur upstream of mine influence. In particular, iron and copper concentrations were higher at WA relative to downstream Quinsam River stations, with copper also been identified historically as a POI at this location. The occurrence of elevated metals at the upstream reference station indicates that background geology and natural sediment composition contribute to the observed chemistry. Accordingly, downstream results were interpreted relative to both CCME guidelines and the upstream reference condition, rather than solely on the basis of generic guideline exceedances.

PAHs in sediment were below the DLs for most individual parameters with one sample having total PAH (0.0073 kg/mg), (**Attachment B**).

3.2 QRU-01 - DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER UPSTREAM OF RBPTS

QRU-01 is located downstream of the Middle Quinsam Lake outlet and upstream of the RBPTS discharge area and was established in 2025 as a baseline station to support evaluation of the flooded 2-North Mine and associated mine de-risking activities. The station provides an important near-field upstream comparison for QRD-01 and for downstream stations potentially influenced by the RBP discharge and seepage-related inputs.

As a baseline location, QRU-01 is intended to characterize sediment quality immediately upstream of the principal discharge area rather than to represent fully background conditions such as those at WA. Interpretation of results from this station focuses on distinguishing local baseline conditions from any changes observed downstream. In combination with QRD-01, QRU-01 improves resolution of the near-field sediment quality assessment and helps support future interpretation of temporal trends as passive mine-water discharge evolves.

Field data were collected at Station QRU-01 in September 2025 at an operational elevation of 254 masl. Morphological parameters recorded were:

- **Channel Dimensions:** Bankfull stream width of 14.3 m, wetted width of 11.0 m, mean sectional depth of 0.35 m, and mean mid-channel velocity of 0.32 m/s.
- **Substrate Matrix Geometry:** Substrate elements heavily dominated by cobble (61%) and pebble (27%), with limited gravel (4%) and boulder (8%).

- **Hydraulic and Riparian Structure:** High-energy erosional instream habitat, consisting of rapids and riffles with minimal depositional environments; surrounding riparian margins heavily bordered by dense canopy vegetation.
- **Sediment Geochemistry:** 16% average moisture content; primarily sand (97%) with minor silt and clay content (3%); localized paste pH profile of 7.27.

PAHs were measurable in low concentration, with an average total PAH of 0.17 mg/kg. Average naphthalene and 2-methylnaphthalene concentrations (0.0525 mg/kg and 0.071 mg/kg, respectively) were higher than ISQG (0.0346 mg/kg and 0.020 mg/kg, respectively). One replicate had a phenanthrene concentration of 0.042 mg/kg (marginally higher than the ISQG of 0.0419 mg/kg).

Copper concentrations were lower than the ISQG (average of 29.6 mg/kg). The average arsenic concentration of 11.3 mg/kg was higher than the ISQG, and the highest individual value was from the left bank (QRU01LB 12.6 mg/kg). The concentrations were below the PEL. Average iron concentration was 32,550 mg/kg, (**Attachment B**).

3.3 QRD-01 - DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER, DOWNSTREAM OF RBPTS

QRD-01 is located approximately 250 m downstream of the RBPTS discharge area and was added in 2025 as a near-field baseline station to support evaluation of the flooded 2-North Mine and the RBPTS discharge. This station provides an immediate downstream comparison to QRU-01 and is intended to help characterize local sediment conditions in the reach most likely to reflect early changes associated with mine de-risking discharges.

Field data were collected at Station QRD-01 in September 2025 at an operational elevation of 230 masl. Morphological parameters recorded were:

- **Channel Dimensions:** Bankfull stream width of 14.3 m, wetted width of 11.4 m, mean sectional depth of 0.04 m, and mean mid-channel velocity of 0.80 m/s.
- **Substrate Matrix Geometry:** Substrate elements were primarily cobble (55%) and pebble (25%), with little boulder (13%) and gravel (6%).
- **Hydraulic and Riparian Structure:** High-energy erosional instream habitat, consisting of rapids and riffles with minimal depositional environments; surrounding riparian margins heavily bordered by dense canopy vegetation.
- **Sediment Geochemistry:** 19% average moisture content; 98% sand, 2% silt and clay; localized paste pH profile of 7.1.

Results from QRD-01 are interpreted in the context of both the upstream baseline at QRU-01 and the broader downstream monitoring network. This station is particularly useful for assessing whether any observed changes in sediment quality are localized near the discharge area or persist farther downstream. Together, QRU-01 and QRD-01 strengthen the 2025 baseline for future comparison once longer-term passive discharge conditions are established.

PAH concentrations were low, with an average total PAH of 0.069 mg/kg and individual parameter concentrations below the ISQG.

The average copper concentration of 23.6 mg/kg was lower than the ISQG. The average arsenic concentration of 24.5 mg/kg was higher than ISQG and PEL (17.0 mg/kg), highest in the sample taken on the right bank (QRD01RB 28.6 mg/kg). Average iron concentration was 35,700 mg/kg, with results comparable between right and left banks, (**Attachment B**).

3.4 QRD-02 - DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

QRD-02, approximately 3 km downstream of the outlet of Middle Quinsam Lake, was selected to monitor sediment chemistry downstream of the North and South water management systems. This section of the Quinsam River receives groundwater sourced from the RBP potentially acid-generating (PAG) storage area and groundwater from the flooded 2-North PAG-tailings mine-affected waters.

Field data collection at Station QRD-02 was executed in September 2025 at an operational elevation of 216 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 15.9 m, active wetted boundary width of 15.2 m, mean sectional depth of 0.30 m, and mean mid-channel velocity of 0.42 m/s.
- **Substrate Matrix Geometry:** Substrate elements heavily dominated by coarse clasts, specifically cobble (54%) and pebble (5%), with limited gravel (1%) and boulder (40%).
- **Hydraulic and Riparian Structure:** The station was near exploration roads in the 2-North mining area and had dense riparian vegetation with partial canopy coverage. This section of river contained small riffles, large boulders and, at the time of sampling, few depositional areas for sediment to accumulate.
- **Sediment Geochemistry:** 22% average moisture content; primarily sand (90%) and 9.3% silt: localized paste pH profile of 7.27

In the historical and current monitoring, benthic invertebrates were sampled with a kick net upstream of the seepage areas S2A and S2B. Sediment samples were collected upstream and downstream of the seep influences.

PAHs were low in concentration, with an average total PAH of 0.045 mg/kg. Two individual results for 2-methylnaphthalene were above the ISQG (0.041 mg/kg and 0.026 mg/kg).

The average copper concentration was 40.8 mg/kg, higher than the ISQG. The average arsenic concentration (126 mg/kg) was greater than ISQG and PEL and higher at this station than at other stations sampled. Arsenic was most elevated at the sampling location on the right bank (QRD02ERB 542 mg/kg), capturing where groundwater seepage areas enter the right bank of the river (S2A and S2B). This one value is an outlier, given that other results for the station were 52.3 mg/kg, 54.5 mg/kg, 57.4 mg/kg, 58.2 mg/kg, 58.6 mg/kg, 87.1 mg/kg and 97.7 mg/kg.

Concentrations of iron were also highest at this location (70,800 mg/kg maximum), suggesting the higher concentrations of arsenic are bound to the iron. Individual results ranged from 43,900 mg/kg to 48,400 mg/kg on the left bank and 49,200 mg/kg to 70,800 mg/kg on the right bank with an overall site average of 48,462 mg/kg, (**Attachment B**).

3.5 QRD-03 - DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

QRD-03, approximately 4 km downstream of the outlet of Middle Quinsam Lake, was selected to monitor sediment chemistry downstream of the North and South water management systems and potential seepage locations. This section of the Quinsam River receives groundwater sourced from the underground tailing's storage area and other mine-affected waters from upstream seepages.

Field data collection at Station QRD-03 was executed in September 2025 at an operational elevation of 212 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 18.0 m, active wetted boundary width of 6.8 m, mean sectional depth of 0.64 m, and mean mid-channel velocity of 0.53 m/s.
- **Substrate Matrix Geometry:** Substrate elements heavily dominated by coarse clasts, specifically cobble (47%) and pebble (43%), with limited gravel (6%) and boulder (3%).
- **Hydraulic and Riparian Structure:** This section of river contained small riffles, large boulders and, at the time of sampling, had few depositional areas for sediment to accumulate. Dense riparian vegetation with partial tree cover
- **Sediment Geochemistry:** Low organic content. 22% average moisture content; primarily sand (92%) and 7.4% silt: localized paste pH profile of 7.13

PAHs were measurable in low concentrations, with an average total PAH concentration of 0.040 mg/kg. Individual PAH compounds above ISQG were 2-methylnaphthalene (0.03200 mg/kg), acenaphthene (0.0011 mg/kg) and phenanthrene (0.042 mg/kg).

Copper concentrations were above the ISQG, averaging 39.4 mg/kg. Arsenic concentrations exceeded the ISQG and PEL (average 37.85 mg/kg and ranged between 30.7 mg/kg and 45 mg/kg), (**Attachment B**). Iron concentrations averaged 41,650 mg/kg. The highest concentrations of copper, arsenic, and iron occurred on the left bank.

3.6 7SQR03A -DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

7SQR03A is located upstream of the Iron River–Quinsam River confluence and downstream of mine-related discharges, including those from 7-South. The station was added to the 2025 baseline program to support evaluation of cumulative mine-related inputs in the lower portion of the Quinsam River upstream of the Iron River confluence. This area is also used as a recreational quad

trail and elk corridor. The benthic invertebrate samples were collected upstream of potential local disturbance, with sediment collected to support evaluation of cumulative downstream conditions.

Field data collection at Station 7SQR03A was executed in September 2025 at an operational elevation of 215 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 16.9 m, active wetted boundary width of 15.5 m, mean sectional depth of 0.36 m, and mean mid-channel velocity of 0.33 m/s.
- **Substrate Matrix Geometry:** Substrate was dominated by cobble (82%) with lesser pebble (16%) and boulder (2%).
- **Hydraulic and Riparian Structure:** This section of river contained a straight run and dense riparian vegetation with partial tree coverage.
- **Sediment Geochemistry:** Low organic content, 20% average moisture content; primarily sand (93%) and 6.8% silt; localized paste pH profile of 6.99.

Sediment chemistry at 7SQR03A is interpreted as part of the cumulative downstream assessment rather than as a direct point-source station. Any constituent elevations observed at this location must therefore be considered in the context of upstream background conditions, hydraulic sorting, and sediment depositional patterns, in addition to potential mine-related influence.

PAHs were measurable in low concentrations, with an average total PAH concentration of 0.068 mg/kg, with no averages or individual compound concentrations measuring above ISQG.

Copper concentrations were at the ISQG, averaging 35.7 mg/kg. Arsenic concentrations exceeded the ISQG (average 28.2 mg/kg, range between 33.3 mg/kg and 23 mg/kg), with a decrease from QRD-03 (Appendix A-2, Tables 12 - 36). Iron concentrations averaged 24,650 mg/kg. Copper, arsenic, and iron concentrations were highest on the right bank.

3.7 7SQ03 -DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

7SQ03 is located just upstream of the Iron River-Quinsam River confluence, downstream of mine-related discharges, including 7-South.

Field data collection at Station 7SQ03 was executed in September 2025 at an operational elevation of 197 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 21.5 m, active wetted boundary width of 19.9 m, mean sectional depth of 0.38 m, and mean mid-channel velocity of 0.16 m/s.
- **Substrate Matrix Geometry:** Substrate was dominated by cobble (60%) and pebble (28%), with minor gravel (4%)

- **Hydraulic and Riparian Structure:** The station was partially tree covered, dominated by small shrubs, and contained some aquatic plants and periphyton. There was abundant silty/sandy interstitial material, making sediment sample collection easier than at upstream stations. This section of river contained riffles, straight runs and pool eddy. The station was partially tree covered, dominated by small shrubs, and contained patches of thick brown to green algae.
- **Sediment Geochemistry:** Low organic content. 43% average moisture content; primarily sand (89%) and 9% silt: localized paste pH profile of 6.74

This area is frequented by elk, with a corridor upstream of the benthic invertebrate sampling location.

The total PAH concentration was 0.068 mg/kg, with one result for 2-methylnaphthalene (0.0490 mg/kg) higher than the ISQG.

Copper concentrations were below the ISQG, averaging 29.5 mg/kg. Arsenic concentrations were lower at 7SQ03 than at locations upstream (QRD-02 and QRD-03) but remained above ISQG and PEL (average 18.6 mg/kg and range from 11.6 mg/kg to 25.1 mg/kg). Iron concentrations averaged 25,220 mg/kg. Copper, arsenic, and iron concentrations were highest on the left bank. The left bank had less vegetation and a sandy stream side that was visibly disturbed by elk entering the river.

3.8 7SQR03B -DOWNSTREAM OF MINE INFLUENCE ON QUINSAM RIVER

7SQR03B is downstream of the Iron River–Quinsam River confluence and upstream of Lower Quinsam Lake, making it the furthest downstream station in the Quinsam River monitoring network. It was added to the 2025 baseline program to characterize cumulative conditions after upstream inputs from the Quinsam and Iron rivers combine, and to support future assessment of long-term passive mine-water discharge effects.

Field data collection at Station 7SQR03B was executed in September 2025 at an operational elevation of 168 masl. Morphological parameters recorded during the assessment include:

- **Channel Dimensions:** Bankfull stream width of 18.9 m, active wetted boundary width of 12.4 m, mean sectional depth of 0.30 m, and mean mid-channel velocity of 0.13 m/s.
- **Substrate Matrix Geometry:** Substrate consisted primarily of pebble (51%) and cobble (46%), with minor gravel (3%)
- **Hydraulic and Riparian Structure:** The station had no tree coverage, the dominant streamside vegetations are shrubs, and contained some aquatic plants and periphyton.
- **Sediment Geochemistry:** Low organic content, 22% average moisture content; primarily sand (98%) and 1.8% silt: localized paste pH profile of 7.15

Relative to upstream stations, this site had lower gradient and lower velocity, conditions that are more conducive to sediment retention and integration of cumulative upstream inputs. As such, this station is important for assessing whether any mine-related sediment signal persists at the downstream end of the monitored river reach.

The downstream position of 7SQR03B makes it particularly valuable for evaluating the overall health of the river. If mine-related sediment effects were substantial and persistent, broader and more consistent downstream increases in concentrations and guideline exceedances would be expected at this location. Instead, the overall dataset indicates that any mine-related influence on sediment quality remains limited, with downstream conditions reflecting a combination of upstream inputs, tributary dilution, sediment sorting, and natural background variability.

The total PAH concentration was 0.030 mg/kg, with no individual parameter results or averages higher than the ISQG.

Copper concentrations were below the ISQG (average 28.4 mg/kg). Arsenic concentrations remained above ISQG and PEL (average 21.8 mg/kg, range from 21.4 mg/kg to 22.1 mg/kg) and were lower at 7SQR03B than at locations upstream (QRD02 and QRD03). Iron concentrations averaged 24,650 mg/kg. Copper, arsenic, and iron concentrations had similar concentrations on both riverbanks.

4.0 PARAMETERS OF INTEREST (POI)

Sediment chemistry results from the 2016, 2021, and 2025 monitoring programs were evaluated for POI identified in previous Quinsam River studies and commonly associated with coal-mine-affected environments. Parameters evaluated are arsenic, copper, iron, and select PAHs (naphthalene, 2-methylnaphthalene, acenaphthene, and phenanthrene). Results were compared to CCME ISQG and PEL. Spatial and temporal trends are illustrated in below in Figures 4 - 1 to 4 - 3 and 4 - 5 to 4 - 8.

4.1 ARSENIC

Arsenic was the primary parameter of concern across all monitoring years, with trends shown in Figure 4-1:

- In 2016, exceeded the ISQG (5.9 mg/kg) at all sites and frequently exceeded the PEL (17 mg/kg). Concentrations were elevated at WA, QRD-02, and 7SQ03, indicating both background and downstream influences.
- In 2021, concentrations were lower than in 2016 but remained above the ISQG at downstream stations. Localized PEL exceedances persisted at QRD-02, while QRD-03 exhibited lower concentrations, indicating attenuation.

- In 2025, concentrations were higher than in previous years at several downstream locations, and were highest at QRD-02, where all samples exceeded the PEL and one sample exhibited an anomalously high concentration (suggestive of a laboratory error, outlier, or seepage influence). Concentrations decreased progressively downstream of QRD-02.

These patterns demonstrate a combination of natural background arsenic and localized enrichment associated with groundwater seepage, with attenuation evident downstream.

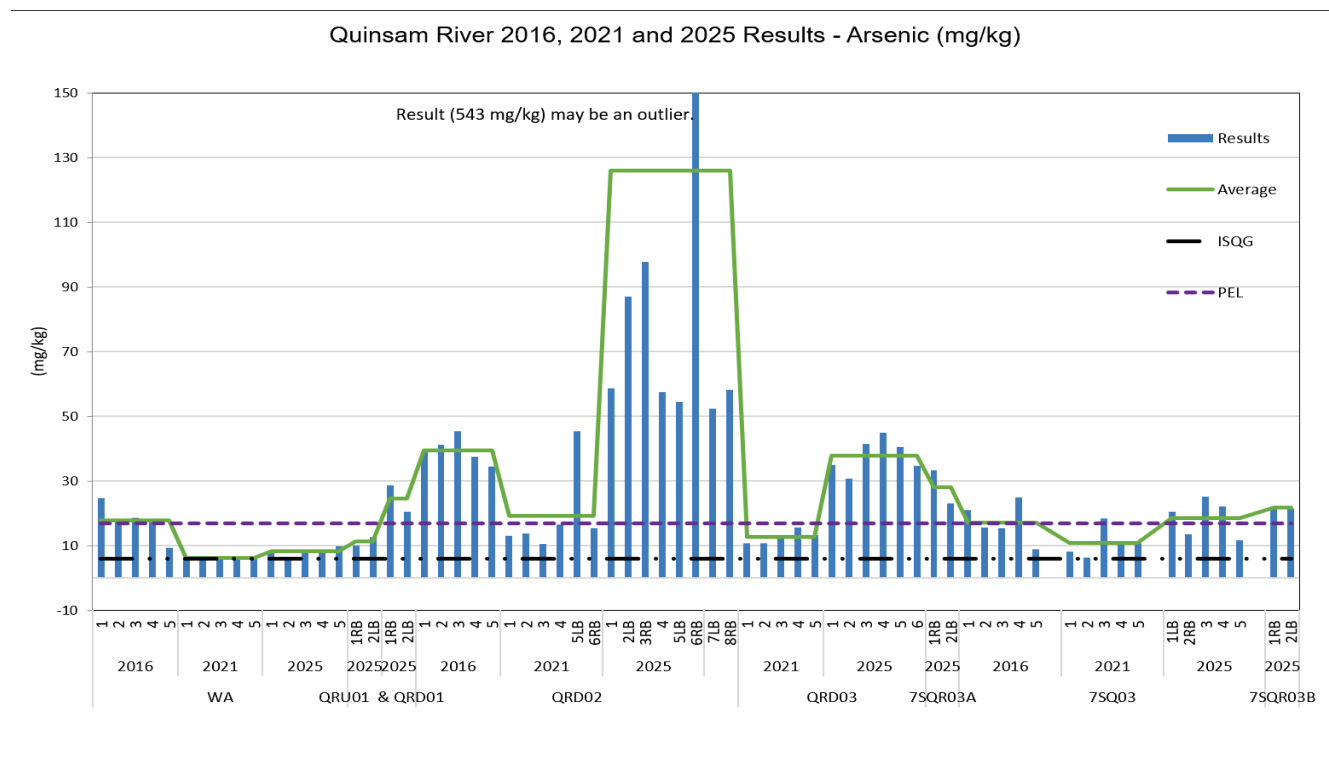


Figure 4.1: Arsenic 2016, 2021 to 2025

4.2 COPPER

Copper concentrations showed a consistent spatial pattern across all years (Figure 4-2):

- Above the ISQG (35.7 mg/kg) and below the PEL (197 mg/kg) consistently at the upstream reference station WA in 2016, 2021, and 2025.
- Lower concentrations downstream of WA, below ISQG, with minor exceedances at QRD-02 in some years.

This spatial trend indicates that elevated copper concentrations primarily reflect natural background conditions rather than a persistent mine-related signal.

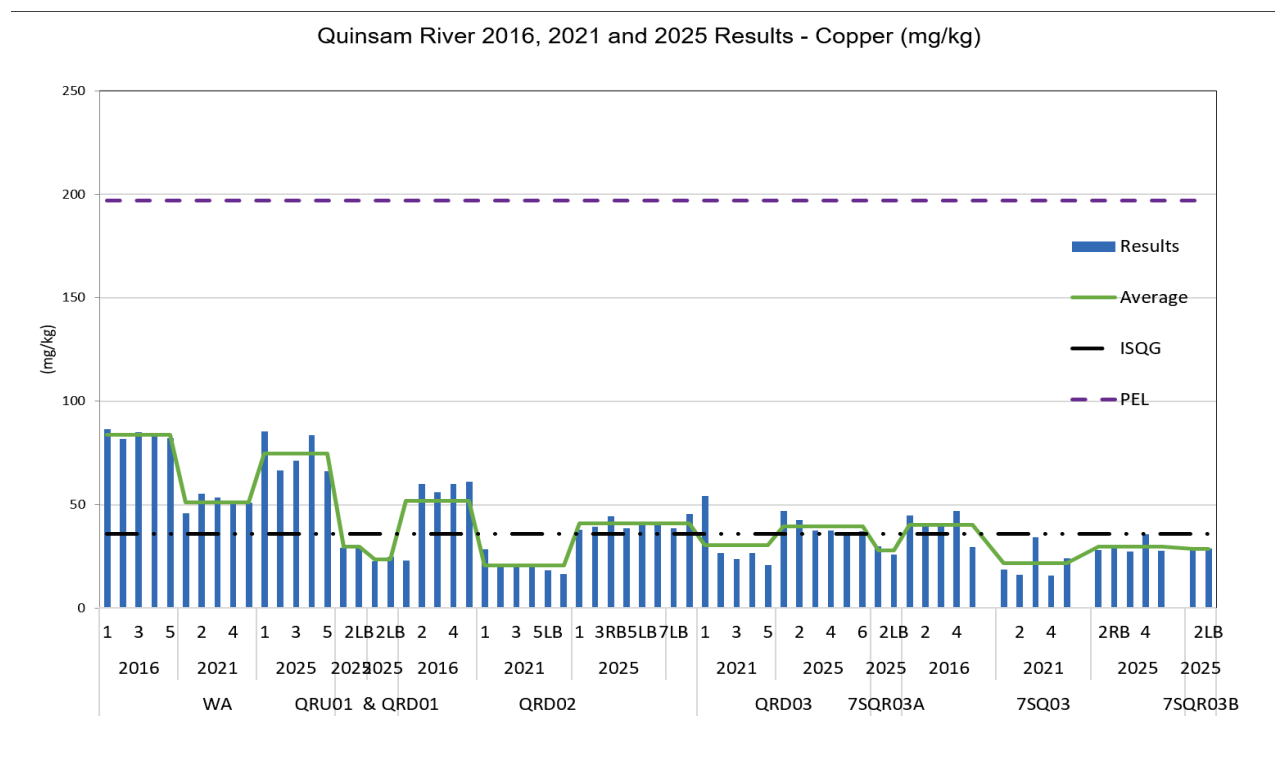


Figure 4.2: Copper 2026, 2021 and 2025

4.3 IRON

Iron does not have CCME sediment quality guidelines and is evaluated as POI (Figure 4-3).

- Iron concentrations were consistently highest at WA and generally declined downstream (exception was a peak at QRD-02, similar in concentration to WA).
- Elevated iron concentrations coincided with elevated arsenic concentrations at QRD-02, suggesting arsenic adsorption to iron oxides.

Iron concentrations reflect natural sediment mineralogy and depositional processes and are not interpreted as indicators of adverse sediment quality.

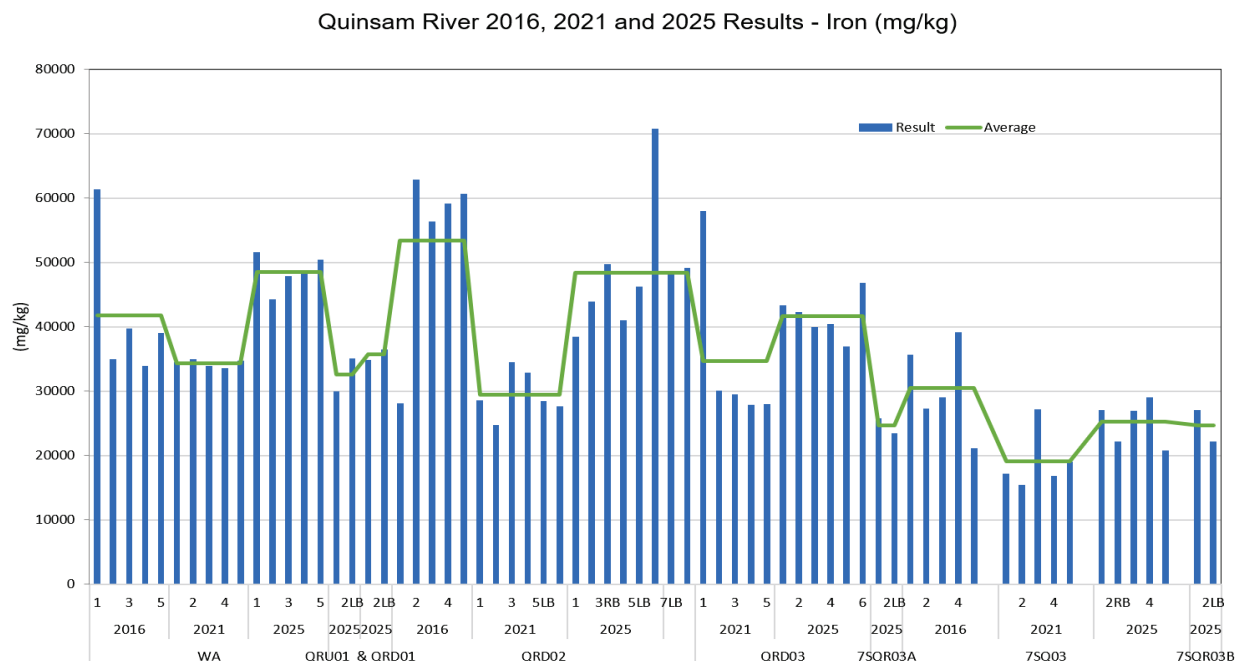


Figure 4.3: Iron 2016, 2021 and 2025

4.3.1 Iron Accumulation Indexation

As part of the 2025 study, an iron accumulation indexation survey was performed at all locations except WA. The study was driven by mine closure activities, specifically the 2-North and 7-South underground areas. Mine water being released (for temporary testing in 2024–2025 and future passive discharge after closure) contains elevated iron. Iron deposition in the river was identified as a key potential long-term impact of mine closure.

The iron accumulation study was designed to:

1. Measure how much iron is building up in the river
2. Track where it accumulates (especially downstream of discharge points)
3. Establish a baseline (2025) to compare against future years after full closure
4. Support long-term monitoring and management decisions.

The riverbed near the RBP discharge contains mostly coarse material (cobbles, boulders, bedrock) with limited fine sediment, limiting the usefulness of sediment concentrations alone to indicate a mine source of iron. Hence, a specific field method to measure iron directly on riverbed surfaces was added to the sediment analysis.

At monitoring stations, the methods used were as follows:

- Crews sampled both riverbanks (discharge may remain on one side before mixing)
- They assessed visible accumulation of iron on:
 - cobbles and boulders
 - bedrock surfaces
 - fine sediments (where present)

The Iron Index is a 0–1 scale that measures both how much iron is coating the riverbed and how strongly it is binding it together. Crews evaluated the rocks on visible staining and how easily it could be scratched off. The below is the index used:

- 0 – 0.5 → little to no iron staining on substrates
- 0.51 - 0.99 → moderate staining on substates
- >1.00 → active accumulation + physical habitat degradation

The iron accumulation survey results were variable across the study area (score of 0.41 to 0.88) and showed weak evidence of a discharge-related pattern (Figure 4-4). The highest iron index was observed immediately downstream of the RBP discharge at station QRD01 (0.88), with another relatively elevated value at QRD03 (0.75), which may indicate localized iron deposition within the near-field mixing zone. However, upstream conditions (QRU01 = 0.61) were similar to several downstream stations (e.g., 7SQR03B = 0.64 and 7SQR03A = 0.62), and some downstream locations had lower values (e.g., 7SQ03 = 0.41, QRD02 = 0.48). Overall, the data do not show a consistent downstream increase or clear spatial trend in iron accumulation.

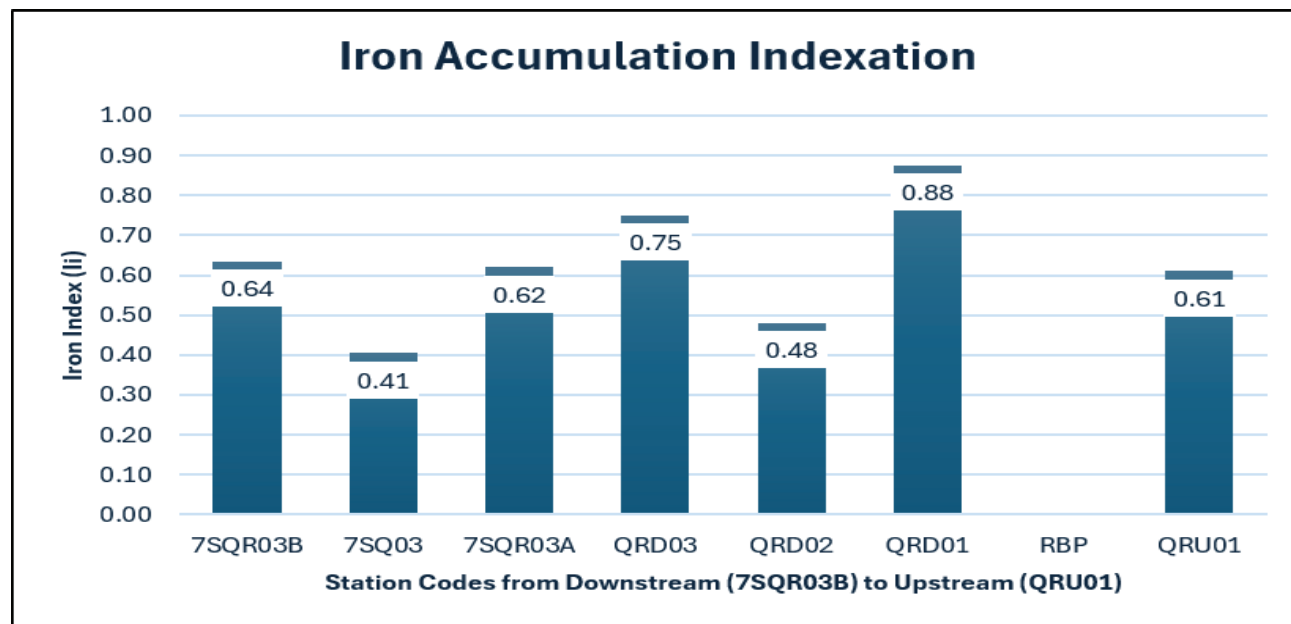


Figure 4.4: Iron Accumulation Indexation Survey 2025

Interpretation of the results is confounded by methodological uncertainty. While conducting the survey alongside the CABIN pebble count, it was difficult to distinguish iron precipitates from periphyton growth and potential rhodamine dye staining, which may have influenced visual scoring and overestimated index values. As a result, while there is some indication of localized effects near the discharge, the dataset as a whole is inconclusive and reflects a combination of natural variability and measurement limitations rather than a clear, system-wide impact.

4.4 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

PAHs were detected at low concentrations across all years (Figure 4-5 through 4-8):

- Average total PAH ranged from 0.0073 mg/kg (WA) to 0.17 mg/kg (QRU-01) in 2025
- Minor ISQG exceedances for naphthalene and 2-methylnaphthalene occurred intermittently at QRD-02, QRD-03, and 7SQ03, notably in 2021 and 2025.
- Concentrations of acenaphthene and phenanthrene were generally below ISQG, with isolated exceedances.
- No PAH concentrations exceeded the PEL at any site or in any year.

PAH concentrations were low, with sporadic and localized peaks and no evidence of increasing trends or downstream accumulation.

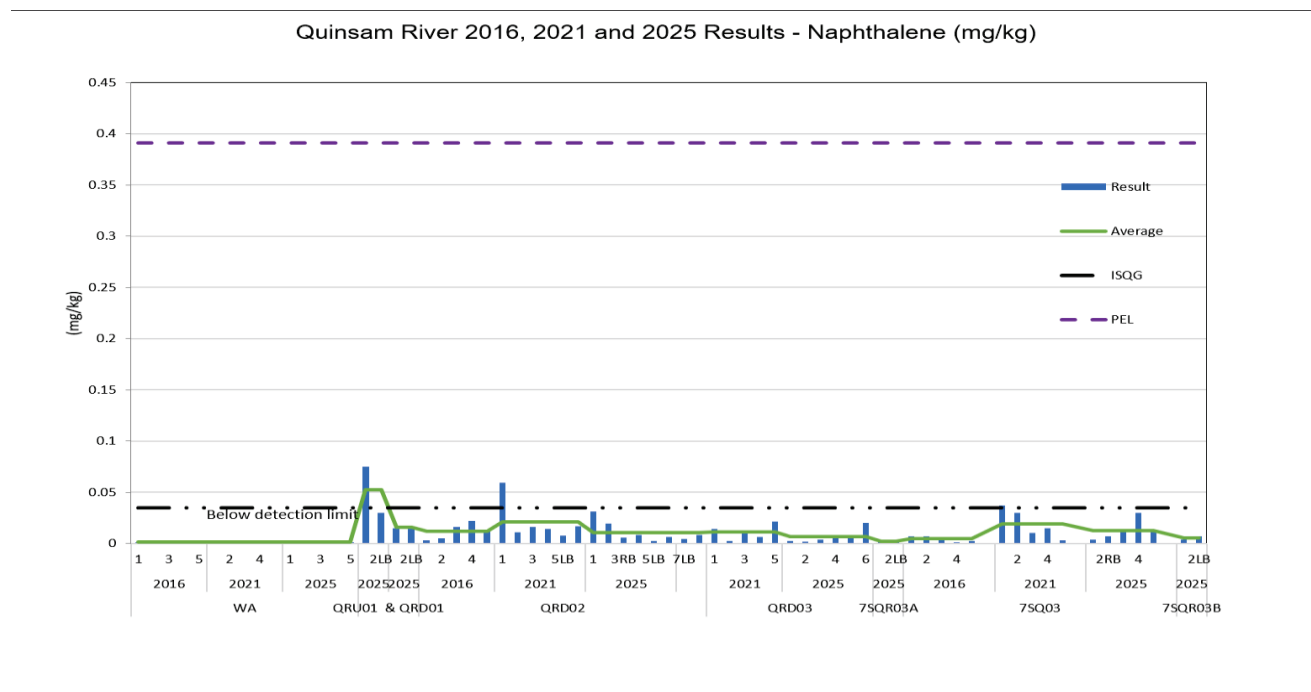


Figure 4.5: Naphthalene 2016, 2021 and 2025

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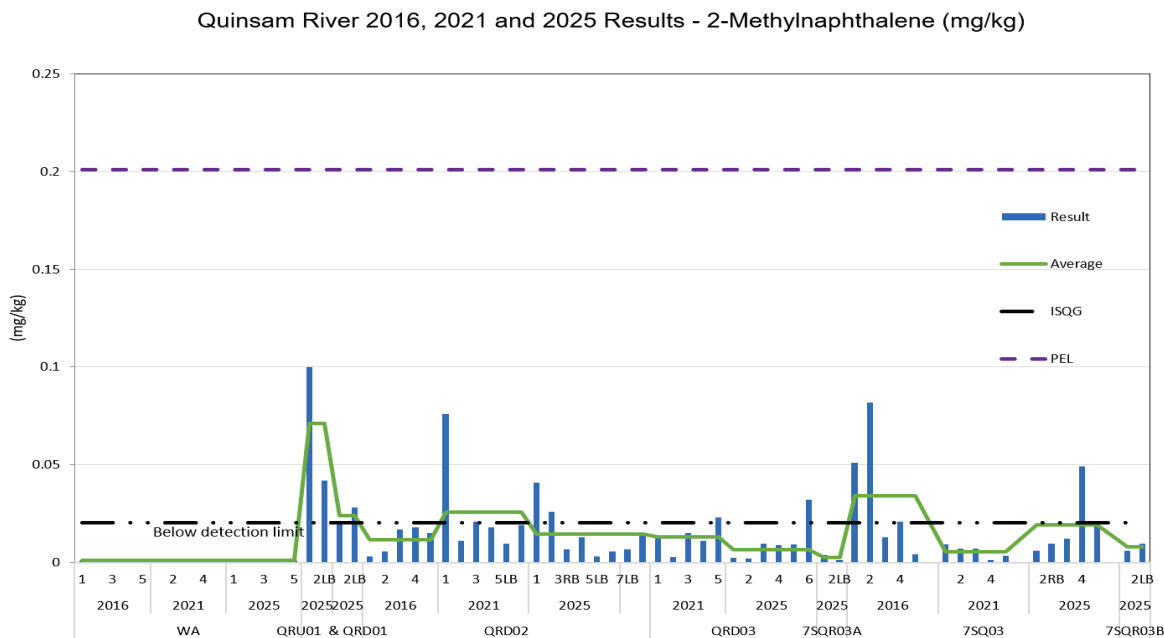


Figure 4.6: 2-Methylnaphthalene 2016, 2021 and 2025

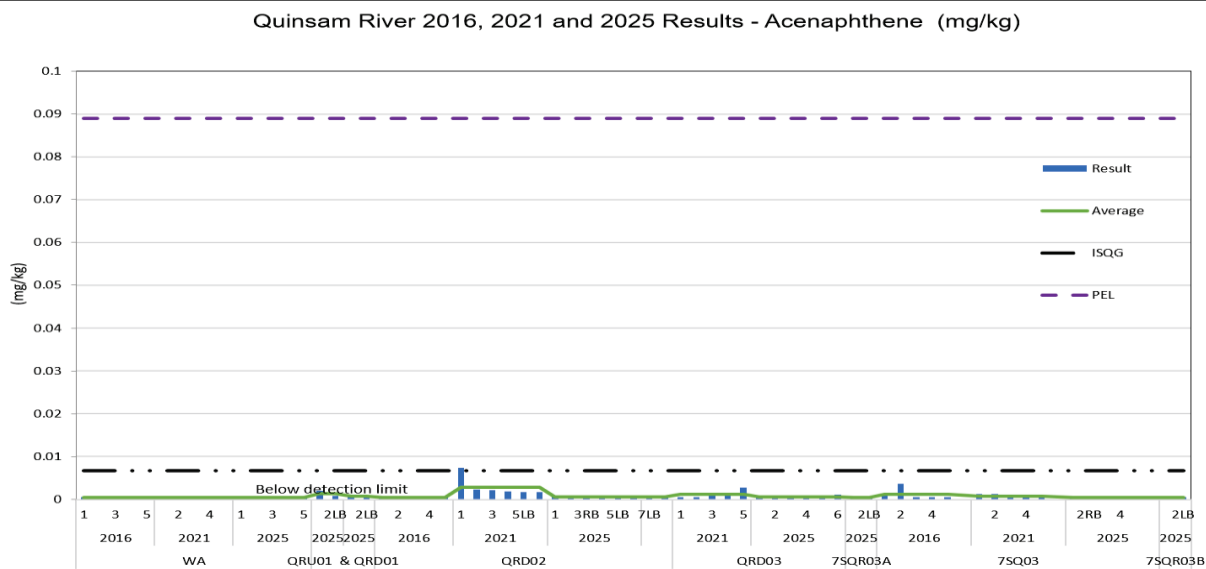


Figure 4.7: Acenaphthene 2016, 2021 and 2025

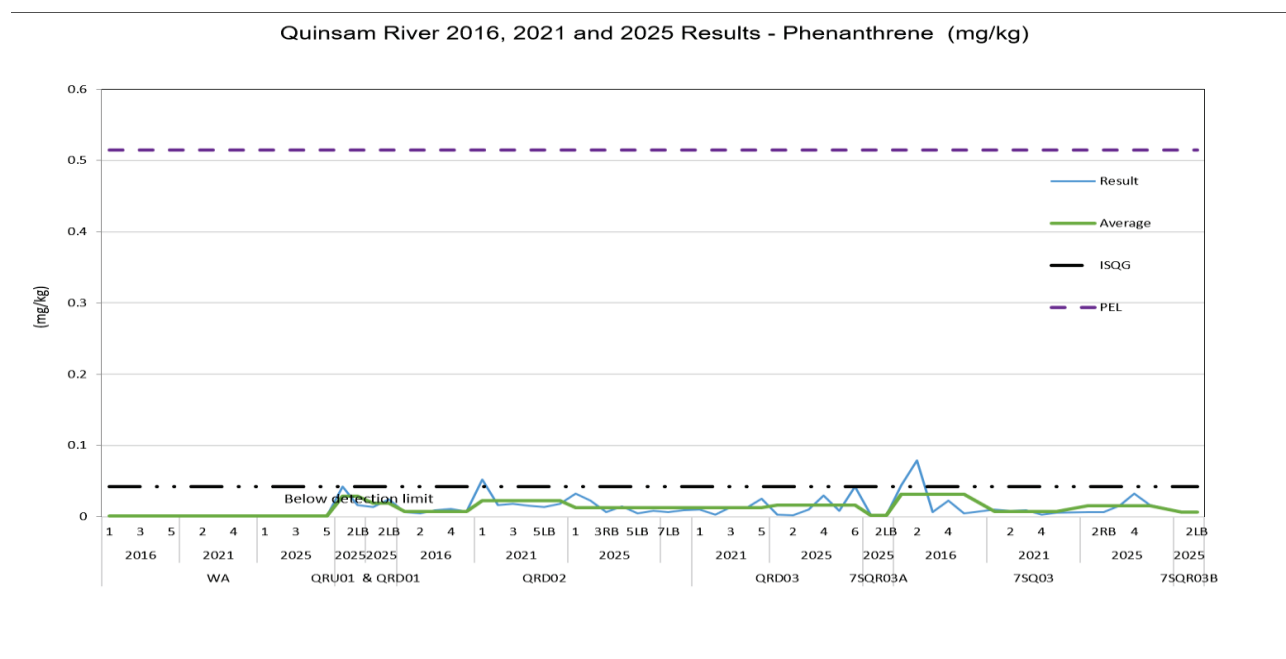


Figure 4.8: Phenanthrene 2016, 2021 and 2025

5.0 SUMMARY OF PARAMETER OF INTEREST TRENDS

Across the 2016, 2021, and 2025 monitoring programs, arsenic was the primary parameter of interest in Quinsam River sediments. Concentrations exceeded CCME ISQG at WA and QRU-01, with PEL exceedances at the six stations downstream of QRU-01, and highest concentrations at QRD-02, where groundwater seepage appears to influence sediment chemistry. Arsenic concentrations decreased progressively downstream, indicating attenuation.

Copper ISQG exceedances were most evident at the upstream reference station (WA) and generally decreased downstream, supporting interpretation as a natural background condition.

Iron concentrations were highest at WA and declined downstream, reflecting natural sediment mineralogy and likely influencing arsenic distribution in sediment through adsorption to iron oxides.

PAHs were detected at low concentrations, with occasional ISQG exceedances but no PEL exceedances for individual compounds and no evidence of temporal increase or downstream accumulation.

Overall, the POI results indicate that sediment quality effects are localized, parameter-specific, and non-persistent. The dataset does not indicate progressive downstream accumulation. These

findings are consistent with the benthic invertebrate results (Section 7), which generally show mild divergence from reference conditions and no widespread ecological impairment.

6.0 QUALITY CONTROL FOR SPLIT SAMPLES

Two sediment split samples were collected in 2025 to evaluate analytical precision, consisting of one split pair at WA (WA2-28AUG25-M and WA2-28AUG25-S) and one at 7SQ03 (7SQ03A-3SEP25-M and 7SQ03A-3SEP25-S). A total of 66 analytes with paired numeric results were assessed using relative percent difference (RPD) in accordance with standard BC ENV quality control practices. Of these, 23 analytes (26.4%) had RPD values greater than 20%, and 3 analytes (3.4%) exceeded 50%. When applying the 5× detection-limit screening criterion, 64 RPDs were considered valid for QA/QC interpretation; 14 of these (21.9%) exceeded 20%, and 2 (3.1%) exceeded 50%. Elevated RPDs were limited and were most notable for select metals and moisture/TOC, with the highest values observed for molybdenum and potassium at WA2. Overall, the exceedances were not widespread or systematic across both split pairs, and the split sample results generally indicate acceptable analytical precision for the 2025 sediment monitoring program. Detailed RPD results are displayed in Table 6-1.

Relative Percent Difference (RPD) was calculated using the following equation:

$$RPD = \frac{|C_1 - C_2|}{\left(\frac{C_1 + C_2}{2}\right)} \times 100$$

where C_1 is the parent sample concentration and C_2 is the corresponding split sample concentration.

Table 6-1: Split Sample Greater Than 20% Relative Percent Difference (RPD)

Station	Sample Date	Parameter Name	Units	Result 1	Result 2	DL 1	DL 2	RPD >20(%)
WA2	28-Aug-2025	Total Aluminum (Al)	mg/kg	23500	29600	50	50	23.0
WA2	28-Aug-2025	Total Arsenic (As)	mg/kg	6.35	8.96	0.10	0.10	34.1
WA2	28-Aug-2025	Total Copper (Cu)	mg/kg	66.6	85.8	0.50	0.50	25.2
WA2	28-Aug-2025	Total Lead (Pb)	mg/kg	2.49	3.21	0.10	0.10	25.3
WA2	28-Aug-2025	Total Manganese (Mn)	mg/kg	615	790	0.20	0.20	24.9
WA2	28-Aug-2025	Moisture	%	14	18	0.30	0.30	25.0
WA2	28-Aug-2025	Total Molybdenum (Mo)	mg/kg	3.81	0.65	0.10	0.10	141.7
WA2	28-Aug-2025	Total Potassium (K)	mg/kg	254	467	50	50	59.1
WA2	28-Aug-2025	Total Strontium (Sr)	mg/kg	79.5	54.4	0.10	0.10	37.5
WA2	28-Aug-2025	Total Titanium (Ti)	mg/kg	2420	2980	1.0	1.0	20.7
WA2	28-Aug-2025	Total Uranium (U)	mg/kg	0.295	0.367	0.050	0.050	21.8
WA2	28-Aug-2025	Total Organic Carbon (C)	%	1.2	0.90	0.050	0.050	28.6
7SQ03A	03-Sep-2025	Total Boron (B)	mg/kg	9.4	7.3	1.0	1.0	25.1
7SQ03A	03-Sep-2025	Total Lead (Pb)	mg/kg	3.14	2.34	0.10	0.10	29.2

DL = Detection Limit

Note: Elevated RPD values occur at low concentrations near analytical detection limits and do not indicate systematic analytical bias.

7.0 BENTHIC INVERTEBRATES

In 2025, benthic invertebrates were sampled following CABIN protocols at eight stations in the Quinsam River (WA, QRU-01, QRD-01, QRD-02, QRD-03, 7SQR03A, 7SQ03 and 7SQR03B) (Table 1-1 and Figure 1-3). QRU-01, QRD-01, 7SQR03A and 7SQR03B were added in 2025 to provide baseline data for future discharges from the Mine derisking, closure and long-term discharging activities such as RBPTS. Sampling stations and rationale are described in Section 1. Photographs are included in **Attachment C**.

CABIN protocols were also followed for sampling conducted in 2016 and 2021 at WA, QRD-02 (called QRDS1 in 2016), and 7SQ03 (called 7SQR in 2016 and 2021) and for sampling conducted in 2021 at QRD-03 (Table 1-1).

WA is the reference station upstream of Middle Quinsam Lake and reflects background conditions. QRU-01 represents baseline for the RBPTS mine-related discharge and QRD-01 represents the near field station for future RBP TS mine-related discharge. QRD-02 and QRD-03 are downstream of potential effects from the RBPTS, North Mine Site and 7 South Mine Site, with QRD-03 also

downstream of seepage areas (Section 1). 7SQR03A, 7SQ03, and 7SQR03B represent the furthest downstream stations on the Quinsam River, where influence from all mine related discharges is captured. 7SQR03A and 7SQ03 are upstream of the Iron River confluence. 7SQR03B is downstream of the Iron River and upstream of Lower Quinsam Lake.

7.1 METHODS

7.1.1 Field Methods

Benthic invertebrate samples and associated habitat characteristics were collected following the Environment and Climate Change Canada CABIN protocol (Environment Canada 2012). At each station, riffle habitat substrates were kicked for three minutes while traversing from bank to bank in a zigzag pattern, with flow carrying invertebrates into a kicknet (CABIN standard kicknet with 400-micron mesh size) positioned downstream. Large and deeply embedded rocks were rubbed by hand to loosen organisms. The net was removed from the water and the sample rinsed carefully into a container, taking care to remove organisms clinging to the net (using forceps). Samples were preserved with 10% buffered Formalin in a 1:3 ratio (Formalin: sample). Samples were labelled inside and outside with station code, date, and jar numbering (1 of 3, 2 of 3, etc.). Sampling information (person kicking, typical depth of kicked area, sampling date and time, number of jars used per sample) was recorded on field sheets. Habitat data (channel morphology, canopy cover, substrate, water velocity, and canopy cover) were collected following CABIN protocols. Laboratory methods for benthic invertebrates are listed in **Attachment D**. Habitat parameters and measurements are listed in **Attachment E**.

In situ water quality parameters (temperature, pH, dissolved oxygen, conductivity) were measured at the time of benthic community sampling using a multi-meter parameter.

7.1.2 Laboratory Methods

Samples were sent to Biologica Environmental Services Ltd. in Victoria BC for specimen enumeration and taxonomy analysis to the lowest practical level. Biologica was responsible for sample reception, sorting, identification, and QA/QC (sorting and sub-sampling efficiency). The taxonomists met the CABIN certification requirements. The detailed Methods and QA/QC report from Biologica is included in **Attachment D**. Samples were subsampled using a Marchant Box, with a minimum of 300 organisms counted or a minimum of five cells sorted. If there were fewer than 300 organisms in 50% of the sample, the entire sample was sorted. Organisms were identified to species or lowest practicable level, which represents additional effort over the standard taxonomic effort required by CABIN protocols (genus, family, class, or phylum depending on the group), (**Attachment F**).

Sorting efficiency was assessed as an average of 99% efficiency. Taxonomic error was assessed as an average of 0%. Both the sorting efficiency and taxonomic error rate were within the acceptable limits for CABIN laboratory methods.

7.1.3 Data Analysis Methods

Taxonomic data were analyzed using the Reference Condition Approach (RCA) and for community metrics using the CABIN data analysis tools. Data from 2016, 2021, and 2025 (Table 1-1) were analyzed using the Vancouver Island Updated Model (Somers et al. 2021) (the Model). The Model replaces the Preliminary BC Coastal RCA Model (Gaber 2012) that was previously used for the 2016 and 2021 benthic invertebrate assessments (Quinsam Coal Corporation 2017, 2022). The benthic invertebrate community data from 2016, 2021, and 2025 were assessed using the Model to facilitate assessments over time.

The Model uses 125 reference and potential reference site samples collected from across Vancouver Island between 2001 and 2019, reflecting the ecozones and stream orders (1 to 11) on Vancouver Island. In the Model, reference site invertebrate communities are classified into one of four reference groups with similar family level composition. The Model was used to predict the ‘test site’ invertebrate communities at the eight stations to a reference group using habitat predictor variables (bankfull width, altitude), GIS derived variables (stream order, stream length), climate variables (degree days and August precipitation), topography variables (watershed maximum elevation and minimum elevation), and a bedrock feature (percent volcanic bedrock). The GIS derived variables were developed following the Technical Documentation for GIS Tools for Upstream Watershed Analysis (Steves 2021).

Ordination probability ellipses (90%, 99%, and 99.9%) were used to assess how similar or divergent the Quinsam River communities were from the reference condition as follows:

- Stations within the 90% probability ellipse are characterized as ‘Similar to Reference’
- Stations that fall between the 90% and 99% probability ellipses are characterized as ‘Mildly Divergent’
- Stations that fall between the 99% and 99.9% probability ellipses are characterized as ‘Divergent’
- Stations falling outside the 99.9% probability ellipse are characterized as ‘Highly Divergent’

Since 10% of the reference sites fall outside the 90% probability ellipse, a Quinsam River station may also fall outside the 90% ellipse and be characterized as Mildly Divergent or Divergent from the reference condition (Type I error).

Data were also summarized for taxa richness, EPT taxa richness, Simpson’s Index of Diversity, and Pielou’s Evenness using CABIN data assessment tools (Government of Canada 2026). EPT taxa richness is the total number of taxa within the “pollution sensitive” orders Ephemeroptera (mayflies), Plecoptera (stoneflies), and Trichoptera (caddisflies). Taxa richness and EPT taxa richness decrease with decreasing habitat quality (e.g., warm water, low dissolved oxygen, high organic matter, fine substrates) (Weber 1973). The diversity and evenness indices provide information about structure of the community (number of taxa and their distribution of relative

abundance). The indices range from 0 to 1, with the maximum value representing the maximum diversity and evenness in the community.

7.2 RESULTS

7.2.2 Habitat

Habitat characteristics at the stations are presented in **Attachment E**, with some of the 2025 data summarized in Table 7-1 and Table 7-2. WA is the furthest upstream station, QRU-01, QRD-01, QRD-02, and QRD-03 are intermediate stations, and 7SQR03A, 7SQ03, and 7SQR03B are the furthest downstream stations. Characteristics are as follows:

- Elevation and mean velocity were highest at WA and lowest at 7SQR03B, while bankfull width was lowest at WA and highest at 7SQ03, reflecting their upstream and downstream locations in the watershed.
- QRD-03 had the lowest wetted width and highest mean depth
- 7SQ03 had the highest wetted width
- QRD-01 also had very low mean depth compared to the other stations
- Substrate composition was somewhat coarser at upstream sites (e.g., WA, and QRD-02) and finer at downstream sites (7SQ03 and 7SQR03B) (**Attachment B**). At upstream sites, cobble was predominant and boulder was common. At the furthest downstream sites cobble and pebble substrates were predominant and boulder was absent.
- Lower stream gradient and water velocity at 7SQR03A, 7SQ03, and 7SQR03B, which would result in greater sediment deposition than at upstream sites, potentially providing favourable habitat for pollution tolerant taxa at those stations.
- Higher periphyton coverage at QRD-02, 7SQR03A, 7SQ03, and 7SQR03B than the other stations

Historical and recent logging in the upper watershed may have contributed to long-term changes in river conditions. Downstream of the mine, stations 7SQR03A, 7SQ03, and 7SQR03B showed evidence of localized wildlife and human activity, including disturbance associated with elk crossings and all-terrain vehicle trail crossings.

In-situ water quality data collected during sampling in 2025 are listed in Table 7-2. Variations indicate differences between headwater and downstream locations, as well as the impact of mining discharge on water quality:

- Water temperatures decreased from 20.7 °C at WA and 20.1 at 7SQ03 to 15.7°C at 7SQR03B, with the spatial trend partly explained by mine-related groundwater inputs downstream of WA and by air temperatures and timing of sampling (August at WA, September at the other sites).
- Water temperatures in 2025 were warmer than previously reported at corresponding sites: at WA and 7SQ03, up to 5 °C warmer than in 2016 and 2021; at QRD-02 and QRD-03, and up to 2.5 °C warmer than in 2016 and 2021(Quinsam Coal Corporation 2017, 2022).

- The pH values were circumneutral (~7).
- Dissolved oxygen concentrations ranged from 7.0 milligrams per litre (mg/L) at QRD-03 to 8.95 mg/L at WA.
- Conductivity was lowest at WA (36.0 microsiemens per centimetre [$\mu\text{S}/\text{cm}$]) and highest at 7SQ03 (192.1 $\mu\text{S}/\text{cm}$).

Habitat predictor variables used in the Model are presented in Table 7-3. The GIS derived habitat variables for the stations were consistent among sampling dates. Field measured habitat variables showed variability, dependent on where elevation or bankfull width data points were collected:

- Habitat predictor variables that decreased from the upstream reference station (WA) to the furthest downstream station (7SQR03B) were station elevation (302 metres above sea level [masl] to 168 masl), minimum watershed elevation (293 masl to 186 masl), August precipitation (63 millimetre [mm] to 59.6 mm), and percent volcanic bedrock in the watershed (62 % to 45%).
- Habitat predictor variables that increased from the upstream reference station (WA) to the furthest downstream station (7SQR03B) were degree days (1118 days to 1237 days), stream length (108,750 metres [m] to 263,381 m), and bankfull width (11 m to 25 m).
- Habitat predictor variables remaining consistent between station locations and sampling dates were stream order (4) and maximum watershed elevation (1,752 masl).

Table 7-1: Habitat Characteristics of Benthic Invertebrate River Stations, 2025

Station	Date	Elevation (masl)	Bankfull Width (m)	Wetted Width (m)	Mean Velocity (m/s)	Mean Depth (m)	Substrate (% composition)*			
							B	C	G	P
WA	Aug	302	11.1	9.4	0.71	0.25	3	69	3	25
QRU-01	Sep	254	14.3	11.0	0.32	0.35	8	61	4	27
QRD-01	Sep	230	14.3	11.4	0.54	0.04	13	55	6	25
QRD-02	Sep	216	15.9	15.2	0.42	0.30	40	54	1	5
QRD-03	Sep	205	18.0	6.8	0.53	0.64	3	47	6	43
7SQR03A	Sep	215	16.9	15.5	0.33	0.36	2	82	0	16
7SQ03	Sep	197	21.5	19.9	0.16	0.38	0	60	4	28
7SQR03B	Sep	168	18.9	12.4	0.13	0.30	0	46	3	51
Notes:										
masl = metres above sea level; m = metres; m/s = metres per second										
* B=boulder, C=cobble, G=gravel, P= pebble										

Table 7-2: In Situ Water Quality at Benthic Invertebrate River Stations, 2025

Station	Date	Temperature (°C)		pH	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)
		Air	Water			
WA	Aug	25.0	20.7	7.2	36.0	8.95
QRU-01	Sep	17.8	18.5	7.6	174.4	7.54
QRD-01	Sep	18.5	18.8	7.7	181.4	7.90
QRD-02	Sep	17.4	19.4	7.7	119.9	7.62
QRD-03	Sep	20.0	19.6	7.2	121.4	7.00
7SQR03A	Sep	19.0	19.7	7.0	119.8	7.08
7SQ03	Sep	24.0	20.1	7.1	192.1	8.48
7SQR03B	Sep	14.0	15.7	7.4	179.0	8.17
Notes: µS/cm = micro siemens per centimeter; mg/L = milligrams per litre						
2016 and 2021 temperatures (Quinsam Coal Corporation 2017 and 2021):						
- WA =16 °C and 17.4 °C						
- QRD-02 = 17 °C and 18.5 °C						
- 7SQ03 = 15 °C and 15.4 °C						

Table 7-3: Vancouver Island Updated Model Reference Condition Approach Habitat Predictor Variables

Station	Sampling Date	Elevation (masl)	Degree Days (days)	Elevation Max (masl)	Elevation Min (masl)	Aug Precipitation (mm)	Stream Order	Stream Length (m)	Percent Volcanic Bedrock (%)	Bankfull Width (m)
WA	Sep 2016	302	1117.6	1752	293	63.0	4	108,750.2	62.4	11.1
	Sep 2021	297								12.7
	Aug 2025	297								11.7
QRU-01	Sep 2025	254	1205.5		233	60.9		151,421.7	49.6	14.3
QRD-01	Sep 2025	230	1205.5		223	60.8		151,997.2	49.5	14.3
QRD-02	Sep 2016	216	1208.5			60.8		152,354.7	49.2	16.1
	Sep 2021									15.9
	Sep 2025									18.7
QRD-03	Sep 2021	212	1208.5		216	60.8		153,097.6	49.1	18.0
	Sep 2025	205								16.6
7SQR03A	Sep 2025	215	1248.9		195	59.9		172,697.1	45.4	16.9
7SQ03	Sep 2016	197	1251.2		195	59.8		172,697.1	45.5	25.4 (21.5) *
7SQ03	Sep 2021									20.5
7SQ03 (7SQR03)	Sep 2025									21.5
7SQR03B	Sep 2025	168	1236.5		186	59.6		263,381.1	45.3	18.9
Notes										
masl = metres above sea level, m = metres, mm = millimetres										
* Bankfull width of 25.4 m is the value measured in 2016. The 2025 bankfull width of 21.5 m was used in the reference condition approach assessment.										

7.3 BENTHIC INVERTEBRATE COMMUNITY

The benthic invertebrate community data were evaluated using the Vancouver Island Updated Model RCA model (Somers et al. 2021). Model results are summarized in Table 7-4. Table 7-5 presents a summary of the 2025 community metrics at the family level. Figure 7-1 provides an overview of community composition in 2016, 2021, and 2025. The 2025 taxonomic data from Biologica are provided in **Attachment F**.

Table 7-4: Reference Condition Approach Assessments, 2016, 2021 and 2025

Station	Year	Reference Group	Probability	Vector 1 vs 2	Vector 1 vs 3	Vector 2 vs 3	Overall
WA	2016	3	0.44	Mildly Divergent	Mildly Divergent	Similar to Reference	Mildly Divergent
	2021	3	0.43	Similar to Reference	Similar to Reference	Similar to Reference	Similar to Reference
	2025	3	0.47	Mildly Divergent	Similar to Reference	Mildly Divergent	Mildly Divergent
QRU-01	2025	3	0.54	Mildly Divergent	Mildly Divergent	Similar to Reference	Mildly Divergent
QRD-01	2025	3	0.46	Mildly Divergent	Mildly Divergent	Similar to Reference	Mildly Divergent
QRD-02	2016	3	0.38	Similar to Reference	Mildly Divergent	Similar to Reference	Mildly Divergent
	2021	3	0.40	Mildly Divergent	Similar to Reference	Divergent	Divergent
	2025	3	0.40	Mildly Divergent	Mildly Divergent	Similar to Reference	Mildly Divergent
QRD-03	2021	3	0.40	Similar to Reference	Similar to Reference	Mildly Divergent	Mildly Divergent
	2025	3	0.42	Similar to Reference	Mildly Divergent	Mildly Divergent	Mildly Divergent
7SQR03A	2025	3	0.50	Mildly Divergent	Mildly Divergent	Similar to Reference	Mildly Divergent
7SQ03*	2016	3	0.38	Mildly Divergent	Mildly Divergent	Mildly Divergent	Mildly Divergent
	2021	3	0.39	Mildly Divergent	Similar to Reference	Mildly Divergent	Mildly Divergent
	2025	3	0.38	Similar to Reference	Similar to Reference	Similar to Reference	Similar to Reference
7SQR03B	2025	3	0.42	Mildly Divergent	Similar to Reference	Similar to Reference	Mildly Divergent
Notes: *7SQR 2016 sample was predicted with 35% probability to Reference Groups 3 and 4 using the measured bankfull width of 25 m. It was subsequently predicted to Reference Group 3 (38% probability) using the 2021 bankfull width of 21.5 m.							

The eight stations were predicted to have a 38% to 54% probability of belonging to Reference Group 3 (Table 7-4) based on habitat predictor variables. The 2025 benthic community at 7SQ03 was assessed as being Similar to reference condition, while communities at the other stations in 2025 were assessed as being Mildly Divergent (Table 7-4). A discussion of the 2025 results follows.

7.3.1 Benthic Invertebrate Communities in 2025

Station WA

Station WA, the upstream reference station, was predicted to have a 47% probability of being in Reference Group 3 and the 2025 benthic community was assessed as being Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3 communities, the invertebrate community at WA had lower EPT richness and EPT abundance (Table 7-5 and Figure 7-1). In 2025, the invertebrate community was dominated by Diptera and non-insects (77%), followed by Ephemeroptera (13%) and Coleoptera (6%) (Figure 7-1). The most common taxa were the tolerant taxon Simuliidae (blackfly family in Diptera, 33%), the clitellate worm *Nais* sp. (12%), and the Ephemeroptera family Baetidae (7%) (Table 7-5).

The Mild Divergence of the WA community from reference communities and the predominance of tolerant taxa reflect background habitat conditions such as velocity, water or sediment quality that can influence the invertebrate community. In 2025, the dissolved copper concentration in water was above the Chronic-WQG and total copper and arsenic in sediment were higher than the ISQG; the 2025 copper levels were higher than at downstream stations (Section 3.1), consistent with 2016 and 2021 data (Quinsam Coal Corporation 2017, 2022).

The community at WA differed notably in 2025 from those reported in 2016 and 2021, when the community was dominated by EPT taxa (Figure 7-1). Based on the similar water and sediment quality over that period, a change in community composition would not be expected. Although the reason for change in invertebrate community is not known, it is possible that the higher water temperatures measured in 2025 (20.7 °C) compared to 2016 (16 °C) and 2021 (17.4 °C) influenced the community in 2025 (Table 7-2).

Station QRU-01

Station QRU-01 was predicted to have a 54% probability of being in Reference Group 3 and the benthic community was assessed as being Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3, the invertebrate community at QRU-01 had lower EPT richness and Simpsons diversity, higher percent Ephemeroptera (65%) and Coleoptera (3%), and lower Plecoptera (4%), Trichoptera (2%), and Diptera plus non-insects (26%) (Table 7-5 and Figure 7-1). The dominant taxa were Ephemeroptera family Baetidae (47%) followed by Diptera family Simuliidae (8%) and *Baetis* sp. (*Ephemeroptera*) (Table 7-5).

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Table 7-5: Benthic Invertebrate Community Family-Level Metrics, Quinsam River, 2025

Metric	WA	QRU-01	QRD-01	QRD-02	QRD-03	7SQR03A	7SQ03	7SQR03B	Reference Group 3 Average (±Standard Deviation)
Total Abundance	1,689	2,523	4,162	1,768	3,355	461	4,800	6,480	1,525±1,020
Family Richness	20	22	21	25	23	22	24	26	20±4
EPT Richness	6	8	11	10	11	6	9	10	11±2
% EPT Abundance	16	71	43	71	64	30	33	39	64±21
Simpson's Diversity	0.8	0.6	0.7	0.7	0.8	0.9	0.9	0.9	0.8±0.1
Pielou's Evenness	0.7	0.6	0.5	0.6	0.7	0.8	0.8	0.9	0.7±0.1
Dominant Taxa (Percent Relative Abundance)									
1 st	Simuliidae indet. (Diptera) (33%)	Baetidae indet. (Ephemeroptera) (47%)	Simuliidae indet. (Diptera) (44%)	Baetidae indet. (Ephemeroptera) (35%)	Baetidae indet. (Ephemeroptera) (23%)	Ephemeroptera indet. (Ephemeroptera) (13%)	Baetidae indet. (Ephemeroptera) (9%)	Heptageniidae indet. (Ephemeroptera) (12%)	-
2 nd	<i>Nais</i> sp. (Tubificida) (12%)	Simuliidae indet. (Diptera) (8%)	Baetidae indet. (Ephemeroptera) (27%)	<i>Baetis</i> sp. (Ephemeroptera) (7%)	<i>Cryptolabis</i> sp. (Diptera) (11%)	Paraleptophlebia sp. (Ephemeroptera) (10%)	<i>Rheotanytarsus</i> sp. (Diptera) (8%)	<i>Nais</i> sp. (Tubificida) (9%)	-
3 rd	Baetidae indet. (Ephemeroptera) (7%)	<i>Baetis</i> sp. (Ephemeroptera) (7%)	<i>Baetis</i> sp. (Ephemeroptera) (3%)	Ephemeroptera indet. (Ephemeroptera) (6%)	Heptageniidae indet. (Ephemeroptera) (9%)	<i>Lebertia</i> sp. (Trombidiformes, water mite) (10%)	Lumbriculidae indet. (Lumbriculida) (7%)	Lumbriculidae indet. (Lumbriculida) (7%)	-

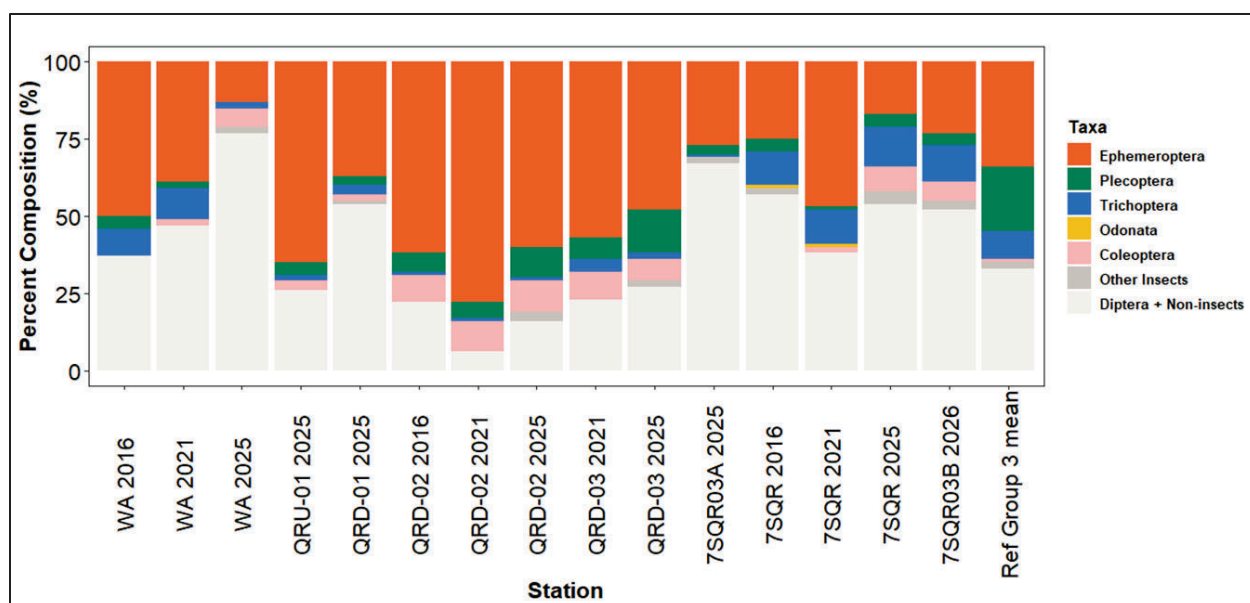


Figure 7.1: Benthic Invertebrate Community Composition at the Quinsam River Stations

Station QRD-01

The benthic community at QRD-01 was predicted to have a 46% probability of being in Reference Group 3 and was assessed as being Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3, the community had higher total abundance and percent Ephemeroptera (37%), Coleoptera (2%), and Diptera plus non-insects (54%), as well as a lower percent Plecoptera (3%) and Trichoptera (3%) (Table 7-2 and Figure 7-1). The dominant taxa were Diptera family Simuliidae (44%) and Ephemeroptera family Baetidae (30%) (Table 7-5). This station was notable for its shallow depth compared to the other stations (Table 7-1).

Station QRD-02

The benthic community at QRD-02 was predicted to have a 40% probability of being in Reference Group 3 and was assessed as being Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3, the community had higher family richness and percent Ephemeroptera (60%) and Coleoptera (9%), as well as lower percent Plecoptera (10%), Trichoptera (1%), and Diptera plus non-insects (16%) (Table 7-5 and Figure 7-1). The dominant taxa were Ephemeroptera from the family Baetidae (42%) and Ephemeroptera indeterminant (6%) (Table 7-5).

The community at QRD-02 also differed from stations further downstream (7SQR03A, 7SQR03, 7SQR03B), mainly in the greater percent Ephemeroptera. It is possible that mine discharges have affected the community at QRD02, given the elevated arsenic concentrations in sediment (Section 3-4). However, the community may also have been influenced by habitat differences such as higher boulder plus cobble content and water velocity at QRD-02 (Table 7-1). Mild Divergence from reference condition does not necessarily indicate degraded conditions, as the abundant pollution sensitive Ephemeroptera suggest no obvious adverse mine-related effect.

Station QRD-03

The community at QRD-03 was predicted to have a 42% probability of being in Reference Group 3 and was assessed as Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3, the benthic community had higher abundance (3,355 organisms/sample) and percent Ephemeroptera (48%) and Coleoptera (7%), along with lower percent Plecoptera (14%), Trichoptera (2%), and Diptera plus non-insects (27%) (Table 7-5 and Figure 7-1). The dominant taxa were Ephemeroptera family Baetidae (23%), crane fly family Tipulidae (11%), and Ephemeroptera family Heptageniidae (9%).

The invertebrate communities at QRD-03 and QRD-02 were similar in composition, suggesting similar habitat, water quality, and sediment quality influences at both stations (Section 3.5).

Station 7SQR03A

The benthic community at Station 7SQR03A was predicted to have a 50% probability of being in Reference Group 3 and was assessed as Mildly Divergent from the reference condition (Table 7-4). Compared to Reference Group 3, the community had lower invertebrate abundance (461 organisms/sample), EPT richness (6), and percent Ephemeroptera (27%), Plecoptera (3%) and Trichoptera (1%) with a higher percent Diptera plus non-insects (67%) (Table 7-5 and Figure 7-1). The dominant taxa were Ephemeroptera (12.6% indeterminate and 10% *Paraleptophlebia* sp.), and the mite *Lebertia* sp. (10%) (Table 7-5). The community at 7SQR03A was distinct from the other seven stations in its low total abundance and high number of taxa (17 taxa, 19% of the total identified) found only at this site (**Attachment F**).

Station 7SQ03

The benthic community at 7SQ03 was predicted to have a 38% probability of being in Reference Group 3 and was assessed as being Similar to the reference condition (Table 7-4). This was the only station assessed as Similar to the reference condition in 2025 (WA was assessed as Similar in 2021). Compared to Reference Group 3, the community at 7SQ03 had higher abundance (4,800 organisms/sample), higher percent Trichoptera (13%), Coleoptera (8%), and Diptera plus non-insects (54%), and lower percent Ephemeroptera (17%) and Plecoptera (4%) (Table 7-5 and Figure 7-1). The dominant taxa were Ephemeroptera Baetidae (9%), Diptera *Rheotanytarsus* sp. (8%), and Lumbriculidae worms (7%). The relative abundance of Lumbriculidae in the sample and presence of Meonemertea worms indicates presence of soft or muddy substrates or drifting of worms from the pool upstream of the sampling site (**Attachment C**).

Compared to 2025, the invertebrate community at 7SQ03 had lower abundance of EPT taxa than in 2016 and 2021 (Figure 7-1). Water temperature was 5° C higher in 2025 (20.1 °C) than in 2016 (15.0 °C) and 2021 (15.4 °C), as was noted for WA (Table 7-2), and may have influenced composition in 2025.

Station 7SQR03B

The benthic community at 7SQR03B was predicted to have a 42% probability of being in Reference Group 3 and was assessed as being Mildly Divergent from the reference condition. Compared to Reference Group 3, the community had higher invertebrate abundance (6,480

organisms/sample), family richness (26) and percent Trichoptera (12%), Coleoptera (6%), and Diptera plus non-insects (52%), along with lower percent Ephemeroptera (23%) and Plecoptera (4%) (Table 7-5 and Figure 7-1). The dominant taxa were the Ephemeroptera Heptageniidae (12%), clitellate worm *Nais sp.* (9%), and segmented worm Lumbriculidae (7%).

Community composition at 7SQR03B and 7SQ03 was similar, with slight differences in relative proportions. The abundance of Lumbriculidae in the sample indicates the presence of some muddy substrates or drift of worms from the pool upstream of the station (**Attachment C**).

7.3.2 Comparison of Historical Data

WA, QRD-02, and 7SQ03 were sampled in 2016 and 2021, and QRD-03 was added in 2021 (Quinsam Coal Corporation 2017, 2022); data were analyzed with the Preliminary BC Coastal RCA Model (Gaber 2012) in use at that time. The 2016 and 2021 data were re-assessed, along with the 2025 data, using the Vancouver Island Updated Model to identify trends over time. The stations were predicted to be within Reference Group 3 in the three years, except for the 7SQ03 sample taken in 2016, which at that time was predicted with almost equal probability to be in Reference Groups 3 and 4 on the basis of a measured bankfull width of 25 m (Table 7-4). During data re-assessment, the bankfull width of 21.4 m measured in 2025 at 7SQ03 was substituted in the 2016 dataset to force the 2016 sample to fall into Reference Group 3 and facilitate comparisons within Reference Group 3 (Table 7-4).

Trends over time were as follows

- Communities from WA, QRD-02, QRD-03, and 7SQ03 were assessed as Mildly Divergent from reference conditions in 2016, 2021, and 2025, except for WA in 2021 and 7SQ03 in 2025, which were assessed as Similar to reference condition, and QRD-02 in 2021, which was assessed as Divergent (Table 7-4).
- At WA, percent EPT abundance decreased from 63% in 2016 to 50% in 2021, and 15% in 2025, associated with decreasing abundance of Ephemeroptera and increased abundance of Diptera and non-insects.
- At QRD-02, percent EPT abundance was consistent between 2016 (70%), 2021 (84%), and 2025 (71%), with Ephemeroptera the most abundant taxa.
- At 7SQ03, percent EPT abundance varied, with 41% in 2016, 59% in 2021, and 33% in 2025.

As noted in Section 7.3.1, the reason for decline in EPT predominance and increase in Diptera and non-insects at WA (mainly Simuliidae) and 7SQ03 (various taxa) in 2025 is not known but may be associated with the higher water temperatures measured in 2025.

7.3.4 River Pillar Barrier Baseline

Two stations, QRU-01 and QRD-01 were added to the monitoring program in 2025 to provide baseline information about water and sediment quality and benthic invertebrate communities upstream and downstream of the discharge from the RBP Treatment System, a pilot mitigation measure implemented during mine closure. QRU-01 is approximately 930 m and QRD-01 is

approximately 360 m upstream of QRD-02, the nearest long-term station at which to assess potential future effects of RBP Treatment System discharges (Table 1-1 and Figure 1-3).

Benthic community characteristics were assessed at QRU-01, QRD-01, and QRD-02. The stations were predicted to be within Reference Group 3, and each was assessed as being Mildly Divergent from the reference condition (Table 7-4). While the three stations were similar in abundance, EPT richness, diversity, and evenness, there were some differences in composition. QRD-01 differed from QRU-01 and QRD-02 in the following ways:

- Lower taxon richness and EPT abundance at QRD-01
- Predominance of Simuliidae (blackfly larvae), with Baetidae (Ephemeroptera) common at QRD-01; Baetidae (Ephemeroptera) were predominant at QRU-01 and QRD-02.

Habitat and chemistry characteristics were investigated to identify possible factors that could influence benthic community composition at the three stations in 2025:

- Habitat was similar at the three stations in terms of bankfull and wetted widths, velocities, and substrate (predominance of boulder and cobble), but had higher % boulder at QRD-02
- Water depth at QRD-01 was notably lower than at the other two sites (Table 7-1).
- Water temperature, pH, and dissolved oxygen levels were similar at the three stations, although conductivity was lowest at QRD-01 (Table 7-2).
- Dissolved copper concentrations were higher than the Chronic-WQG of 0.00022 mg/L at the eight stations; at QRU-01, QRD-01, and QRD-02 they ranged from 0.00036 mg/L to 0.00044 mg/L and were lowest at QRD-01 (Section 3). These water concentrations reflect background conditions in the watershed.
- Total arsenic concentrations in sediment increased downstream, from 11.3 mg/kg at QRU-01 (above ISQG) to 24.5 mg/kg at QRD-01 (above PEL) to 126 mg/kg at QRD-02 (above PEL), reflecting mine-related influences such as groundwater seepage and discharge.
- Total copper concentrations in sediment were higher at QRD-02 (40.8 mg/kg, above the ISQG) than at QRU-01 (29.6 mg/kg) and QRD-01 (23.6 mg/kg), reflecting mine-related influences such as groundwater seepage and discharge.

The cause of the observed difference in benthic communities, with QRD-01 having more Simuliidae and fewer Ephemeroptera than upstream at QRU-01 or downstream QRD-02, is not clear, given that general habitat and water quality characteristics are similar, and that the higher sediment arsenic and copper concentrations, which might be expected to adversely affect the communities, are reported at QRD-02.

The variability in baseline benthic community characterization noted in 2025 at QRU-01 and QRD-01 may lead to some challenges in future monitoring programs in confirming an influence of discharges from the RBPTS. An additional year of monitoring prior to full operation of the treatment system would be helpful in expanding the baseline dataset.

7.3.5 Summary

In the 2025 benthic invertebrate monitoring, seven of the Quinsam River stations had communities assessed as Mildly Divergent from the reference condition for the assigned Reference Group 3 and one station (7SQ03, downstream) was assessed as Similar to Reference Group 3. Benthic communities were influenced by factors not related to Quinsam Mine (e.g., background water temperatures, levels of copper in water and sediment, and stream substrates) and were potentially influenced by mine-related factors (e.g., cooling effect of groundwater discharge, arsenic levels in sediment). For example, QRD-02 and QRD-03 (downstream of discharges and groundwater releases) had low Plecoptera and Trichoptera abundance relative to Reference Group 3, while maintaining high predominance of pollution sensitive Ephemeroptera. Also, the benthic communities at 7SQR03, 7SQ03, and 7SQ03B, further downstream of Quinsam Mine, were assessed as Mildly Divergent from or Similar to Reference Group 3, as was noted for the upstream reference station WA and intervening stations, indicating overall limited adverse effects of Quinsam Mine on health of benthic invertebrate communities

Spatial trends for the Quinsam River stations in 2025 were as follows (Table 7-5):

- Abundance ranged from 461 organisms/sample at 7SQR03A to 6,480 organisms/sample at 7SQR03B.
- Family-level richness ranged from 20 taxa at WA to 26 taxa at 7SQR03B.
- EPT richness (family level) ranged from 6 at WA and 7SQR03A to 11 at QRD-03.
- Simpson's Diversity Index ranged from 0.6 at QRU-01 to 0.9 at 7SQ03 and 7SQR03 reflecting diverse communities.
- Pielou's Evenness Index ranged from 0.6 at QRU-01 and QRD-02 to 0.9 at 7SQR03, reflecting moderate to highly even communities.
- EPT abundance ranged from 16% at WA to 64% to 71% at QRU-01, QRD-03 and QRD-02.

The Quinsam River stations generally had total abundance within the range of Reference Group 3, except for one downstream station (7SQR03A), which had lower abundance. Diptera plus non-insects, which typically are common in areas of poorer habitat (e.g., warmer water temperatures, low oxygen, and fine substrates), had higher relative abundance at upstream WA and downstream 7SQR03A, 7SQ03 and 7SQR03B. EPT taxa, associated with better habitat (e.g., cooler water temperature, well oxygenated waters, and coarse substrates) dominated the benthic communities at QRU-01, QRD-02, and QRD-03 (downstream of the cool groundwater discharge at the RBP well discharge at site S and within the zone of S2 seepage discharge). The exception was at QRD-01, with higher Diptera plus non-insects compared to EPT (water depth was lower than at the other two stations). Communities at QRU-01, QRD-02, and QRD-03 had low Plecoptera and Trichoptera abundance relative to Reference Group 3. These results suggest that mine discharges

(including a cooling effect), background water temperature and substrates may influence invertebrate communities in the Quinsam River, notably at QRD-01, QRD-02 and QRD-03.

8.0 INTEGRATED SEDIMENT AND BIOLOGICAL INTERPRETATION

Water quality during the late summer sampling period was similar among the eight stations for most parameters, with dissolved copper the only parameter with concentrations higher than the Chronic-WQG in 2025 at the eight stations. Concentrations were highest at WA, the upstream reference station. Hence, variations in water quality at that time of year did not appear to be mine-related or to affect the benthic invertebrate community. Copper concentrations in sediment were also highest at WA, and were higher than the ISQG at that site, but not downstream. Sediment and water data indicate a background source for copper in the Quinsam River.

Arsenic concentrations in sediment were higher than the ISQG at WA and QRU-01 and increased to levels above the PEL at stations downstream of QRU-01 in 2025. Concentrations were highest at QRD-02 (in the area receiving groundwater seepage from the mine). Concentrations decreased downstream but remained above the PEL. Iron levels were also elevated in some of the sediment samples collected at QRD-02, suggesting the higher arsenic concentrations are bound to the iron. The decreases in arsenic and iron downstream of QRD-02 indicate consistent downstream attenuation and do not suggest persistent effects downstream of the mine.

Total PAH concentrations in sediment were low in 2025, with average values ranging from 0.007 mg/kg (WA) to 0.064 mg/kg and 0.068 mg/kg at QRD-01 and 7QR03A, respectively. Although naphthalene, 2-methylnaphthalene, acenaphthylene, and phenanthrene were occasionally higher than their ISQG, total concentrations were low and did not suggest a widespread effect.

The results for benthic invertebrate communities support an interpretation of limited adverse mine-related effects, including the elevated arsenic concentrations downstream of QRU-01:

- Seven stations were assessed as Mildly Divergent and one (7SQ03) was assessed as Similar to the reference condition (Reference Group 3).
- Family richness and EPT taxa richness were higher than the average values for Reference Group 3, indicating good diversity in the communities.
- Pollution-sensitive EPT organisms were predominant through the mid-reaches (QRU-01 through QRD-03) and common at the downstream stations (7SQR03A, 7SQ03, 7SQR03B), mainly Ephemeroptera, with lower percent Plecoptera and Trichoptera than represented in Reference Group 3.

Variations in habitat characteristics (**Attachment E**) may have contributed to some of the observed differences in benthic invertebrate communities among the eight stations. For example, Simuliidae (blackfly family) were predominant at WA and common at QRD-01 and various aquatic worm

species were common at 7SQR03A, 7SQ03, and 7SQR03B. Habitat variations included the following:

- Higher water temperatures in 2025 than in 2016 and 2021, with a 5 °C increase at WA and 7SQ03 and a 2 °C to 2.5 °C increase at the other stations
- Highest water velocity at WA, lowest at 7SQR03A, 7SQ03, and 7SQR03B
- Cool groundwater inputs around QRD-02 and QRD-03
- Low water levels at QRD-01
- Maximum boulder content at QRD-02
- Lower stream gradient and water velocity at 7SQR03A, 7SQ03, and 7SQR03B, which would result in greater sediment deposition than at upstream sites, potentially providing favourable habitat for aquatic worms at those stations.
- Higher periphyton coverage at QRD-02, 7SQR03A, 7SQ03, and 7SQR03B than the other stations
- The presence of elk crossings and all-terrain vehicle trails at downstream sites 7SQR03A, 7SQ03, and 7SQR03B, which could cause habitat disturbance and sediment mobilization in the area.

In conclusion, the biological communities support diverse communities of benthic invertebrates, including predominance of pollution-sensitive taxa at many of the monitoring stations. These results do not show patterns of impairment consistent with widespread sediment contamination. It is not known whether the arsenic in sediments of the Quinsam River is bioavailable or in a form that contributes to toxicity to aquatic organisms. However, the benthic community results do not suggest toxicity and tests conducted on rainbow trout and *Daphnia magna* as part of mine effluent monitoring have shown no acute toxicity at 100% effluent concentration (2025-2026 Annual Water Quality Monitoring Report, Appendix III).

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Attachment A Quinsam River Water Chemistry for Sediment Sampling, 2025

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		WA		WA	
Sampled Date From Sampled Date To Projects		2025/08/27 2025/09/19 WQ Quinsam River Cabin and Sediment Project		COC# Bureau Veritas Job # Sample ID		8556151 C574320 WA-27AUG25-M DRW954		8556151 C574320 WA-27AUG25-R DRW955	
Criteria 1		BC Approved WQG - Acute		Matrix		Water		Water	
Criteria 2		N/A							
Report Group	Parameter Name	Criteria 1	Units	Result	DL	Result	DL		
Elements by Atomic Spectroscopy	pH		pH	7.17	N/A	7.04	N/A		
	Nitrite (N)	0.06	mg/L	<0.0050	0.005	<0.0050	0.005		
	Nitrate (N)	32.8	mg/L	<0.020	0.02	<0.020	0.02		
	Acidity (pH 4.5)		mg/L	<1.0	1	<1.0	1		
	Acidity (pH 8.3)		mg/L	2	1	1.7	1		
	Alkalinity (PP as CaCO3)		mg/L	<1.0	1	<1.0	1		
	Alkalinity (Total as CaCO3)		mg/L	24	1	24	1		
	Bicarbonate (HCO3)		mg/L	30	1	29	1		
	Carbonate (CO3)		mg/L	<1.0	1	<1.0	1		
	Hydroxide (OH)		mg/L	<1.0	1	<1.0	1		
	Sulphate (SO4)		mg/L	1.3	1	1.3	1		
	Nitrate plus Nitrite (N)		mg/L	<0.020	0.02	<0.020	0.02		
	Total Suspended Solids		mg/L	<1.0	1	<1.0	1		
	Turbidity		NTU	0.6	0.1	0.19	0.1		
	Dissolved Organic Carbon (C)		mg/L	2	0.5	1.9	0.5		
	Dissolved Phosphorus (P)		mg/L	<0.0030	0.003	<0.0030	0.003		
	Total Organic Carbon (C)		mg/L	2	0.5	2.1	0.5		
	Total Phosphorus (P)		mg/L	<0.0030	0.003	<0.0030	0.003		
	Chloride (Cl)		600	mg/L					
	Bromide (Br)			mg/L					
	Dissolved Fluoride (F)		0.4	mg/L					
	Elements by Atomic Spectroscopy	Dissolved Hardness (CaCO3)		mg/L	23.2	0.5	22.9	0.5	
		Dissolved Aluminum (Al)		mg/L	0.0118	0.003	0.0133	0.003	
		Dissolved Antimony (Sb)	0.25	mg/L	<0.00050	0.0005	<0.00050	0.0005	
		Dissolved Arsenic (As)		mg/L	0.00013	0.0001	0.00014	0.0001	
		Dissolved Barium (Ba)		mg/L	<0.0010	0.001	<0.0010	0.001	
Dissolved Beryllium (Be)			mg/L	<0.00010	0.0001	<0.00010	0.0001		
Dissolved Bismuth (Bi)			mg/L	<0.0010	0.001	<0.0010	0.001		
Dissolved Boron (B)			mg/L	<0.050	0.05	<0.050	0.05		
Dissolved Cadmium (Cd)		0.00002	mg/L	<0.000010	0.00001	<0.000010	0.00001		
Dissolved Chromium (Cr)			mg/L	<0.0010	0.001	<0.0010	0.001		
Dissolved Cobalt (Co)		0.11	mg/L	<0.00020	0.0002	<0.00020	0.0002		
Dissolved Copper (Cu)		0.00141	mg/L	0.00052	0.0002	0.00055	0.0002		
Dissolved Iron (Fe)		0.35	mg/L	0.012	0.005	0.0118	0.005		
Dissolved Lead (Pb)			mg/L	<0.00020	0.0002	<0.00020	0.0002		
Dissolved Lithium (Li)			mg/L	<0.0020	0.002	<0.0020	0.002		
Dissolved Manganese (Mn)		0.76	mg/L	<0.0010	0.001	<0.0010	0.001		
Dissolved Molybdenum (Mo)		46	mg/L	<0.0010	0.001	<0.0010	0.001		
Dissolved Nickel (Ni)		0.0117	mg/L	<0.00010	0.0001	<0.00010	0.0001		
Dissolved Selenium (Se)			mg/L	<0.00010	0.0001	<0.00010	0.0001		
Dissolved Silicon (Si)			mg/L	1.94	0.1	1.95	0.1		
Dissolved Silver (Ag)		0.0001	mg/L	<0.000020	0.00002	<0.000020	0.00002		
Dissolved Strontium (Sr)			mg/L	0.0127	0.001	0.0123	0.001		
Dissolved Thallium (Tl)			mg/L	<0.000010	0.00001	<0.000010	0.00001		
Dissolved Tin (Sn)			mg/L	<0.0050	0.005	<0.0050	0.005		
Dissolved Titanium (Ti)			mg/L	<0.0050	0.005	<0.0050	0.005		
Dissolved Uranium (U)			mg/L	<0.00010	0.0001	<0.00010	0.0001		
Dissolved Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Zinc (Zn)	0.0128	mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Zirconium (Zr)		mg/L	<0.00010	0.0001	<0.00010	0.0001			
Dissolved Calcium (Ca)		mg/L	7.88	0.05	7.74	0.05			
Dissolved Magnesium (Mg)		mg/L	0.852	0.05	0.867	0.05			
Dissolved Potassium (K)		mg/L	0.065	0.05	0.059	0.05			
Dissolved Sodium (Na)		mg/L	0.688	0.05	0.69	0.05			
Dissolved Sulphur (S)		mg/L	<3.0	3	<3.0	3			
LEGEND									
Exceedance									
Bold & Red									
Red with White Text									
Highlighted									
Exceeds Both Criteria									
DL > Criteria									

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		WA		WA	
Sampled Date From	2025/08/27	Sampled Date To	2025/09/19	Bureau Veritas Job #		8556151		8556151	
Projects	WQ Quinsam River Cabin and Sediment Project			Sample ID		C574320		C574320	
Criteria 1	BC Approved WQG - Acute			Bureau Veritas Sample ID		DRW954		WA-27AUG25-R	
Criteria 2	N/A			Matrix		Water		Water	
Report Group	Parameter Name	Units	Criteria 1	Sampling Date	Result	DL	Result	DL	DL
Elements by Atomic Spectroscopy	Total Hardness (CaCO3)	mg/L			23.2	0.5	21.6	0.5	
	Total Aluminum (Al)	mg/L			0.0188	0.003	0.0184	0.003	
	Total Antimony (Sb)	mg/L	0.25		<0.0050	0.0005	<0.0050	0.0005	
	Total Arsenic (As)	mg/L			0.00013	0.0001	0.00015	0.0001	
	Total Barium (Ba)	mg/L			<0.0010	0.001	<0.0010	0.001	
	Total Beryllium (Be)	mg/L			<0.00010	0.0001	<0.00010	0.0001	
	Total Bismuth (Bi)	mg/L			<0.0010	0.001	<0.0010	0.001	
	Total Boron (B)	mg/L			<0.050	0.05	<0.050	0.05	
	Total Cadmium (Cd)	mg/L			<0.000010	0.00001	<0.000010	0.00001	
	Total Chromium (Cr)	mg/L			<0.0010	0.001	<0.0010	0.001	
	Total Cobalt (Co)	mg/L	0.11		<0.0020	0.002	<0.0020	0.002	
	Total Copper (Cu)	mg/L			0.00057	0.0005	0.00072	0.0005	
	Total Iron (Fe)	mg/L	1		0.018	0.01	0.018	0.01	
	Total Lead (Pb)	mg/L			<0.00020	0.0002	<0.00020	0.0002	
	Total Lithium (Li)	mg/L			<0.0020	0.002	<0.0020	0.002	
	Total Manganese (Mn)	mg/L	0.76		0.0021	0.001	0.0018	0.001	
	Total Molybdenum (Mo)	mg/L	46		<0.0010	0.001	<0.0010	0.001	
	Total Nickel (Ni)	mg/L			<0.0010	0.001	<0.0010	0.001	
	Total Selenium (Se)	mg/L			<0.00010	0.0001	<0.00010	0.0001	
	Total Silicon (Si)	mg/L			2.06	0.1	1.92	0.1	
	Total Silver (Ag)	mg/L	0.0001		<0.000020	0.00002	<0.000020	0.00002	
	Total Strontium (Sr)	mg/L			0.0131	0.001	0.0122	0.001	
	Total Thallium (Tl)	mg/L			<0.000010	0.00001	<0.000010	0.00001	
	Total Tin (Sn)	mg/L			<0.0050	0.005	<0.0050	0.005	
	Total Titanium (Ti)	mg/L			<0.0050	0.005	<0.0050	0.005	
	Total Uranium (U)	mg/L			<0.00010	0.0001	<0.00010	0.0001	
	Total Vanadium (V)	mg/L			<0.0050	0.005	<0.0050	0.005	
	Total Zinc (Zn)	mg/L			<0.0050	0.005	<0.0050	0.005	
	Total Zirconium (Zr)	mg/L			<0.00010	0.0001	<0.00010	0.0001	
Elements by Atomic Spectroscopy	Total Calcium (Ca)	mg/L			7.94	0.05	7.33	0.05	
	Total Magnesium (Mg)	mg/L			0.831	0.05	0.803	0.05	
	Total Potassium (K)	mg/L			0.054	0.05	0.054	0.05	
	Total Sodium (Na)	mg/L			0.674	0.05	0.679	0.05	
	Total Sulphur (S)	mg/L			<3.0	3	<3.0	3	
	Low Molecular Weight PAH's	ug/L			<0.10	0.1	<0.10	0.1	
	High Molecular Weight PAH's	ug/L			<0.050	0.05	<0.050	0.05	
	Total PAH	ug/L			<0.10	0.1	<0.10	0.1	
	Quinoline	ug/L			<0.020	0.02	<0.020	0.02	
	Naphthalene	ug/L	1		<0.10	0.1	<0.10	0.1	
	1-Methylnaphthalene	ug/L	1		<0.050	0.05	<0.050	0.05	
	2-Methylnaphthalene	ug/L	1		<0.10	0.1	<0.10	0.1	
	Acenaphthylene	ug/L			<0.050	0.05	<0.050	0.05	
	Acenaphthene	ug/L			<0.050	0.05	<0.050	0.05	
	Fluorene	ug/L	12		<0.050	0.05	<0.050	0.05	
Semivolatile Organics by GC-MS	Phenanthrene	ug/L			<0.050	0.05	<0.050	0.05	
	Anthracene	ug/L			<0.010	0.01	<0.010	0.01	
	Acridine	ug/L			<0.050	0.05	<0.050	0.05	
	Fluoranthene	ug/L			<0.020	0.02	<0.020	0.02	
	Pyrene	ug/L			<0.020	0.02	<0.020	0.02	
	Benzo(a)anthracene	ug/L			<0.010	0.01	<0.010	0.01	
	Chrysene	ug/L	0.1		<0.020	0.02	<0.020	0.02	
	Benzo(b&j)fluoranthene	ug/L			<0.030	0.03	<0.030	0.03	
	Benzo(k)fluoranthene	ug/L			<0.050	0.05	<0.050	0.05	
	Benzo(a)pyrene	ug/L			<0.0050	0.005	<0.0050	0.005	
	Indeno(1,2,3-cd)pyrene	ug/L			<0.050	0.05	<0.050	0.05	
	Dibenz(a,h)anthracene	ug/L			<0.0030	0.003	<0.0030	0.003	
	Benzo(g,h,i)perylene	ug/L			<0.050	0.05	<0.050	0.05	
LEGEND									
					Exceedance				
					Exceeds Both Criteria				
					Bold & Red				
					Red with White Text				

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		QR001		QR001		QR001	
Sampled Date From		2025/08/27		COCH		20250917-01		20250916-01		20250916-01	
Sampled Date To		2025/09/19		Bureau Veritas Job #		C579268		C578888		C578888	
Projects		WQ Quinsam River Cabin and Sediment Project		Sample ID		QR001-17SEP25-M		QR001-16SEP25-M		QR001-16SEP25-R	
Criteria 1		BC Approved WQG - Acute		Bureau Veritas Sample ID		DTE362		DTE684		DTB685	
Criteria 2		N/A		Matrix		Water		Water		Water	
Report Group		Parameter Name		Sampling Date		Result		DL		Result	
pH		pH		Units		DL		DL		DL	
Elements by Atomic Spectroscopy	Nitrite (N)	0.06	mg/L	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050
	Nitrate (N)	32.8	mg/L	0.02	<0.020	0.02	<0.020	0.02	<0.020	0.02	<0.020
	Acidity (pH 4.5)		mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Acidity (pH 8.3)		mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Alkalinity (PP as CaCO3)		mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Alkalinity (Total as CaCO3)		mg/L	44	44	1	44	1	43	1	43
	Bicarbonate (HCO3)		mg/L	53	53	1	53	1	53	1	53
	Carbonate (CO3)		mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Hydroxide (OH)		mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Sulphate (SO4)		mg/L	39	39	1	39	1	39	1	39
	Nitrate plus Nitrite (N)		mg/L	0.02	<0.020	0.02	<0.020	0.02	<0.020	0.02	<0.020
	Total Suspended Solids		mg/L								
	Turbidity		NTU	0.37	0.1	0.37	0.48	0.1	0.33	0.1	0.33
	Dissolved Organic Carbon (C)		mg/L	1.8	0.5	1.8	2.3	0.5	2.3	0.5	2.3
	Dissolved Phosphorus (P)		mg/L	<0.0030	0.003	<0.0030	<0.0030	0.003	<0.0030	0.003	<0.0030
Total Organic Carbon (C)		mg/L	2	0.5	2	2.2	0.5	2.2	0.5	2.2	
Total Phosphorus (P)		mg/L	0.014	0.003	<0.0030	<0.0030	0.003	<0.0030	0.003	<0.0030	
Elements by Atomic Spectroscopy	Chloride (Cl)	600	mg/L	1	<1.0	1	<1.0	1	<1.0	1	<1.0
	Bromide (Br)		mg/L	0.01	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.010
	Dissolved Fluoride (F)	0.4	mg/L	0.05	<0.050	0.05	<0.050	0.05	<0.050	0.05	<0.050
	Dissolved Hardness (CaCO3)		mg/L	0.5	40.1	0.5	41.8	0.5	41	0.5	41
	Dissolved Aluminum (Al)		mg/L	0.0076	0.0076	0.003	0.0074	0.003	0.0071	0.003	0.0071
	Dissolved Antimony (Sb)	0.25	mg/L	0.0005	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005	<0.00050
	Dissolved Arsenic (As)		mg/L	0.00023	0.00023	0.0001	0.00028	0.0001	0.00025	0.0001	0.00025
	Dissolved Barium (Ba)		mg/L	0.0021	0.0021	0.001	0.0021	0.001	0.0022	0.001	0.0022
	Dissolved Beryllium (Be)		mg/L	<0.00010	0.0001	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010
	Dissolved Bismuth (Bi)		mg/L	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010
	Dissolved Boron (B)		mg/L	0.056	0.05	0.05	0.066	0.05	0.063	0.05	0.063
	Dissolved Cadmium (Cd)	0.00002	mg/L	<0.00010	0.00001	<0.00010	<0.00010	0.00001	<0.00010	0.00001	<0.00010
	Dissolved Chromium (Cr)		mg/L	<0.00010	0.001	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010
	Dissolved Cobalt (Co)	0.11	mg/L	<0.00020	0.0002	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020
	Dissolved Copper (Cu)	0.00141	mg/L	0.00044	0.0002	0.0002	0.00036	0.0002	0.00037	0.0002	0.00037
Dissolved Iron (Fe)	0.35	mg/L	0.0182	0.005	0.005	0.0183	0.005	0.0187	0.005	0.0187	
Dissolved Lead (Pb)		mg/L	<0.00020	0.0002	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	
Dissolved Lithium (Li)		mg/L	<0.00020	0.002	0.002	<0.00020	0.002	<0.0020	0.002	<0.0020	
Dissolved Manganese (Mn)	0.76	mg/L	0.0012	0.001	0.001	0.0013	0.001	0.0012	0.001	0.0012	
Dissolved Molybdenum (Mo)	46	mg/L	<0.0010	0.001	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	
Dissolved Nickel (Ni)	0.0117	mg/L	<0.00010	0.001	0.001	<0.00010	0.001	<0.00010	0.001	<0.00010	
Dissolved Selenium (Se)		mg/L	<0.00010	0.0001	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	
Dissolved Silicon (Si)		mg/L	1.84	0.1	0.1	1.97	0.1	1.95	0.1	1.95	
Dissolved Silver (Ag)	0.0001	mg/L	<0.00020	0.00002	0.00002	<0.00020	0.00002	<0.00020	0.00002	<0.00020	
Dissolved Strontium (Sr)		mg/L	0.0799	0.001	0.001	0.0818	0.001	0.0796	0.001	0.0796	
Dissolved Thallium (Tl)		mg/L	<0.000010	0.00001	<0.000010	<0.000010	0.00001	<0.000010	0.00001	<0.000010	
Dissolved Tin (Sn)		mg/L	<0.0050	0.005	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	
Dissolved Titanium (Ti)		mg/L	<0.0050	0.005	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	
Dissolved Uranium (U)		mg/L	<0.00010	0.0001	<0.00010	<0.00010	0.0001	<0.00010	0.0001	<0.00010	
Dissolved Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	<0.0050	0.005	<0.0050	0.005	<0.0050	
Dissolved Zinc (Zn)		mg/L	<0.0050	0.005	<0.0050	<0.0050	0.005	<0.0050	0.005	<0.0050	
Dissolved Zirconium (Zr)		mg/L	<0.00010	0.0001	<0.00010	<0.00010	0.0001	<0.00010	0.0001	<0.00010	
Dissolved Calcium (Ca)		mg/L	13.3	0.05	13.3	13.8	0.05	13.6	0.05	13.6	
Dissolved Magnesium (Mg)		mg/L	1.7	0.05	1.7	1.8	0.05	1.7	0.05	1.7	
Dissolved Potassium (K)		mg/L	0.291	0.05	0.291	0.327	0.05	0.293	0.05	0.293	
Dissolved Sodium (Na)		mg/L	17.2	0.05	17.2	19	0.05	17.9	0.05	17.9	
Dissolved Sulphur (S)		mg/L	13.1	3	13.1	14.8	3	14.4	3	14.4	
LEGEND											
Exceedance											
Red with White Text											
Highlighted											
DL > Criteria											

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		QRU01		QRD01		QRD01	
Sampled Date From	Sampled Date To	2025/08/27	2025/09/19	Bureau Veritas Lab #		20250917-01		20250916-01		20250916-01	
Projects		WQ Quinsam River Cabin and Sediment Project		COC#		C579268		C578888		C578888	
Criteria 1		BC Approved WQG - Acute		Sample ID		QRU01-17SEP25-M		QRD01-16SEP25-M		QRD01-16SEP25-R	
Criteria 2		N/A		Bureau Veritas Sample ID		DTE362		DTB684		DTB685	
		Matrix		Water		Water		Water		Water	
Report Group	Parameter Name	Criteria 1	Units	Result	DL	Result	DL	Result	DL	Result	DL
Elements by Atomic Spectroscopy	Total Hardness (CaCO3)		mg/L	38.4	0.5	40.9	0.5	40.7	0.5		
	Total Aluminum (Al)		mg/L	0.0138	0.003	0.0119	0.003	0.0125	0.003		
	Total Antimony (Sb)	0.25	mg/L	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005		
	Total Arsenic (As)		mg/L	0.00023	0.0001	0.00031	0.0001	0.00029	0.0001		
	Total Barium (Ba)		mg/L	0.002	0.001	0.0022	0.001	0.002	0.001		
	Total Beryllium (Be)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
	Total Bismuth (Bi)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Total Boron (B)		mg/L	0.06	0.05	0.057	0.05	0.058	0.05		
	Total Cadmium (Cd)		mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001		
	Total Chromium (Cr)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Total Cobalt (Co)	0.11	mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002		
	Total Copper (Cu)		mg/L	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005		
	Total Iron (Fe)	1	mg/L	0.036	0.01	0.038	0.01	0.038	0.01		
	Total Lead (Pb)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002		
	Total Lithium (Li)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002		
	Total Manganese (Mn)	0.76	mg/L	0.0104	0.001	0.0095	0.001	0.0094	0.001		
	Total Molybdenum (Mo)	46	mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Total Nickel (Ni)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Total Selenium (Se)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
	Total Silicon (Si)		mg/L	1.84	0.1	1.65	0.1	1.64	0.1		
	Total Silver (Ag)	0.0001	mg/L	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002		
	Total Strontium (Sr)		mg/L	0.0749	0.001	0.0762	0.001	0.0742	0.001		
	Total Thallium (Tl)		mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001		
	Total Tin (Sn)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Total Titanium (Ti)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Total Uranium (U)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
	Total Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Total Zinc (Zn)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Total Zirconium (Zr)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
	Total Calcium (Ca)		mg/L	12.7	0.05	13.6	0.05	13.4	0.05		
	Total Magnesium (Mg)		mg/L	1.63	0.05	1.7	0.05	1.75	0.05		
	Total Potassium (K)		mg/L	0.281	0.05	0.296	0.05	0.294	0.05		
	Total Sodium (Na)		mg/L	17.2	0.05	18.6	0.05	19	0.05		
	Total Sulphur (S)		mg/L	11.7	3	11.4	3	12.6	3		
	Low Molecular Weight PAH's		ug/L	<0.10	0.1	<0.10	0.1	<0.10	0.1		
	High Molecular Weight PAH's		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05		
Total PAH		ug/L	<0.10	0.1	<0.10	0.1	<0.10	0.1			
Quinoline		ug/L	<0.020	0.02	<0.020	0.02	<0.020	0.02			
Naphthalene		ug/L	<0.10	0.1	<0.10	0.1	<0.10	0.1			
1-Methylnaphthalene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
2-Methylnaphthalene		ug/L	<0.10	0.1	<0.10	0.1	<0.10	0.1			
Acenaphthylene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Acenaphthene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Fluorene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Phenanthrene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Anthracene		ug/L	<0.010	0.01	<0.010	0.01	<0.010	0.01			
Acridine		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Fluoranthene		ug/L	<0.020	0.02	<0.020	0.02	<0.020	0.02			
Pyrene		ug/L	<0.020	0.02	<0.020	0.02	<0.020	0.02			
Benz(a)anthracene		ug/L	<0.010	0.01	<0.010	0.01	<0.010	0.01			
Chrysene	0.1	ug/L	<0.020	0.02	<0.020	0.02	<0.020	0.02			
Benzo(b,h)fluoranthene		ug/L	<0.030	0.03	<0.030	0.03	<0.030	0.03			
Benzo(k)fluoranthene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Benzo(a)pyrene		ug/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005			
Indeno(1,2,3-cd)pyrene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
Dibenz(a,h)anthracene		ug/L	<0.0030	0.003	<0.0030	0.003	<0.0030	0.003			
Benzo(g,h,i)perylene		ug/L	<0.050	0.05	<0.050	0.05	<0.050	0.05			
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REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		QRD02		QRD03	
Sampled Date From		2025/08/27		COCH		20250916-01		2250909	
Sampled Date To		2025/09/19		Bureau Veritas Lab #		C578888		C576923	
Projects		WQ Quinsam River Cabin and Sediment Project		Sample ID		QRD02-16SEP25-M		QRD03-9SEP25-M	
Criteria 1		BC Approved WQG - Acute		Bureau Veritas Sample ID		DTB686		DSN988	
Criteria 2		N/A		Matrix		Water		Water	
				Sampling Date		2025-09-16		2025-09-09	
Report Group	Parameter Name	Criteria 1	Units	Result	DL	Result	DL		
Elements by Atomic Spectroscopy	pH	0.06	pH	<0.0050	0.005	<0.0050	0.005		
	Nitrite (N)	32.8	mg/L	<0.020	0.02	<0.020	0.02		
	Nitrate (N)		mg/L	<1.0	1	<1.0	1		
	Acidity (pH 4.5)		mg/L	<1.0	1	<1.0	1		
	Acidity (pH 8.3)		mg/L	<1.0	1	<1.0	1		
	Alkalinity (PP as CaCO3)		mg/L	<1.0	1	<1.0	1		
	Alkalinity (Total as CaCO3)		mg/L	45	1	46	1		
	Bicarbonate (HCO3)		mg/L	55	1	56	1		
	Carbonate (CO3)		mg/L	<1.0	1	<1.0	1		
	Hydroxide (OH)		mg/L	<1.0	1	<1.0	1		
	Sulphate (SO4)		mg/L	39	1	47	1		
	Nitrate plus Nitrite (N)		mg/L	<0.020	0.02	0.02	0.02		
	Total Suspended Solids		mg/L						
	Turbidity		NTU	0.69	0.1	0.81	0.1		
	Dissolved Organic Carbon (C)		mg/L	2.3	0.5	2.1	0.5		
	Dissolved Phosphorus (P)		mg/L	<0.0030	0.003	<0.0030	0.003		
	Total Organic Carbon (C)		mg/L	2.2	0.5	2	0.5		
	Total Phosphorus (P)		mg/L	<0.0030	0.003	0.0038	0.003		
	Chloride (Cl)		600	mg/L	<1.0	1	<1.0	1	
	Bromide (Br)		0.4	mg/L	<0.010	0.01	<0.010	0.01	
Dissolved Fluoride (F)			mg/L	<0.050	0.05	<0.050	0.05		
Elements by Atomic Spectroscopy	Dissolved Hardness (CaCO3)		mg/L	41.5	0.5	45.7	0.5		
	Dissolved Aluminum (Al)		mg/L	0.0068	0.003	0.0076	0.003		
	Dissolved Antimony (Sb)	0.25	mg/L	<0.00050	0.0005	<0.00050	0.0005		
	Dissolved Arsenic (As)		mg/L	0.00028	0.0001	0.00043	0.0001		
	Dissolved Barium (Ba)		mg/L	0.0023	0.001	0.0026	0.001		
	Dissolved Beryllium (Be)		mg/L	<0.00010	0.0001	<0.00010	0.0001		
	Dissolved Bismuth (Bi)		mg/L	<0.0010	0.001	<0.0010	0.001		
	Dissolved Boron (B)		mg/L	0.071	0.05	0.074	0.05		
	Dissolved Cadmium (Cd)	0.00002	mg/L	<0.00010	0.00001	<0.00010	0.00001		
	Dissolved Chromium (Cr)		mg/L	<0.0010	0.001	<0.0010	0.001		
	Dissolved Cobalt (Co)	0.11	mg/L	<0.00020	0.0002	<0.00020	0.0002		
	Dissolved Copper (Cu)	0.00141	mg/L	0.00036	0.0002	0.00037	0.0002		
	Dissolved Iron (Fe)	0.35	mg/L	0.0176	0.005	0.02	0.005		
	Dissolved Lead (Pb)		mg/L	<0.00020	0.0002	<0.00020	0.0002		
	Dissolved Lithium (Li)		mg/L	<0.0020	0.002	<0.0020	0.002		
	Dissolved Manganese (Mn)	0.76	mg/L	0.0011	0.001	0.0018	0.001		
	Dissolved Molybdenum (Mo)	46	mg/L	<0.0010	0.001	<0.0010	0.001		
	Dissolved Nickel (Ni)	0.0117	mg/L	<0.0010	0.001	<0.0010	0.001		
	Dissolved Selenium (Se)		mg/L	<0.00010	0.0001	<0.00010	0.0001		
	Dissolved Silicon (Si)		mg/L	1.96	0.1	1.86	0.1		
Dissolved Silver (Ag)	0.0001	mg/L	<0.000020	0.0002	<0.000020	0.00002			
Dissolved Strontium (Sr)		mg/L	0.0818	0.001	0.0905	0.001			
Dissolved Thallium (Tl)		mg/L	<0.00010	0.00001	<0.000010	0.00001			
Dissolved Tin (Sn)		mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Titanium (Ti)		mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Uranium (U)		mg/L	<0.00010	0.0001	<0.00010	0.0001			
Dissolved Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Zinc (Zn)	0.0128	mg/L	<0.0050	0.005	<0.0050	0.005			
Dissolved Zirconium (Zr)		mg/L	<0.00010	0.0001	<0.00010	0.0001			
Dissolved Calcium (Ca)		mg/L	13.6	0.05	15.3	0.05			
Dissolved Magnesium (Mg)		mg/L	1.85	0.05	1.79	0.05			
Dissolved Potassium (K)		mg/L	0.32	0.05	0.339	0.05			
Dissolved Sodium (Na)		mg/L	19.2	0.05	20.6	0.05			
Dissolved Sulphur (S)		mg/L	11.6	3	14.4	3			
LEGEND									
Exceedance									
Red with White Text									
Highlighted									
DL > Criteria									

Attachment A - Water Chemistry for Sediment Sampling

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		Bureau Veritas /lab #		Bureau Veritas /lab #		Bureau Veritas /lab #		Bureau Veritas /lab #	
Sampled Date From		2025/08/27		COCH		20250916-01		20250916-01		20250916-01		20250909	
Sampled Date To		2025/09/19		COCH		C578888		C578888		C578888		C576923	
Projects		WQ Quinsam River Cabin and Sediment Project		Sample ID		QRD02-16SEP25-M		QRD02-16SEP25-M		QRD03-9SEP25-M		QRD03-9SEP25-M	
Criteria 1		BC Approved WQG - Acute		Bureau Veritas Sample ID		DTB686		DTB686		DTB686		DSN988	
Criteria 2		N/A		Matrix		Water		Water		Water		Water	
Report Group		Parameter Name		Sampling Date		Result		DL		Result		DL	
Elements by Atomic Spectroscopy		Total Hardness (CaCO3)		mg/L		40.9		0.5		47.6		0.5	
Elements by Atomic Spectroscopy		Total Aluminum (Al)		mg/L		0.0127		0.003		0.0162		0.003	
Elements by Atomic Spectroscopy		Total Antimony (Sb)		mg/L		<0.00050		0.0005		<0.00050		0.0005	
Elements by Atomic Spectroscopy		Total Arsenic (As)		mg/L		0.00031		0.0001		0.00055		0.0001	
Elements by Atomic Spectroscopy		Total Barium (Ba)		mg/L		0.0022		0.001		0.003		0.001	
Elements by Atomic Spectroscopy		Total Beryllium (Be)		mg/L		<0.00010		0.0001		<0.00010		0.0001	
Elements by Atomic Spectroscopy		Total Bismuth (Bi)		mg/L		<0.0010		0.001		<0.0010		0.001	
Elements by Atomic Spectroscopy		Total Boron (B)		mg/L		0.06		0.05		0.072		0.05	
Elements by Atomic Spectroscopy		Total Cadmium (Cd)		mg/L		<0.00010		0.00001		<0.00010		0.00001	
Elements by Atomic Spectroscopy		Total Chromium (Cr)		mg/L		<0.0010		0.001		<0.0010		0.001	
Elements by Atomic Spectroscopy		Total Cobalt (Co)		mg/L		<0.00020		0.0002		<0.00020		0.0002	
Elements by Atomic Spectroscopy		Total Copper (Cu)		mg/L		<0.00050		0.0005		0.00054		0.0005	
Elements by Atomic Spectroscopy		Total Iron (Fe)		mg/L		0.04		0.01		0.053		0.01	
Elements by Atomic Spectroscopy		Total Lead (Pb)		mg/L		<0.00020		0.0002		<0.00020		0.0002	
Elements by Atomic Spectroscopy		Total Lithium (Li)		mg/L		<0.0020		0.002		<0.0020		0.002	
Elements by Atomic Spectroscopy		Total Manganese (Mn)		mg/L		0.0096		0.001		0.0129		0.001	
Elements by Atomic Spectroscopy		Total Molybdenum (Mo)		mg/L		<0.0010		0.001		<0.0010		0.001	
Elements by Atomic Spectroscopy		Total Nickel (Ni)		mg/L		<0.0010		0.001		<0.0010		0.001	
Elements by Atomic Spectroscopy		Total Selenium (Se)		mg/L		<0.00010		0.0001		<0.00010		0.0001	
Elements by Atomic Spectroscopy		Total Silicon (Si)		mg/L		1.71		0.1		2.01		0.1	
Elements by Atomic Spectroscopy		Total Silver (Ag)		mg/L		<0.00020		0.0002		<0.00020		0.0002	
Elements by Atomic Spectroscopy		Total Strontium (Sr)		mg/L		0.0764		0.001		0.0981		0.001	
Elements by Atomic Spectroscopy		Total Thallium (Tl)		mg/L		<0.00010		0.00001		<0.00010		0.00001	
Elements by Atomic Spectroscopy		Total Tin (Sn)		mg/L		<0.0050		0.005		<0.0050		0.005	
Elements by Atomic Spectroscopy		Total Titanium (Ti)		mg/L		<0.0050		0.005		<0.0050		0.005	
Elements by Atomic Spectroscopy		Total Uranium (U)		mg/L		<0.00010		0.0001		<0.00010		0.0001	
Elements by Atomic Spectroscopy		Total Vanadium (V)		mg/L		<0.0050		0.005		<0.0050		0.005	
Elements by Atomic Spectroscopy		Total Zinc (Zn)		mg/L		<0.0050		0.005		<0.0050		0.005	
Elements by Atomic Spectroscopy		Total Zirconium (Zr)		mg/L		<0.00010		0.0001		<0.00010		0.0001	
Elements by Atomic Spectroscopy		Total Calcium (Ca)		mg/L		13.5		0.05		15.6		0.05	
Elements by Atomic Spectroscopy		Total Magnesium (Mg)		mg/L		1.74		0.05		2.06		0.05	
Elements by Atomic Spectroscopy		Total Potassium (K)		mg/L		0.303		0.05		0.38		0.05	
Elements by Atomic Spectroscopy		Total Sodium (Na)		mg/L		19.2		0.05		24.3		0.05	
Elements by Atomic Spectroscopy		Total Sulphur (S)		ug/L		12.5		3		16.9		3	
Low Molecular Weight PAH's		High Molecular Weight PAH's		ug/L		<0.050		0.05		<0.050		0.05	
Total PAH				ug/L		<0.10		0.1		<0.10		0.1	
Quinoline				ug/L		<0.020		0.02		<0.020		0.02	
Naphthalene				ug/L		<0.10		0.1		<0.10		0.1	
1-Methylnaphthalene				ug/L		<0.050		0.05		<0.050		0.05	
2-Methylnaphthalene				ug/L		<0.10		0.1		<0.10		0.1	
Acenaphthylene				ug/L		<0.050		0.05		<0.050		0.05	
Acenaphthene				ug/L		<0.050		0.05		<0.050		0.05	
Fluorene				ug/L		<0.050		0.05		<0.050		0.05	
Phenanthrene				ug/L		<0.050		0.05		<0.050		0.05	
Anthracene				ug/L		<0.010		0.01		<0.010		0.01	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS				ug/L		<0.050		0.05		<0.050		0.05	
Semivolatile Organics by GC-MS													

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		75QR03A		75Q03		75QR03B	
Sampled Date From		2025/08/27		COC#		20250908-1		2025-09-03		20250918	
Sampled Date To		2025/09/19		Bureau Veritas Job #		C576446		C575363		C579797	
Projects		WQ Quinsam River Cabin and Sediment Project		Sample ID		75QR-8SEP25-X		75Q03-3SEP25-M		75QR03B-18SEP25-M	
Criteria 1		BC Approved WQG - Acute		Bureau Veritas Sample ID		DSL613		DS0284		DTH875	
Criteria 2		N/A		Matrix		Water		Water		Water	
Report Group	Parameter Name	Criteria 1	Units	Result	DL	Result	DL	Result	DL		
Elements by Atomic Spectroscopy	pH		pH	7.51	N/A						
	Nitrite (N)	0.06	mg/L	<0.0050	0.005						
	Nitrate (N)	32.8	mg/L	<0.020	0.02						
	Acidity (pH 4.5)		mg/L	<1.0	1	<1.0	1	<1.0	1		
	Acidity (pH 8.3)		mg/L	1.9	1	1.8	1	<1.0	1		
	Alkalinity (PP as CaCO3)		mg/L	<1.0	1	<1.0	1	<1.0	1		
	Alkalinity (Total as CaCO3)		mg/L	46	1	46	1	47	1		
	Bicarbonate (HCO3)		mg/L	56	1	57	1	57	1		
	Carbonate (CO3)		mg/L	<1.0	1	<1.0	1	<1.0	1		
	Hydroxide (OH)		mg/L	<1.0	1	<1.0	1	<1.0	1		
	Sulphate (SO4)		mg/L	45	1	47	1	37	1		
	Nitrate plus Nitrite (N)		mg/L	<0.020	0.02	<0.020	0.02				
	Total Suspended Solids		mg/L			<1.0	1				
	Turbidity		NTU	0.75	0.1	0.53	0.1	0.64	0.1		
	Elements by Atomic Spectroscopy	Dissolved Organic Carbon (C)		mg/L	2.1	0.5	1.9	0.5	1.9	0.5	
Dissolved Phosphorus (P)			mg/L	<0.0030	0.003	<0.0030	0.003	<0.0030	0.003		
Total Organic Carbon (C)			mg/L	2.2	0.5	1.8	0.5	1.6	0.5		
Total Phosphorus (P)			mg/L	0.0053	0.003	0.0034	0.003	<0.0030	0.003		
Chloride (Cl)		600	mg/L	<1.0	1	<1.0	1	<1.0	1		
Bromide (Br)			mg/L	<0.010	0.01	<0.010	0.01	<0.010	0.01		
Dissolved Fluoride (F)		0.4	mg/L	<0.050	0.05	<0.050	0.05	<0.050	0.05		
Dissolved Hardness (CaCO3)			mg/L	44.6	0.5	45.1	0.5	42.2	0.5		
Dissolved Aluminum (Al)			mg/L	0.0095	0.003	0.0082	0.003	0.0072	0.003		
Dissolved Antimony (Sb)		0.25	mg/L	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005		
Dissolved Arsenic (As)			mg/L	0.00058	0.0001	0.00067	0.0001	0.00056	0.0001		
Dissolved Barium (Ba)			mg/L	0.0033	0.001	0.0034	0.001	0.0035	0.001		
Dissolved Beryllium (Be)			mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
Dissolved Bismuth (Bi)			mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
Dissolved Boron (B)			mg/L	0.08	0.05	0.074	0.05	0.06	0.05		
Elements by Atomic Spectroscopy	Dissolved Cadmium (Cd)	0.00002	mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001		
	Dissolved Chromium (Cr)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Dissolved Cobalt (Co)	0.11	mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002		
	Dissolved Copper (Cu)	0.00141	mg/L	0.00041	0.0002	0.00042	0.0002	0.00042	0.0002		
	Dissolved Iron (Fe)	0.35	mg/L	0.0538	0.005	0.0455	0.005	0.0583	0.005		
	Dissolved Lead (Pb)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002		
	Dissolved Lithium (Li)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002		
	Dissolved Manganese (Mn)	0.76	mg/L	0.0076	0.001	0.0073	0.001	0.0054	0.001		
	Dissolved Molybdenum (Mo)	46	mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Dissolved Nickel (Ni)	0.0117	mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001		
	Dissolved Selenium (Se)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001		
	Dissolved Silicon (Si)		mg/L	2.03	0.1	2.03	0.1	2.14	0.1		
	Dissolved Silver (Ag)	0.0001	mg/L	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002		
	Dissolved Strontium (Sr)		mg/L	0.0943	0.001	0.0956	0.001	0.0833	0.001		
	Dissolved Thallium (Tl)		mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001		
Elements by Atomic Spectroscopy	Dissolved Tin (Sn)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Dissolved Titanium (Ti)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Dissolved Uranium (U)		mg/L	<0.000010	0.0001	<0.000010	0.0001	<0.000010	0.0001		
	Dissolved Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Dissolved Zinc (Zn)	0.0128	mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005		
	Dissolved Zirconium (Zr)		mg/L	<0.000010	0.0001	<0.000010	0.0001	<0.000010	0.0001		
	Dissolved Calcium (Ca)		mg/L	14.6	0.05	14.9	0.05	14.1	0.05		
	Dissolved Magnesium (Mg)		mg/L	1.99	0.05	1.95	0.05	1.71	0.05		
	Dissolved Potassium (K)		mg/L	0.384	0.05	0.344	0.05	0.336	0.05		
	Dissolved Sodium (Na)		mg/L	22	0.05	20.6	0.05	17.9	0.05		
	Dissolved Sulphur (S)		mg/L	15	3	15.8	3	12.7	3		
	LEGEND										
	Exceedance										
	Bold & Red										
	Red with White Text										
Highlighted											
DL > Criteria											

REPORT FILTERS		WQ Quinsam River Cabin and Sediment Project		Site Location		75QR03A		75Q03		75QR03B	
Sampled Date From		2025/08/27		COCH		20250908-1		2025-09-03		20250918	
Sampled Date To		2025/09/19		Bureau Veritas Lab #		C576446		C575363		C579797	
Projects		WQ Quinsam River Cabin and Sediment Project		Sample ID		75QR-8SEP25-X		75Q03-3SEP25-M		75QR03B-18SEP25-M	
Criteria 1		BC Approved WQG - Acute		Bureau Veritas Sample ID		DSL613		DSD284		DT4875	
Criteria 2		N/A		Matrix		Water		Water		Water	
Report Group	Parameter Name	Units	Criteria 1	Sampling Date	Result	DL	Result	DL	Result	DL	
Elements by Atomic Spectroscopy	Total Hardness (CaCO3)	mg/L			43.8	0.5	42.8	0.5	44.7	0.5	
	Total Aluminum (Al)	mg/L			0.0285	0.003	0.0193	0.003	0.0159	0.003	
	Total Antimony (Sb)	mg/L	0.25		<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005	
	Total Arsenic (As)	mg/L			0.00069	0.0001	0.0007	0.0001	0.00061	0.0001	
	Total Barium (Ba)	mg/L			0.00035	0.001	0.0032	0.001	0.0037	0.001	
	Total Beryllium (Be)	mg/L			<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	
	Total Bismuth (Bi)	mg/L			<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	
	Total Boron (B)	mg/L			0.077	0.05	0.066	0.05	0.07	0.05	
	Total Cadmium (Cd)	mg/L			<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	
	Total Chromium (Cr)	mg/L			<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	
	Total Cobalt (Co)	mg/L	0.11		<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	
	Total Copper (Cu)	mg/L			0.00054	0.0005	<0.00050	0.0005	<0.00050	0.0005	
	Total Iron (Fe)	mg/L	1		0.109	0.01	0.083	0.01	0.096	0.01	
	Total Lead (Pb)	mg/L			<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	
	Total Lithium (Li)	mg/L			<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	
	Total Manganese (Mn)	mg/L	0.76		0.0096	0.001	0.0088	0.001	0.007	0.001	
	Total Molybdenum (Mo)	mg/L	46		<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	
	Total Nickel (Ni)	mg/L			<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	
	Total Selenium (Se)	mg/L			<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	
	Total Silicon (Si)	mg/L			1.97	0.1	1.86	0.1	2.28	0.1	
	Total Silver (Ag)	mg/L	0.0001		<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	
	Total Strontium (Sr)	mg/L			0.095	0.001	0.0911	0.001	0.0847	0.001	
	Total Thallium (Tl)	mg/L			<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	
	Total Tin (Sn)	mg/L			<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	
	Total Titanium (Ti)	mg/L			<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	
	Total Uranium (U)	mg/L			<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	
	Total Vanadium (V)	mg/L			<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	
	Total Zinc (Zn)	mg/L			<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	
	Total Zirconium (Zr)	mg/L			<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	
	Total Calcium (Ca)	mg/L			14.3	0.05	14.1	0.05	14.6	0.05	
	Total Magnesium (Mg)	mg/L			1.97	0.05	1.87	0.05	1.96	0.05	
	Total Potassium (K)	mg/L			0.37	0.05	0.321	0.05	0.327	0.05	
	Total Sodium (Na)	mg/L			22.4	0.05	19.6	0.05	19.7	0.05	
	Total Sulphur (S)	mg/L			15.8	3	13.3	3	12.5	3	
	Low Molecular Weight PAH's	Quinoline	ug/L			<0.10	0.1	<0.10	0.1	<0.10	0.1
		Naphthalene	ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05
1-Methylnaphthalene		ug/L			<0.10	0.1	<0.10	0.1	<0.10	0.1	
2-Methylnaphthalene		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Acenaphthylene		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Acenaphthene		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Fluorene		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Phenanthrene		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Anthracene		ug/L			<0.010	0.01	<0.010	0.01	<0.010	0.01	
Acridine		ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
Fluoranthene		ug/L			<0.020	0.02	<0.020	0.02	<0.020	0.02	
Pyrene		ug/L			<0.020	0.02	<0.020	0.02	<0.020	0.02	
Benz(a)anthracene	Benz(a)anthracene	ug/L			<0.010	0.01	<0.010	0.01	<0.010	0.01	
	Chrysene	ug/L	0.1		<0.020	0.02	<0.020	0.02	<0.020	0.02	
	Benzo(b,h)fluoranthene	ug/L			<0.030	0.03	<0.030	0.03	<0.030	0.03	
	Benzo(k)fluoranthene	ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
	Benzo(a)pyrene	ug/L			<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	
	Indeno(1,2,3-cd)pyrene	ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
	Dibenz(a,h)anthracene	ug/L			<0.0030	0.003	<0.0030	0.003	<0.0030	0.003	
	Benzo(g,h,i)perylene	ug/L			<0.050	0.05	<0.050	0.05	<0.050	0.05	
LEGEND											
Exceedance											
Exceeds Both Criteria											
Bold & Red											
Red with White Text											

Attachment B Quinsam River Sediment Chemistry for 2025

Appendix B - Summary of Analysis - Quinsam River Sediment

Sample ID	Project	Site	Bureau Veritas Sample ID	Bureau Veritas Job ID	Date Sampled	Date Range: Extracted	Date Range: Analyzed
WA1-28AUG25-M	SEDIMENT QUINSAM RIVER	WA1	DRX153	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
WA2-28AUG25-M	SEDIMENT QUINSAM RIVER	WA2	DRX154	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
WA3-28AUG25-M	SEDIMENT QUINSAM RIVER	WA3	DRX155	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
WA4-28AUG25-M	SEDIMENT QUINSAM RIVER	WA4	DRX156	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
WA5-28AUG25-M	SEDIMENT QUINSAM RIVER	WA5	DRX157	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
WA2-28AUG25-S	SEDIMENT QUINSAM RIVER	WA2	DRX158	C574346	2025/08/28	2025/09/03 - 2025/09/04	2025/09/04 - 2025/09/15
7SQ03A-3SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03A	DSL640	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03B-3SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03B	DSL641	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03C-3SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03C	DSL642	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03D-3SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03D	DSL643	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03E-3SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03E	DSL644	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03A-3SEP25-S	SEDIMENT QUINSAM RIVER	7SQ03A	DSL645	C576451	2025/09/03	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03ARB-8SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03ARB	DSL646	C576451	2025/09/08	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
7SQ03ALB-8SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03ALB	DSL647	C576451	2025/09/08	2025/09/09 - 2025/09/10	2025/09/10 - 2025/09/24
QRD03A-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03A	DSU674	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD03B-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03B	DSU675	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD03C-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03C	DSU676	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD03DLB-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03DLB	DSU677	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD03ERB-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03ERB	DSU678	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD03F-9SEP25-M	SEDIMENT QUINSAM RIVER	QRD03F	DSU679	C577804	2025/09/09	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02A-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02A	DSU680	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02BLB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02BLB	DSU681	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02CRB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02CRB	DSU682	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02D-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02D	DSU683	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02ELB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02ELB	DSU684	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02ERB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02ERB	DSU685	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02FLB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02FLB	DSU686	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD02FRB-10SEP25-M	SEDIMENT QUINSAM RIVER	QRD02FRB	DSU687	C577804	2025/09/10	2025/09/15 - 2025/09/17	2025/09/16 - 2025/09/29
QRD01LB-16SEP25-M	SEDIMENT QUINSAM RIVER	QRD01LB	DTE468	C579274	2025/09/16	2025/09/19 - 2025/09/25	2025/09/23 - 2025/09/29
QRD01RB-16SEP25-M	SEDIMENT QUINSAM RIVER	QRD01RB	DTE469	C579274	2025/09/16	2025/09/19 - 2025/09/25	2025/09/23 - 2025/09/29
QRU01RB-17SEP25-M	SEDIMENT QUINSAM RIVER	QRU01RB	DTE466	C579274	2025/09/17	2025/09/19 - 2025/09/25	2025/09/23 - 2025/09/29
QRU01LB-17SEP25-M	SEDIMENT QUINSAM RIVER	QRU01LB	DTE467	C579274	2025/09/17	2025/09/19 - 2025/09/25	2025/09/23 - 2025/09/29
7SQ03BRB-18SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03BRB	DTI157	C579834	2025/09/18	2025/09/23 - 2025/09/27	2025/09/23 - 2025/09/29
7SQ03BLB-18SEP25-M	SEDIMENT QUINSAM RIVER	7SQ03BLB	DTI158	C579834	2025/09/18	2025/09/23 - 2025/09/27	2025/09/23 - 2025/09/29

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		WA1		WA2	
Sampled Date To		2025/09/30	COC#		08556147		08556147	
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C574346		C574346	
Criteria 1		CCME Sediment Quality -FW	Sample ID		WA1-28AUG25-M		WA2-28AUG25-M	
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DRX153		DRX154	
			Matrix		Sediment		Sediment	
			Sampling Date		2025-08-28		2025-08-28	
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.03	N/A	7.03	N/A
	% sand by hydrometer			%	93	2	90	2
	% silt by hydrometer			%	7.8	2	10	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	16	0.3	14	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.0025	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0048	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.0073	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	0.00084	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0017	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0023	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0013	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0012	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	26200	50	23500	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.155	0.05	0.105	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	8.47	0.1	6.35	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	63.8	0.1	71	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.35	0.1	0.27	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	4.2	1	3	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.151	0.05	0.129	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	12200	50	11300	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.39	0.1	0.25	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	27.1	0.5	24.8	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	18.3	0.1	16.2	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	85.5	0.5	66.6	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	51600	50	44300	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	3.41	0.1	2.49	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	6.16	0.5	5.08	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	12300	50	11600	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	772	0.2	615	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.67	0.1	3.81	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	26.2	0.5	25.2	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	497	10	457	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	346	50	254	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.27	0.1	0.16	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.196	0.05	0.068	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	410	50	431	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	62.3	0.1	79.5	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.58	0.1	0.39	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	2740	1	2420	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.424	0.05	0.295	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	156	0.2	128	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	76.9	0.5	66.2	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.011	0.01	<0.020	0.02
Miscellaneous	Total Organic Carbon (C)			%	1.6	0.05	1.2	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

		Site Location		WA3		WA4		
Sampled Date From	2025/08/10	COC#		08556147		08556147		
Sampled Date To	2025/09/30	Bureau Veritas Job #		C574346		C574346		
Projects	Sediment 2025 Quinsam River	Sample ID		WA3-28AUG25-M		WA4-28AUG25-M		
Criteria 1	CCME Sediment Quality -FW	Bureau Veritas Sample ID		DRX155		DRX156		
Criteria 2	CCME Sediment Quality-PEL	Matrix		Sediment		Sediment		
		Sampling Date		2025-08-28		2025-08-28		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.11	N/A	7.18	N/A
	% sand by hydrometer			%	93	2	94	2
	% silt by hydrometer			%	7	2	6.7	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	21	0.3	25	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	25000	50	24700	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.118	0.05	0.156	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	8.22	0.1	8.74	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	47.1	0.1	51.4	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.29	0.1	0.29	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	3	1	3.3	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.123	0.05	0.164	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	11600	50	13200	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.25	0.1	0.32	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	26.2	0.5	26.6	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	17.1	0.1	16	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	71.3	0.5	83.4	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	47900	50	48400	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	3.26	0.1	4.12	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	5.52	0.5	5.36	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	12400	50	11300	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	675	0.2	652	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.48	0.1	0.64	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	26.5	0.5	23.6	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	477	10	350	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	263	50	300	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.17	0.1	0.23	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	441	50	376	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	43	0.1	45	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.44	0.1	0.55	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	2700	1	2950	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.313	0.05	0.377	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	137	0.2	158	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	71.7	0.5	70.3	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	<0.020	0.02	<0.020	0.02
Miscellaneous	Total Organic Carbon (C)			%	2.6	0.05	3.6	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		WAS	WA2		
Sampled Date To		2025/09/30	COC#		08556147	08556147		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C574346	C574346		
Criteria 1		CCME Sediment Quality -FW	Sample ID		WA5-28AUG25-M	WA2-28AUG25-S		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DRX157	DRX158		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-08-28	2025-08-28		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.29	N/A	7.18	N/A
	% sand by hydrometer			%	94	2	91	2
	% silt by hydrometer			%	6.6	2	9.5	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	19	0.3	18	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	27600	50	29600	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.203	0.05	0.139	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	9.92	0.1	8.96	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	87.2	0.1	65.1	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.52	0.1	0.36	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	4.3	1	3.2	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.328	0.05	0.153	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	14300	50	13300	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.38	0.1	0.4	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	28.1	0.5	26	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	18.3	0.1	17.6	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	66.2	0.5	85.8	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	50500	50	48600	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	3.84	0.1	3.21	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	6.4	0.5	5.92	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	12500	50	12100	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	715	0.2	790	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.82	0.1	0.65	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	27.4	0.5	24.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	375	10	508	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	357	50	467	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.39	0.1	0.22	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.171	0.05	0.08	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	545	50	466	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	53.3	0.1	54.4	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.56	0.1	0.52	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	2860	1	2980	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.565	0.05	0.367	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	159	0.2	152	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	75.2	0.5	77.1	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	<0.020	0.02	<0.020	0.02
Miscellaneous	Total Organic Carbon (C)			%	1.8	0.05	0.9	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From2025/08/10 Sampled Date To2025/09/30 ProjectsSediment 2025 Quinsam River Criteria 1CCME Sediment Quality -FW Criteria 2CCME Sediment Quality-PEL		Site LocationCOC# Bureau Veritas Job #C579274 Sample IDQRU01RB-17SEP25-M Bureau Veritas Sample ID DTE466 MatrixSediment Sampling Date2025-09-17		QRU01RB08556678 C579274 QRU01RB-17SEP25-M DTE466 Sediment 2025-09-17	QRU01LB08556678 C579274 QRU01LB-17SEP25-M DTE467 Sediment 2025-09-17			
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.31	N/A	7.22	N/A
	% sand by hydrometer			%	97	2	97	2
	% silt by hydrometer			%	2.9	2	2.5	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	19	0.3	12	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.23	0.001	0.092	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.018	0.001	0.0063	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.25	0.001	0.099	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.075	0.001	0.03	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.1	0.001	0.042	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	0.002	0.0005	0.0008	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0022	0.001	0.0011	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.042	0.001	0.016	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	0.0056	0.001	0.0024	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0042	0.001	0.0017	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0046	0.001	0.0016	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0032	0.001	0.0013	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0046	0.001	0.0017	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	0.0012	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	10000	100	9750	100
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.21	0.1	0.21	0.1
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	9.95	0.2	12.6	0.2
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	26	0.2	31.6	0.2
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	<0.20	0.2	0.21	0.2
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	6.6	1	7.8	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.094	0.05	0.107	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	7200	100	7850	100
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg				
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	16.9	0.5	18.5	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	10.7	0.1	12.1	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	29.3	0.5	29.8	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	30000	100	35100	100
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	1.22	0.1	1.6	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	3.9	0.5	4.02	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	4150	100	3960	100
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	470	0.2	578	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.41	0.1	0.53	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	16.4	0.5	18.8	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	313	10	274	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	194	100	210	100
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.104	0.05	0.061	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	269	100	259	100
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	25	0.1	29.5	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.33	0.1	0.39	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	1340	1	1330	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.223	0.05	0.231	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	94.2	1	109	1
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	38.9	1	44.7	1
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.023	0.01	0.014	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.6	0.05	4.4	0.05
Miscellaneous	Total Sulphur (S)			%	0.2	0.06	0.18	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg	7.32	0.5	7.08	0.5
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD01LB	QRD01RB		
Sampled Date To		2025/09/30	COC#		08556678	08556678		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C579274	C579274		
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD01LB-16SEP25-M	QRD01RB-16SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DTE468	DTE469		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-16	2025-09-16		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.19	N/A	6.96	N/A
	% sand by hydrometer			%	98	2	98	2
	% silt by hydrometer			%	2.1	2	2.3	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	18	0.3	19	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.073	0.001	0.049	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0095	0.001	0.0058	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.082	0.001	0.055	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.016	0.001	0.015	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.028	0.001	0.02	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	0.00097	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0011	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.024	0.001	0.013	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	0.0021	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0027	0.001	0.0016	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0022	0.001	0.0014	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0019	0.001	0.0011	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0027	0.001	0.0017	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	8890	100	7180	100
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.25	0.1	0.18	0.1
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	20.4	0.2	28.6	0.2
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	27.8	0.2	31	0.2
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	<0.20	0.2	<0.20	0.2
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	6.8	1	8	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.062	0.05	0.073	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	6320	100	5140	100
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg				
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	17	0.5	16	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	10.5	0.1	9.91	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	24.7	0.5	22.5	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	34900	100	36500	100
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	1.63	0.1	1.39	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	4.11	0.5	3.64	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3370	100	2820	100
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	438	0.2	524	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.42	0.1	2.15	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	16.5	0.5	14	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	300	10	175	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	245	100	251	100
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	224	100	202	100
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	22.4	0.1	22.4	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	0.05	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.29	0.1	0.24	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	1130	1	896	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.228	0.05	0.204	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	103	1	102	1
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	37.8	1	35.4	1
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.016	0.01	0.013	0.01
Miscellaneous	Total Organic Carbon (C)			%	2.2	0.05	2.9	0.05
Miscellaneous	Total Sulphur (S)			%	0.25	0.06	0.36	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg	6.56	0.5	5.1	0.5
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD02A	QRD02BLB		
Sampled Date To		2025/09/30	COC#		20251109-1	20251109-1		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C577804	C577804		
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD02A-10SEP25-M	QRD02BLB-10SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSU680	DSU681		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-10	2025-09-10		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	6.98	N/A	7.21	N/A
	% sand by hydrometer			%	85	2	91	2
	% silt by hydrometer			%	14	2	8.7	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	41	0.3	23	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.11	0.001	0.07	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.017	0.001	0.01	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.13	0.001	0.08	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.031	0.001	0.019	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.041	0.001	0.026	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	0.001	0.0005	0.00078	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0015	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.032	0.001	0.022	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	0.0034	0.001	0.0023	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0042	0.001	0.0027	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.003	0.001	0.002	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0035	0.001	0.0021	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0045	0.001	0.0034	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	0.001	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	0.001	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	0.0012	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	10800	50	11200	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.455	0.05	0.649	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	58.6	0.1	87.1	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	50.2	0.1	61.6	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.23	0.1	0.26	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	12	1	13.8	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.145	0.05	0.162	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	9100	50	9170	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.4	0.1	0.49	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	22.5	0.5	25.2	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	11.2	0.1	13.3	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	37.7	0.5	39.3	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	38500	50	43900	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	5.14	0.1	5.39	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	4.94	0.5	5.27	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3060	50	2990	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	1220	0.2	1890	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.73	0.1	0.97	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	16.3	0.5	18.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	523	10	531	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	334	50	369	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.77	0.1	0.99	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.076	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	396	50	414	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	48	0.1	47.1	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.37	0.1	0.37	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	952	1	1030	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.432	0.05	0.422	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	107	0.2	113	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	45.4	0.5	48	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.027	0.01	0.017	0.01
Miscellaneous	Total Organic Carbon (C)			%	5.8	0.05	5.1	0.05
Miscellaneous	Total Sulphur (S)			%	0.14	0.06	0.23	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD02CRB <th colspan="2">QRD02D</th>	QRD02D		
Sampled Date To		2025/09/30	COC#		20251109-1	20251109-1		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C577804	C577804		
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD02CRB-10SEP25-M	QRD02D-10SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSU682	DSU683		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-10	2025-09-10		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.35	N/A	7.13	N/A
	% sand by hydrometer			%	91	2	91	2
	% silt by hydrometer			%	8.2	2	8.6	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	19	0.3	26	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.019	0.001	0.037	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0014	0.001	0.007	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.02	0.001	0.044	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0053	0.001	0.0082	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0066	0.001	0.013	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0067	0.001	0.014	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	0.0011	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	0.0022	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	0.0013	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0014	0.001	0.0023	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	12600	50	12500	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.41	0.05	0.409	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	97.7	0.1	57.4	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	75.2	0.1	51.4	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.24	0.1	0.28	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	13.3	1	11.7	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.18	0.05	0.17	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	9230	50	8880	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.48	0.1	0.46	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	28.4	0.5	26	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	14.8	0.1	12.3	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	44.4	0.5	38.6	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	49700	50	41000	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	5.38	0.1	4.89	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	7.55	0.5	6.92	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3480	50	3260	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	1870	0.2	1260	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.9	0.1	0.76	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	19.9	0.5	17.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	527	10	484	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	341	50	316	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.97	0.1	0.81	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	421	50	397	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	54.7	0.1	44.4	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.5	0.1	0.37	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	980	1	1170	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.447	0.05	0.386	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	122	0.2	117	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	48.7	0.5	44.9	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.011	0.01	0.014	0.01
Miscellaneous	Total Organic Carbon (C)			%	4.8	0.05	4.2	0.05
Miscellaneous	Total Sulphur (S)			%	0.15	0.06	0.16	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

		Site Location		QRD02ELB		QRD02ERB		
Sampled Date From		2025/08/10		20251109-1		20251109-1		
Sampled Date To		2025/09/30		C577804		C577804		
Projects		Sediment 2025 Quinsam River		QRD02ELB-10SEP25-M		QRD02ERB-10SEP25-M		
Criteria 1		CCME Sediment Quality -FW		DSU684		DSU685		
Criteria 2		CCME Sediment Quality-PEL		Sediment		Sediment		
		Matrix		2025-09-10		2025-09-10		
		Sampling Date						
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.45	N/A	7.53	N/A
	% sand by hydrometer			%	91	2	91	2
	% silt by hydrometer			%	8.8	2	8.7	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	22	0.3	21	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.0098	0.001	0.02	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	<0.0010	0.001	0.0024	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.0098	0.001	0.022	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0024	0.001	0.0065	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0031	0.001	0.0055	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0043	0.001	0.0077	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	0.001	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	<0.0010	0.001	0.0014	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	11000	50	12700	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.382	0.05	0.508	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	54.5	0.1	542	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	59.9	0.1	168	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.27	0.1	0.3	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	13.5	1	16.1	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.191	0.05	0.161	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	8800	50	8910	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.5	0.1	0.62	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	28.1	0.5	30.3	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	13.6	0.1	19.5	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	41.4	0.5	41	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	46200	50	70800	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	6.3	0.1	11.1	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	5.46	0.5	11.1	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3150	50	3190	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	2220	0.2	3720	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.97	0.1	1.19	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	20.3	0.5	21.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	549	10	462	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	379	50	355	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	1.17	0.1	0.86	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.091	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	419	50	423	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	47.2	0.1	67.7	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	0.052	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.45	0.1	0.44	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	921	1	980	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.456	0.05	0.354	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	128	0.2	130	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	52	0.5	49.3	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	<0.020	0.02	0.011	0.01
Miscellaneous	Total Organic Carbon (C)			%	4.8	0.05	3.6	0.05
Miscellaneous	Total Sulphur (S)			%	0.15	0.06	0.17	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD02FLB	QRD02FRB		
Sampled Date To		2025/09/30	COC#		20251109-1	20251109-1		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C577804	C577804		
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD02FLB-10SEP25-M	QRD02FRB-10SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSU686	DSU687		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-10	2025-09-10		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.25	N/A	7.27	N/A
	% sand by hydrometer			%	90	2	91	2
	% silt by hydrometer			%	9	2	8.4	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	12	0.3	15	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.018	0.001	0.031	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0013	0.001	0.0022	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.019	0.001	0.033	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0042	0.001	0.0083	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0068	0.001	0.014	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0067	0.001	0.0091	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0013	0.001	0.0011	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	11200	50	11300	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.502	0.05	0.647	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	52.3	0.1	58.2	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	52.5	0.1	62.5	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.26	0.1	0.27	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	12.7	1	14.8	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.148	0.05	0.183	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	8740	50	8550	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.55	0.1	0.51	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	27.3	0.5	33.2	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	13.2	0.1	14.6	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	38.4	0.5	45.5	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	48400	50	49200	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	6.88	0.1	6.96	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	5.69	0.5	5.86	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3230	50	3210	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	1220	0.2	1960	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.77	0.1	1.34	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	19.1	0.5	23.2	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	518	10	506	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	389	50	373	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.68	0.1	1.02	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	386	50	357	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	42.7	0.1	46.6	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	0.053	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.4	0.1	0.67	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	981	1	932	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.389	0.05	0.511	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	142	0.2	134	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	52.1	0.5	51.5	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.011	0.01	0.011	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.4	0.05	5.1	0.05
Miscellaneous	Total Sulphur (S)			%	0.17	0.06	0.21	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD03A		QRD03B	
Sampled Date To		2025/09/30	COC#		20251109-1		20251109-1	
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C577804		C577804	
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD03A-9SEP25-M		QRD03B-9SEP25-M	
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSU674		DSU675	
			Matrix		Sediment		Sediment	
			Sampling Date		2025-09-09		2025-09-09	
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.21	N/A	7.27	N/A
	% sand by hydrometer			%	91	2	89	2
	% silt by hydrometer			%	9	2	10	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	27	0.3	40	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.0074	0.001	0.0058	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0011	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.0085	0.001	0.0058	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0021	0.001	0.0017	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0023	0.001	0.002	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.003	0.001	0.0022	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0011	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	21600	50	20900	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.286	0.05	0.254	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	35	0.1	30.7	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	73.9	0.1	64.1	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.36	0.1	0.33	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	9.4	1	9.2	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.15	0.05	0.124	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	8330	50	8680	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.39	0.1	0.4	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	37.3	0.5	35	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	14.3	0.1	13.9	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	46.8	0.5	42.5	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	43400	50	42300	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	5.03	0.1	3.59	0

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		QRD03C	QRD03DLB		
Sampled Date To		2025/09/30	COC#		20251109-1	20251109-1		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C577804	C577804		
Criteria 1		CCME Sediment Quality -FW	Sample ID		QRD03C-9SEP25-M	QRD03DLB-9SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSU676	DSU677		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-09	2025-09-09		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.11	N/A	7.47	N/A
	% sand by hydrometer			%	92	2	94	2
	% silt by hydrometer			%	7.1	2	6	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	29	0.3	35	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.023	0.001	0.046	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0041	0.001	0.018	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.027	0.001	0.064	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0035	0.001	0.0054	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0098	0.001	0.009	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0098	0.001	0.03	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0014	0.001	0.0054	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	0.0029	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0011	0.001	0.0029	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0015	0.001	0.0057	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	0.0018	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	0.0018	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	0.0015	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	15500	50	12500	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.274	0.05	0.319	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	41.4	0.1	45	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	54.2	0.1	51.3	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.28	0.1	0.27	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	9.4	1	10.7	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.129	0.05	0.142	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	8360	50	8640	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.4	0.1	0.41	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	28.7	0.5	26	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	12.1	0.1	11.9	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	37.6	0.5	37.5	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	40000	50	40500	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	3.25	0.1	3.86	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	7.67	0.5	6.27	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3530	50	3030	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	1310	0.2	1770	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.63	0.1	0.67	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	17.7	0.5	15.6	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	436	10	478	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	260	50	261	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.7	0.1	0.85	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.061	0.05	0.063	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	313	50	352	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	41	0.1	45	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.4	0.1	0.31	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	1260	1	1090	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.417	0.05	0.43	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	122	0.2	122	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	40.4	0.5	38.3	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.013	0.01	0.032	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.7	0.05	4.2	0.05
Miscellaneous	Total Sulphur (S)			%	0.08	0.06	0.09	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

		Site Location		QRD03ERB		QRD03F		
Sampled Date From		2025/08/10		20251109-1		20251109-1		
Sampled Date To		2025/09/30		C577804		C577804		
Projects		Sediment 2025 Quinsam River		QRD03ERB-9SEP25-M		QRD03F-9SEP25-M		
Criteria 1		CCME Sediment Quality -FW		DSU678		DSU679		
Criteria 2		CCME Sediment Quality-PEL		Sediment		Sediment		
		Matrix		2025-09-09		2025-09-09		
		Sampling Date						
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.18	N/A	6.54	N/A
	% sand by hydrometer			%	94	2	93	2
	% silt by hydrometer			%	6	2	6.4	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	30	0.3	38	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.023	0.001	0.1	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0024	0.001	0.022	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.025	0.001	0.12	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0058	0.001	0.02	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0093	0.001	0.032	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	0.0021	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	0.0011	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	0.0015	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0077	0.001	0.042	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	0.0027	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.001	0.001	0.006	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	0.0044	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	0.0029	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0014	0.001	0.0069	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	0.0023	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	0.0023	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	0.0023	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	10600	50	12100	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.308	0.05	0.28	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	40.4	0.1	34.6	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	48.2	0.1	41.9	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.21	0.1	0.25	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	9.5	1	10.8	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.136	0.05	0.152	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	7740	50	7890	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.36	0.1	0.43	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	23.8	0.5	27.8	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	10.6	0.1	12.7	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	34.9	0.5	37.1	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	36900	50	46800	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	14.9	0.1	4.28	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	5.31	0.5	5.96	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	2780	50	3310	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	870	0.2	613	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.66	0.1	0.63	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	15.7	0.5	17.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	453	10	474	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	263	50	308	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.75	0.1	0.53	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	324	50	337	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	37.9	0.1	34.2	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.3	0.1	0.36	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	976	1	1130	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.362	0.05	0.328	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	111	0.2	128	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	45.3	0.5	46.4	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.011	0.01	0.037	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.9	0.05	3.7	0.05
Miscellaneous	Total Sulphur (S)			%	0.14	0.06	0.19	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		75QR03ARB	75QR03ALB		
Sampled Date To		2025/09/30	COC#		08556482	08556482		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C576451	C576451		
Criteria 1		CCME Sediment Quality -FW	Sample ID		75QR03ARB-8SEP25-M	75QR03ALB-8SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSL646	DSL647		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-08	2025-09-08		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.21	N/A	6.77	N/A
	% sand by hydrometer			%	94	2	92	2
	% silt by hydrometer			%	5.9	2	7.6	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	21	0.3	18	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.0092	0.001	0.0043	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.0092	0.001	0.0043	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0027	0.001	0.0011	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0039	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0025	0.001	0.002	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	14000	50	12000	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.187	0.05	0.219	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	33.3	0.1	23	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	43.3	0.1	37.1	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.23	0.1	0.21	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	8.2	1	4.7	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.14	0.05	0.152	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	7460	50	6410	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.41	0.1	0.38	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	24.3	0.5	20.6	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	9.37	0.1	8.55	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	29.9	0.5	25.8	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	25800	50	23500	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	2.55	0.1	2.31	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	7.42	0.5	5.54	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3730	50	3170	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	324	0.2	446	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.53	0.1	0.84	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	15	0.5	12.6	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	415	10	377	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	176	50	162	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.4	0.1	0.57	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	278	50	207	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	34.1	0.1	26.9	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.38	0.1	0.34	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	1010	1	858	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.338	0.05	0.345	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	85.9	0.2	74.6	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	38.9	0.5	32.7	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	<0.020	0.02	<0.020	0.02
Miscellaneous	Total Organic Carbon (C)			%	2.8	0.05	2.7	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From2025/08/10 Sampled Date To2025/09/30 ProjectsSediment 2025 Quinsam River Criteria 1CCME Sediment Quality -FW Criteria 2CCME Sediment Quality-PEL		Site Location COC# Bureau Veritas Job # Sample ID Bureau Veritas Sample ID Matrix Sampling Date		75Q03A 08556482 C576451 75Q03A-3SEP25-S DSL645 Sediment 2025-09-03		75Q03A 08556482 C576451 75Q03A-3SEP25-M DSL640 Sediment 2025-09-03		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	6.96	N/A	6.97	N/A
	% sand by hydrometer			%	92	2	93	2
	% silt by hydrometer			%	6.6	2	5.1	2
	Clay Content			%	<2.0	2	<2.0	2
	Physical Testing			%	27	0.3	32	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.02	0.001	0.017	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0066	0.001	0.0071	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.027	0.001	0.024	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0046	0.001	0.0037	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0072	0.001	0.0061	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0014	0.001	0.0013	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0067	0.001	0.0062	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0016	0.001	0.0016	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0015	0.001	0.0018	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0019	0.001	0.0021	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0015	0.001	0.0016	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenzo(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	13600	50	13300	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.156	0.05	0.216	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	20.7	0.1	20.6	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	41.4	0.1	43.4	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.24	0.1	0.26	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	7.3	1	9.4	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.143	0.05	0.145	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	7420	50	7120	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.41	0.1	0.48	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	23.8	0.5	23.4	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	9.72	0.1	9.47	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	28.6	0.5	28.1	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	27800	50	27100	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	2.34	0.1	3.14	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	7.74	0.5	7.95	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3660	50	3540	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	313	0.2	308	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.53	0.1	0.57	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	15.2	0.5	15.1	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	403	10	386	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	179	50	167	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.43	0.1	0.49	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.087	0.05	0.244	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	250	50	243	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	35.5	0.1	35.5	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.42	0.1	0.46	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	970	1	989	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.346	0.05	0.403	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	82.6	0.2	79.7	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	40.1	0.5	42.2	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.016	0.01	0.016	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.5	0.05	3.2	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From		2025/08/10	Site Location		75Q03B	75Q03C		
Sampled Date To		2025/09/30	COC#		08556482	08556482		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C576451	C576451		
Criteria 1		CCME Sediment Quality -FW	Sample ID		75Q03B-3SEP25-M	75Q03C-3SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DSL641	DSL642		
			Matrix		Sediment	Sediment		
			Sampling Date		2025-09-03	2025-09-03		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	6.5	N/A	6.52	N/A
	% sand by hydrometer			%	89	2	91	2
	% silt by hydrometer			%	8.1	2	7.1	2
	Clay Content			%	2.9	2	2.5	2
Physical Testing	Moisture			%	38	0.3	51	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.024	0.001	0.042	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.017	0.001	0.027	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.041	0.001	0.069	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0066	0.001	0.011	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0096	0.001	0.012	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0014	0.001	0.0026	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.0064	0.001	0.015	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	0.0016	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0045	0.001	0.0049	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0026	0.001	0.0047	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.008	0.001	0.015	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0016	0.001	0.0029	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	12100	50	12000	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.147	0.05	0.152	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	13.5	0.1	25.1	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	36.8	0.1	39	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.19	0.1	0.19	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	8.5	1	6.7	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.154	0.05	0.111	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	6740	50	6230	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.36	0.1	0.36	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	20.7	0.5	20.2	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	7.91	0.1	8.44	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	28.8	0.5	27.5	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	22200	50	26900	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	2.3	0.1	2.33	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	5.95	0.5	5.91	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3080	50	3000	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	184	0.2	243	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.57	0.1	0.5	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	13.3	0.5	12.7	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	382	10	357	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	158	50	150	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.52	0.1	0.47	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	0.106	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	227	50	212	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	31.2	0.1	29	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.32	0.1	0.32	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	805	1	812	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.357	0.05	0.354	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	72.4	0.2	72.8	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	34.7	0.5	33.2	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.034	0.01	0.056	0.01
Miscellaneous	Total Organic Carbon (C)			%	4.7	0.05	3.8	0.05
Miscellaneous	Total Sulphur (S)			%	0.11	0.06	0.07	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

Sampled Date From2025/08/10 Sampled Date To2025/09/30 ProjectsSediment 2025 Quinsam River Criteria 1CCME Sediment Quality -FW Criteria 2CCME Sediment Quality-PEL		Site Location COC# Bureau Veritas Job # Sample ID Bureau Veritas Sample ID Matrix Sampling Date		75Q03D 08556482 C576451 75Q03D-3SEP25-M DSL643 Sediment 2025-09-03		75Q03E 08556482 C576451 75Q03E-3SEP25-M DSL644 Sediment 2025-09-03		
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.02	N/A	6.69	N/A
	% sand by hydrometer			%	83	2	87	2
	% silt by hydrometer			%	14	2	11	2
	Clay Content			%	2.9	2	2.4	2
Physical Testing	Moisture			%	45	0.3	50	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.12	0.001	0.05	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.02	0.001	0.015	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.14	0.001	0.065	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.03	0.001	0.012	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.049	0.001	0.02	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	0.0024	0.001	0.0022	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.032	0.001	0.016	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	0.0015	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0048	0.001	0.0036	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0046	0.001	0.003	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.005	0.001	0.0044	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0057	0.001	0.0038	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	0.0022	0.001	0.002	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	0.0022	0.001	0.002	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	14100	50	12000	50
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.311	0.05	0.171	0.05
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	22.1	0.1	11.6	0.1
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	54.9	0.1	39.8	0.1
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.22	0.1	0.21	0.1
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	6.2	1	8.3	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.347	0.05	0.156	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	6630	50	6780	50
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg	0.48	0.1	0.36	0.1
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	24.3	0.5	19.8	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	11	0.1	7.71	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	35.5	0.5	27.7	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	29100	50	20800	50
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	2.77	0.1	2.23	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	6.69	0.5	5.57	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	3810	50	2990	50
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	518	0.2	204	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	1.02	0.1	0.5	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	15.5	0.5	12.6	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	364	10	355	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	196	50	164	50
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	0.78	0.1	0.53	0.1
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	0.231	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	216	50	225	50
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	35.2	0.1	28.5	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.36	0.1	0.31	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	702	1	832	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.463	0.05	0.39	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	88.3	0.2	72.2	0.2
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	44.3	0.5	33.2	0.5
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.038	0.01	0.034	0.01
Miscellaneous	Total Organic Carbon (C)			%	3	0.05	3.7	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg				
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg				
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg				
LEGEND								
"N/A"		Not Applicable						
Bold & Red		Exceedance						
Red with White Text		Exceeds Both Criteria						
Highlighted		DL > Criteria						
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Chemistry 2026

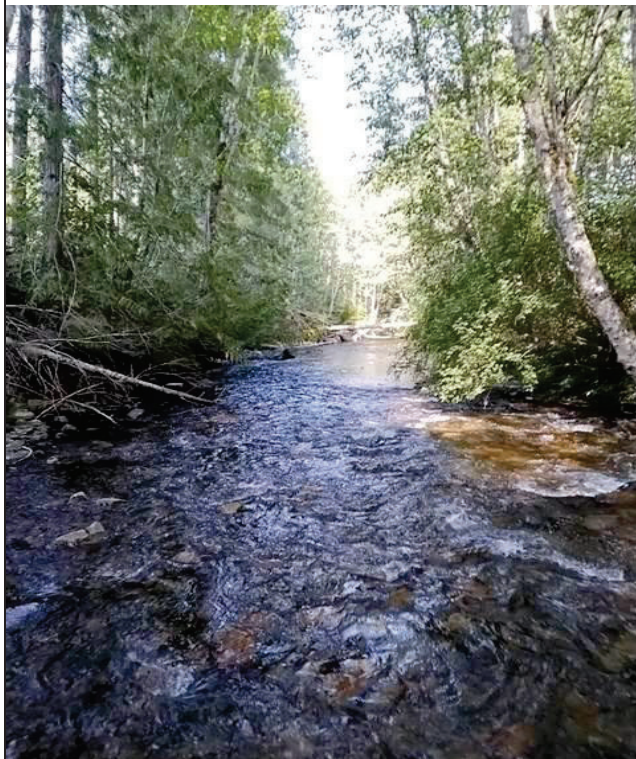
Sampled Date From		2025/08/10	Site Location		75QR03BRB <th colspan="2">75QR03BLB</th>	75QR03BLB		
Sampled Date To		2025/09/30	COC#		08556823	08556823		
Projects		Sediment 2025 Quinsam River	Bureau Veritas Job #		C579834	C579834		
Criteria 1		CCME Sediment Quality -FW	Sample ID		75QR03BRB-18SEP25-M	75QR03BLB-18SEP25-M		
Criteria 2		CCME Sediment Quality-PEL	Bureau Veritas Sample ID		DT1157	DT1158		
		Matrix		Sediment	Sediment			
		Sampling Date		2025-09-18	2025-09-18			
Report Group	Parameter Name	Criteria 1	Criteria 2	Units	Result	DL	Result	DL
	Soluble (2:1) pH			pH	7.18	N/A	7.11	N/A
	% sand by hydrometer			%	98	2	97	2
	% silt by hydrometer			%	<2.0	2	2.7	2
	Clay Content			%	<2.0	2	<2.0	2
Physical Testing	Moisture			%	22	0.3	22	0.3
Semivolatile Organics by GC-MS	Low Molecular Weight PAH's			mg/kg	0.024	0.001	0.022	0.001
Semivolatile Organics by GC-MS	High Molecular Weight PAH's			mg/kg	0.0077	0.001	0.0049	0.001
Semivolatile Organics by GC-MS	Total PAH			mg/kg	0.032	0.001	0.027	0.001
Semivolatile Organics by GC-MS	B[a]P TPE Total Potency Equivalents			mg/kg	<0.010	0.01	<0.010	0.01
Semivolatile Organics by GC-MS	Naphthalene	0.0346	0.391	mg/kg	0.0051	0.001	0.006	0.001
Semivolatile Organics by GC-MS	2-Methylnaphthalene	0.0202	0.201	mg/kg	0.0089	0.001	0.01	0.001
Semivolatile Organics by GC-MS	Acenaphthylene	0.00587	0.128	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Acenaphthene	0.00671	0.0889	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Fluorene	0.0212	0.144	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Phenanthrene	0.0419	0.515	mg/kg	0.01	0.001	0.006	0.001
Semivolatile Organics by GC-MS	Anthracene	0.0469	0.245	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Fluoranthene	0.111	2.355	mg/kg	0.0018	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Pyrene	0.053	0.875	mg/kg	0.0019	0.001	0.0012	0.001
Semivolatile Organics by GC-MS	Benzo(a)anthracene	0.0317	0.385	mg/kg	0.0015	0.001	0.001	0.001
Semivolatile Organics by GC-MS	Chrysene	0.0571	0.862	mg/kg	0.0024	0.001	0.0015	0.001
Semivolatile Organics by GC-MS	Benzo(b&j)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(b)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(k)fluoranthene			mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Benzo(a)pyrene	0.0319	0.782	mg/kg	<0.0010	0.001	<0.0010	0.001
Semivolatile Organics by GC-MS	Indeno(1,2,3-cd)pyrene			mg/kg	<0.0020	0.002	<0.0020	0.002
Semivolatile Organics by GC-MS	Dibenz(a,h)anthracene	0.00622	0.135	mg/kg	<0.00050	0.0005	<0.00050	0.0005
Semivolatile Organics by GC-MS	Benzo(g,h,i)perylene			mg/kg	<0.0020	0.002	<0.0020	0.002
Elements by Atomic Spectroscopy	Total Aluminum (Al)			mg/kg	12600	100	13400	100
Elements by Atomic Spectroscopy	Total Antimony (Sb)			mg/kg	0.41	0.1	0.44	0.1
Elements by Atomic Spectroscopy	Total Arsenic (As)	5.9	17	mg/kg	22.1	0.2	21.4	0.2
Elements by Atomic Spectroscopy	Total Barium (Ba)			mg/kg	31.3	0.2	37.8	0.2
Elements by Atomic Spectroscopy	Total Beryllium (Be)			mg/kg	0.26	0.2	0.26	0.2
Elements by Atomic Spectroscopy	Total Bismuth (Bi)			mg/kg	<0.10	0.1	<0.10	0.1
Elements by Atomic Spectroscopy	Total Boron (B)			mg/kg	5.2	1	5.5	1
Elements by Atomic Spectroscopy	Total Cadmium (Cd)	0.6	3.5	mg/kg	0.539	0.05	0.474	0.05
Elements by Atomic Spectroscopy	Total Calcium (Ca)			mg/kg	6680	100	6140	100
Elements by Atomic Spectroscopy	Total Cesium (Cs)			mg/kg				
Elements by Atomic Spectroscopy	Total Chromium (Cr)	37.3	90	mg/kg	22.5	0.5	22.9	0.5
Elements by Atomic Spectroscopy	Total Cobalt (Co)			mg/kg	11.7	0.1	11.8	0.1
Elements by Atomic Spectroscopy	Total Copper (Cu)	35.7	197	mg/kg	30.8	0.5	32.1	0.5
Elements by Atomic Spectroscopy	Total Iron (Fe)			mg/kg	35800	100	33700	100
Elements by Atomic Spectroscopy	Total Lead (Pb)	35	91.3	mg/kg	2.13	0.1	2.31	0.1
Elements by Atomic Spectroscopy	Total Lithium (Li)			mg/kg	7.49	0.5	8.33	0.5
Elements by Atomic Spectroscopy	Total Magnesium (Mg)			mg/kg	5430	100	5320	100
Elements by Atomic Spectroscopy	Total Manganese (Mn)			mg/kg	457	0.2	472	0.2
Elements by Atomic Spectroscopy	Total Molybdenum (Mo)			mg/kg	0.92	0.1	0.96	0.1
Elements by Atomic Spectroscopy	Total Nickel (Ni)			mg/kg	19.7	0.5	20.5	0.5
Elements by Atomic Spectroscopy	Total Phosphorus (P)			mg/kg	298	10	403	10
Elements by Atomic Spectroscopy	Total Potassium (K)			mg/kg	241	100	277	100
Elements by Atomic Spectroscopy	Total Selenium (Se)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Silver (Ag)			mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Sodium (Na)			mg/kg	168	100	177	100
Elements by Atomic Spectroscopy	Total Strontium (Sr)			mg/kg	29.9	0.1	36.9	0.1
Elements by Atomic Spectroscopy	Total Thallium (Tl)			mg/kg	<0.050	0.05	0.055	0.05
Elements by Atomic Spectroscopy	Total Tin (Sn)			mg/kg	0.34	0.1	0.32	0.1
Elements by Atomic Spectroscopy	Total Titanium (Ti)			mg/kg	919	1	753	1
Elements by Atomic Spectroscopy	Total Uranium (U)			mg/kg	0.351	0.05	0.399	0.05
Elements by Atomic Spectroscopy	Total Vanadium (V)			mg/kg	102	1	93.8	1
Elements by Atomic Spectroscopy	Total Zinc (Zn)	123	315	mg/kg	61.7	1	65.6	1
Semivolatile Organics by GC-MS	Index of Additive Cancer Risk(IACR)			N/A	0.015	0.01	0.013	0.01
Miscellaneous	Total Organic Carbon (C)			%	3.5	0.05	2.2	0.05
Miscellaneous	Total Sulphur (S)			%	<0.06	0.06	<0.06	0.06
Elements by Atomic Spectroscopy	Total Mercury (Hg)	0.17	0.486	mg/kg	<0.050	0.05	<0.050	0.05
Elements by Atomic Spectroscopy	Total Tungsten (W)			mg/kg	<0.50	0.5	<0.50	0.5
Elements by Atomic Spectroscopy	Total Zirconium (Zr)			mg/kg	5.05	0.5	4.33	0.5
LEGEND								
"N/A"	Not Applicable							
Bold & Red	Exceedance							
Red with White Text	Exceeds Both Criteria							
Highlighted	DL > Criteria							
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by Bureau Veritas.								

Appendix B - Sediment Exceedance Summary Table

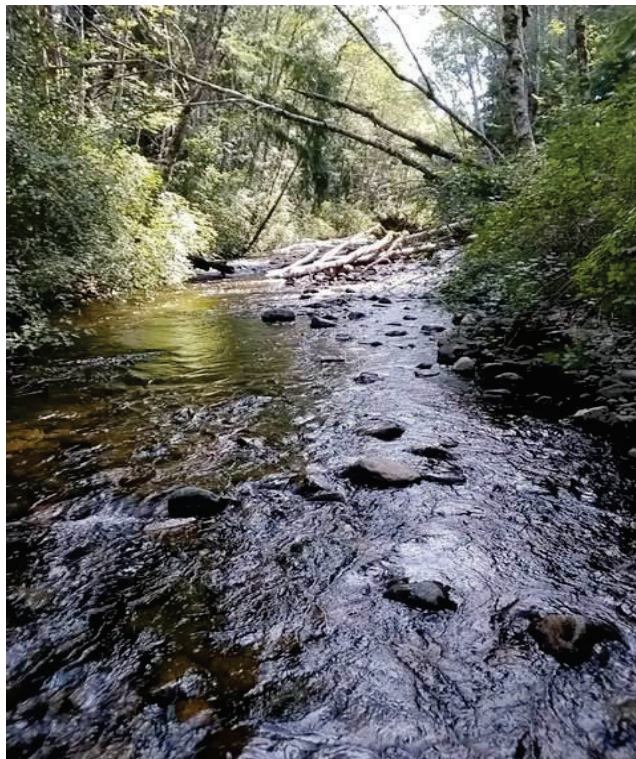
Results

Criteria Name	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
CCME Sediment Quality -FW	WA1-28AUG25-M	DRX153	C574346	Total Arsenic (As)	5.9	8.47	0.1	mg/kg
CCME Sediment Quality -FW	WA1-28AUG25-M	DRX153	C574346	Total Copper (Cu)	35.7	85.5	0.5	mg/kg
CCME Sediment Quality -FW	WA2-28AUG25-M	DRX154	C574346	Total Arsenic (As)	5.9	6.35	0.1	mg/kg
CCME Sediment Quality -FW	WA2-28AUG25-M	DRX154	C574346	Total Copper (Cu)	35.7	66.6	0.5	mg/kg
CCME Sediment Quality -FW	WA3-28AUG25-M	DRX155	C574346	Total Arsenic (As)	5.9	8.22	0.1	mg/kg
CCME Sediment Quality -FW	WA3-28AUG25-M	DRX155	C574346	Total Copper (Cu)	35.7	71.3	0.5	mg/kg
CCME Sediment Quality -FW	WA4-28AUG25-M	DRX156	C574346	Total Arsenic (As)	5.9	8.74	0.1	mg/kg
CCME Sediment Quality -FW	WA4-28AUG25-M	DRX156	C574346	Total Copper (Cu)	35.7	83.4	0.5	mg/kg
CCME Sediment Quality -FW	WA5-28AUG25-M	DRX157	C574346	Total Arsenic (As)	5.9	9.92	0.1	mg/kg
CCME Sediment Quality -FW	WA5-28AUG25-M	DRX157	C574346	Total Copper (Cu)	35.7	66.2	0.5	mg/kg
CCME Sediment Quality -FW	WA2-28AUG25-S	DRX158	C574346	Total Arsenic (As)	5.9	8.96	0.1	mg/kg
CCME Sediment Quality -FW	WA2-28AUG25-S	DRX158	C574346	Total Copper (Cu)	35.7	85.8	0.5	mg/kg
CCME Sediment Quality -FW	75Q03A-3SEP25-M	DSL640	C576451	Total Arsenic (As)	5.9	20.6	0.1	mg/kg
CCME Sediment Quality -FW	75Q03B-3SEP25-M	DSL641	C576451	Total Arsenic (As)	5.9	13.5	0.1	mg/kg
CCME Sediment Quality -FW	75Q03C-3SEP25-M	DSL642	C576451	Total Arsenic (As)	5.9	25.1	0.1	mg/kg
CCME Sediment Quality -FW	75Q03D-3SEP25-M	DSL643	C576451	2-Methylnaphthalene	0.0202	0.049	0.001	mg/kg
CCME Sediment Quality -FW	75Q03D-3SEP25-M	DSL643	C576451	Total Arsenic (As)	5.9	22.1	0.1	mg/kg
CCME Sediment Quality -FW	75Q03E-3SEP25-M	DSL644	C576451	Total Arsenic (As)	5.9	11.6	0.1	mg/kg
CCME Sediment Quality -FW	75Q03A-3SEP25-S	DSL645	C576451	Total Arsenic (As)	5.9	20.7	0.1	mg/kg
CCME Sediment Quality -FW	75Q03ARB-8SEP25-M	DSL646	C576451	Total Arsenic (As)	5.9	33.3	0.1	mg/kg
CCME Sediment Quality -FW	75Q03ALB-8SEP25-M	DSL647	C576451	Total Arsenic (As)	5.9	23	0.1	mg/kg
CCME Sediment Quality -FW	QRD03A-9SEP25-M	DSU674	C577804	Total Arsenic (As)	5.9	35	0.1	mg/kg
CCME Sediment Quality -FW	QRD03A-9SEP25-M	DSU674	C577804	Total Copper (Cu)	35.7	46.8	0.5	mg/kg
CCME Sediment Quality -FW	QRD03B-9SEP25-M	DSU675	C577804	Total Arsenic (As)	5.9	30.7	0.1	mg/kg
CCME Sediment Quality -FW	QRD03B-9SEP25-M	DSU675	C577804	Total Copper (Cu)	35.7	42.5	0.5	mg/kg
CCME Sediment Quality -FW	QRD03C-9SEP25-M	DSU676	C577804	Total Arsenic (As)	5.9	41.4	0.1	mg/kg
CCME Sediment Quality -FW	QRD03C-9SEP25-M	DSU676	C577804	Total Copper (Cu)	35.7	37.6	0.5	mg/kg
CCME Sediment Quality -FW	QRD03DLB-9SEP25-M	DSU677	C577804	Total Arsenic (As)	5.9	45	0.1	mg/kg
CCME Sediment Quality -FW	QRD03DLB-9SEP25-M	DSU677	C577804	Total Copper (Cu)	35.7	37.5	0.5	mg/kg
CCME Sediment Quality -FW	QRD03ERB-9SEP25-M	DSU678	C577804	Total Arsenic (As)	5.9	40.4	0.1	mg/kg
CCME Sediment Quality -FW	QRD03F-9SEP25-M	DSU679	C577804	2-Methylnaphthalene	0.0202	0.032	0.001	mg/kg
CCME Sediment Quality -FW	QRD03F-9SEP25-M	DSU679	C577804	Phenanthrene	0.0419	0.042	0.001	mg/kg
CCME Sediment Quality -FW	QRD03F-9SEP25-M	DSU679	C577804	Total Arsenic (As)	5.9	34.6	0.1	mg/kg
CCME Sediment Quality -FW	QRD03F-9SEP25-M	DSU679	C577804	Total Copper (Cu)	35.7	37.1	0.5	mg/kg
CCME Sediment Quality -FW	QRD02A-10SEP25-M	DSU680	C577804	2-Methylnaphthalene	0.0202	0.041	0.001	mg/kg
CCME Sediment Quality -FW	QRD02A-10SEP25-M	DSU680	C577804	Total Arsenic (As)	5.9	58.6	0.1	mg/kg
CCME Sediment Quality -FW	QRD02A-10SEP25-M	DSU680	C577804	Total Copper (Cu)	35.7	37.7	0.5	mg/kg
CCME Sediment Quality -FW	QRD02BLB-10SEP25-M	DSU681	C577804	2-Methylnaphthalene	0.0202	0.026	0.001	mg/kg
CCME Sediment Quality -FW	QRD02BLB-10SEP25-M	DSU681	C577804	Total Arsenic (As)	5.9	87.1	0.1	mg/kg
CCME Sediment Quality -FW	QRD02BLB-10SEP25-M	DSU681	C577804	Total Copper (Cu)	35.7	39.3	0.5	mg/kg
CCME Sediment Quality -FW	QRD02CRB-10SEP25-M	DSU682	C577804	Total Arsenic (As)	5.9	97.7	0.1	mg/kg
CCME Sediment Quality -FW	QRD02CRB-10SEP25-M	DSU682	C577804	Total Copper (Cu)	35.7	44.4	0.5	mg/kg
CCME Sediment Quality -FW	QRD02D-10SEP25-M	DSU683	C577804	Total Arsenic (As)	5.9	57.4	0.1	mg/kg
CCME Sediment Quality -FW	QRD02D-10SEP25-M	DSU683	C577804	Total Copper (Cu)	35.7	38.6	0.5	mg/kg
CCME Sediment Quality -FW	QRD02ELB-10SEP25-M	DSU684	C577804	Total Arsenic (As)	5.9	54.5	0.1	mg/kg
CCME Sediment Quality -FW	QRD02ELB-10SEP25-M	DSU684	C577804	Total Copper (Cu)	35.7	41.4	0.5	mg/kg
CCME Sediment Quality -FW	QRD02ERB-10SEP25-M	DSU685	C577804	Total Arsenic (As)	5.9	542	0.1	mg/kg
CCME Sediment Quality -FW	QRD02ERB-10SEP25-M	DSU685	C577804	Total Copper (Cu)	35.7	41	0.5	mg/kg
CCME Sediment Quality -FW	QRD02FLB-10SEP25-M	DSU686	C577804	Total Arsenic (As)	5.9	52.3	0.1	mg/kg
CCME Sediment Quality -FW	QRD02FLB-10SEP25-M	DSU686	C577804	Total Copper (Cu)	35.7	38.4	0.5	mg/kg
CCME Sediment Quality -FW	QRD02FRB-10SEP25-M	DSU687	C577804	Total Arsenic (As)	5.9	58.2	0.1	mg/kg
CCME Sediment Quality -FW	QRD02FRB-10SEP25-M	DSU687	C577804	Total Copper (Cu)	35.7	45.5	0.5	mg/kg
CCME Sediment Quality -FW	QRU01RB-17SEP25-M	DTE466	C579274	Naphthalene	0.0346	0.075	0.001	mg/kg
CCME Sediment Quality -FW	QRU01RB-17SEP25-M	DTE466	C579274	2-Methylnaphthalene	0.0202	0.1	0.001	mg/kg
CCME Sediment Quality -FW	QRU01RB-17SEP25-M	DTE466	C579274	Phenanthrene	0.0419	0.042	0.001	mg/kg
CCME Sediment Quality -FW	QRU01RB-17SEP25-M	DTE466	C579274	Total Arsenic (As)	5.9	9.95	0.2	mg/kg
CCME Sediment Quality -FW	QRU01LB-17SEP25-M	DTE467	C579274	2-Methylnaphthalene	0.0202	0.042	0.001	mg/kg
CCME Sediment Quality -FW	QRU01LB-17SEP25-M	DTE467	C579274	Total Arsenic (As)	5.9	12.6	0.2	mg/kg
CCME Sediment Quality -FW	QRD01LB-16SEP25-M	DTE468	C579274	2-Methylnaphthalene	0.0202	0.028	0.001	mg/kg
CCME Sediment Quality -FW	QRD01LB-16SEP25-M	DTE468	C579274	Total Arsenic (As)	5.9	20.4	0.2	mg/kg
CCME Sediment Quality -FW	QRD01RB-16SEP25-M	DTE469	C579274	Total Arsenic (As)	5.9	28.6	0.2	mg/kg
CCME Sediment Quality -FW	75Q03BRB-18SEP25-M	DTI157	C579834	Total Arsenic (As)	5.9	22.1	0.2	mg/kg
CCME Sediment Quality -FW	75Q03BLB-18SEP25-M	DTI158	C579834	Total Arsenic (As)	5.9	21.4	0.2	mg/kg
CCME Sediment Quality-PEL	75Q03A-3SEP25-M	DSL640	C576451	Total Arsenic (As)	17	20.6	0.1	mg/kg
CCME Sediment Quality-PEL	75Q03C-3SEP25-M	DSL642	C576451	Total Arsenic (As)	17	25.1	0.1	mg/kg
CCME Sediment Quality-PEL	75Q03D-3SEP25-M	DSL643	C576451	Total Arsenic (As)	17	22.1	0.1	mg/kg
CCME Sediment Quality-PEL	75Q03A-3SEP25-S	DSL645	C576451	Total Arsenic (As)	17	20.7	0.1	mg/kg
CCME Sediment Quality-PEL	75Q03ARB-8SEP25-M	DSL646	C576451	Total Arsenic (As)	17	33.3	0.1	mg/kg
CCME Sediment Quality-PEL	75Q03ALB-8SEP25-M	DSL647	C576451	Total Arsenic (As)	17	23	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03A-9SEP25-M	DSU674	C577804	Total Arsenic (As)	17	35	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03B-9SEP25-M	DSU675	C577804	Total Arsenic (As)	17	30.7	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03C-9SEP25-M	DSU676	C577804	Total Arsenic (As)	17	41.4	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03DLB-9SEP25-M	DSU677	C577804	Total Arsenic (As)	17	45	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03ERB-9SEP25-M	DSU678	C577804	Total Arsenic (As)	17	40.4	0.1	mg/kg
CCME Sediment Quality-PEL	QRD03F-9SEP25-M	DSU679	C577804	Total Arsenic (As)	17	34.6	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02A-10SEP25-M	DSU680	C577804	Total Arsenic (As)	17	58.6	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02BLB-10SEP25-M	DSU681	C577804	Total Arsenic (As)	17	87.1	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02CRB-10SEP25-M	DSU682	C577804	Total Arsenic (As)	17	97.7	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02D-10SEP25-M	DSU683	C577804	Total Arsenic (As)	17	57.4	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02ELB-10SEP25-M	DSU684	C577804	Total Arsenic (As)	17	54.5	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02ERB-10SEP25-M	DSU685	C577804	Total Arsenic (As)	17	542	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02FLB-10SEP25-M	DSU686	C577804	Total Arsenic (As)	17	52.3	0.1	mg/kg
CCME Sediment Quality-PEL	QRD02FRB-10SEP25-M	DSU687	C577804	Total Arsenic (As)	17	58.2	0.1	mg/kg
CCME Sediment Quality-PEL	QRD01LB-16SEP25-M	DTE468	C579274	Total Arsenic (As)	17	20.4	0.2	mg/kg
CCME Sediment Quality-PEL	QRD01RB-16SEP25-M	DTE469	C579274	Total Arsenic (As)	17	28.6	0.2	mg/kg
CCME Sediment Quality-PEL	75Q03BRB-18SEP25-M	DTI157	C579834	Total Arsenic (As)	17	22.1	0.2	mg/kg
CCME Sediment Quality-PEL	75Q03BLB-18SEP25-M	DTI158	C579834	Total Arsenic (As)	17	21.4	0.2	mg/kg

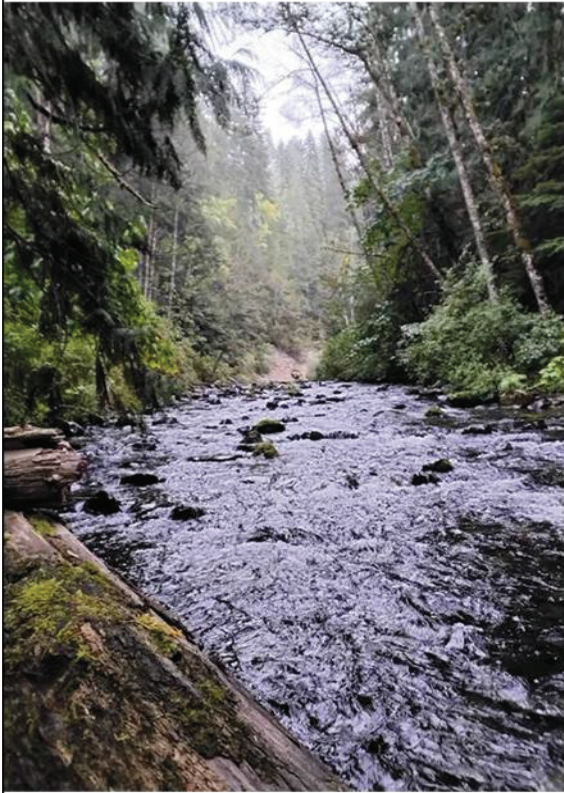
Attachment C Photographs of Quinsam River
Stations, 2025



WA Looking Upstream



WA Looking Downstream



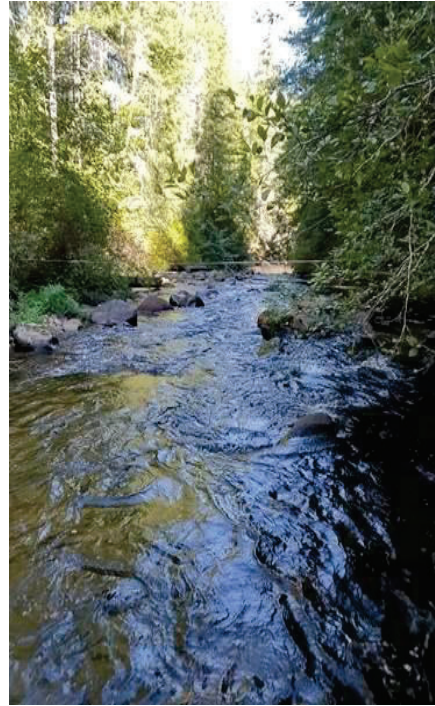
QRU-01 Looking Upstream



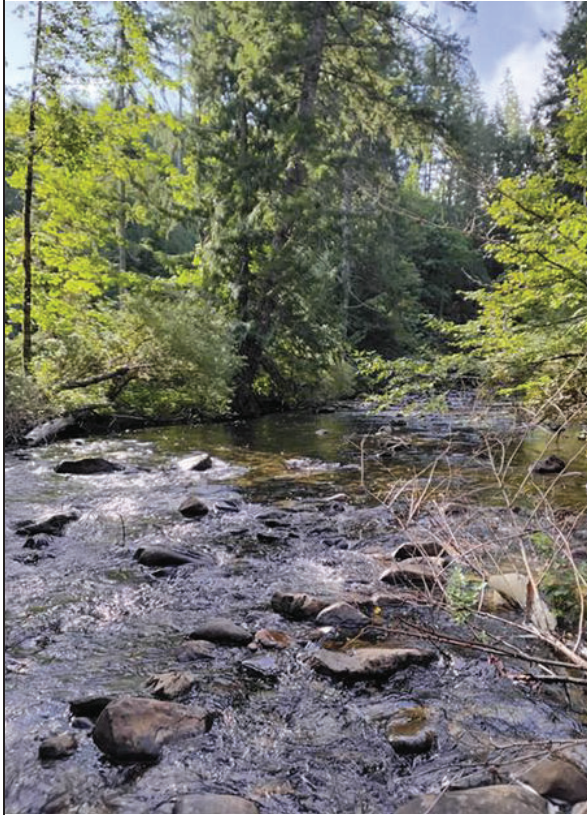
QRU-01 Looking Downstream



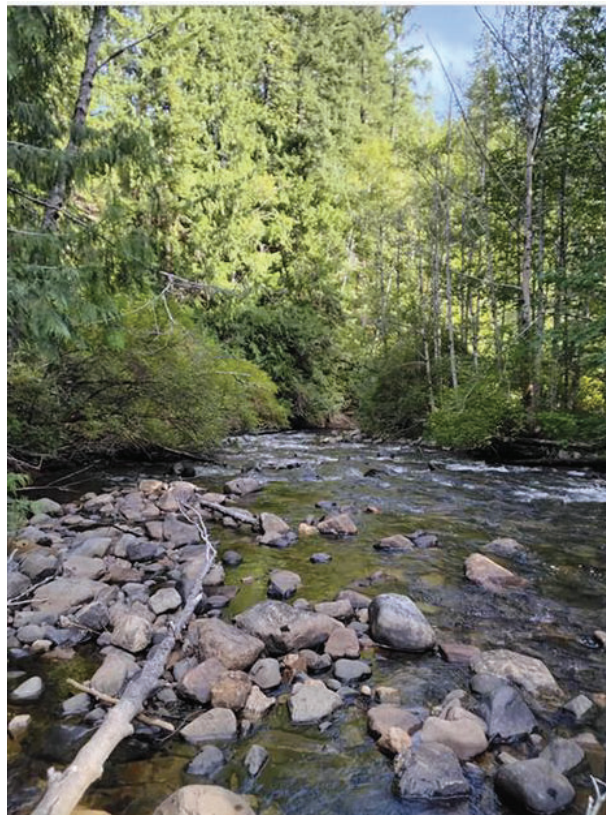
QRD-01 Looking Upstream



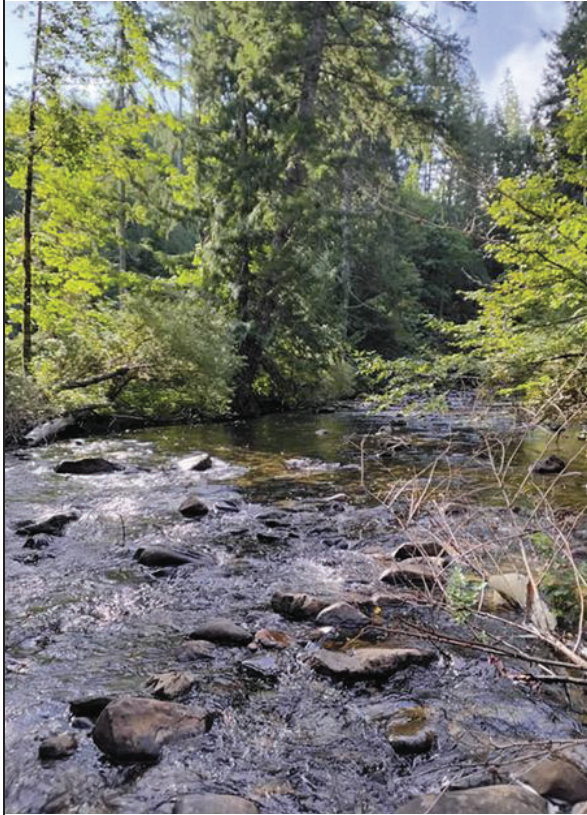
QRD-01 Looking Downstream



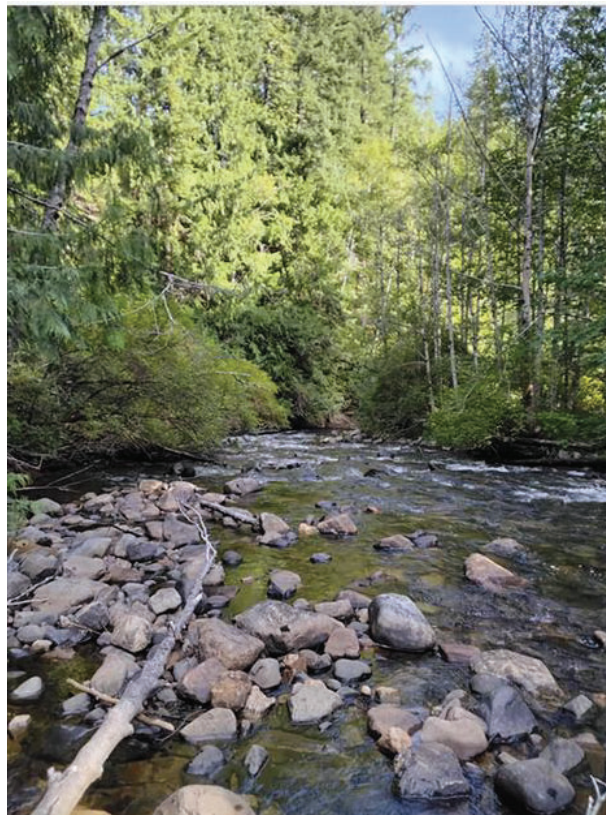
QRD-02 Looking Upstream



QRD-02 Looking Downstream



QRD-02 Looking Upstream



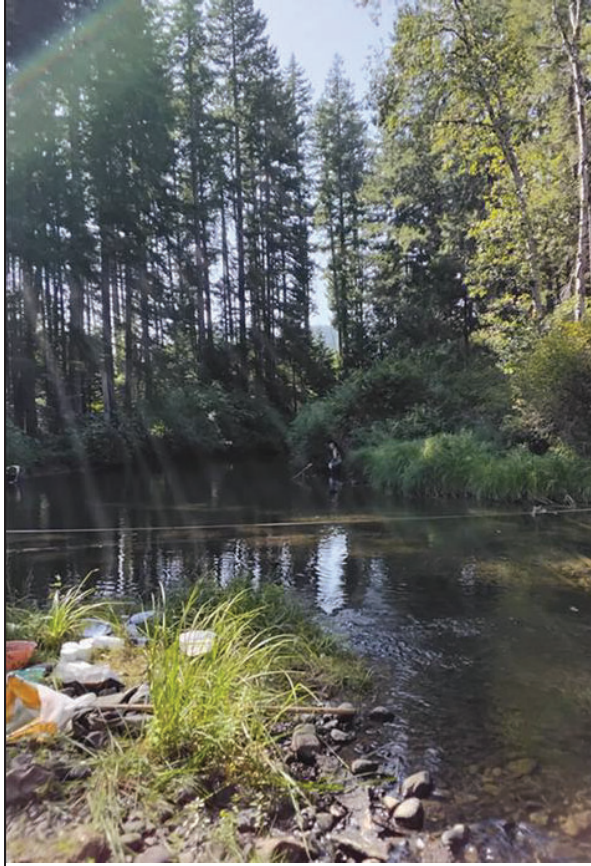
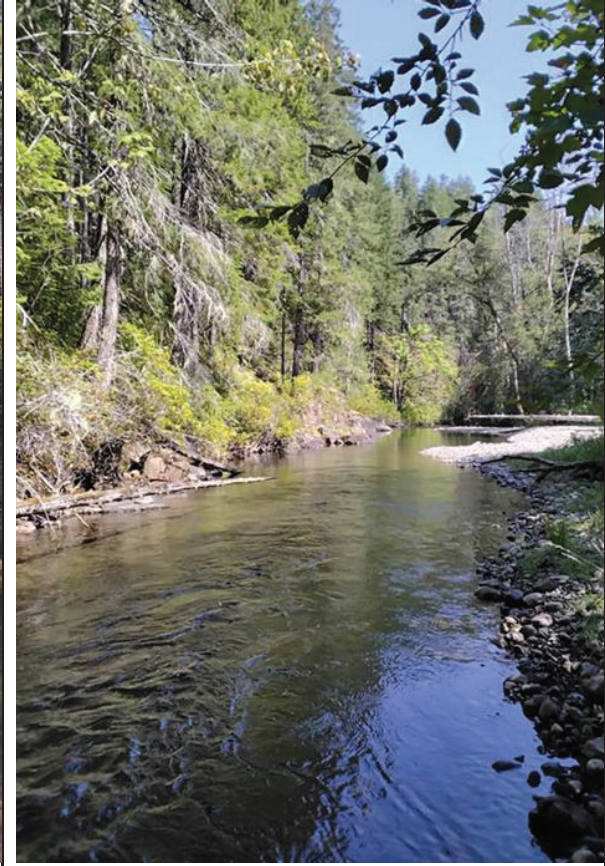
QRD-02 Looking Downstream

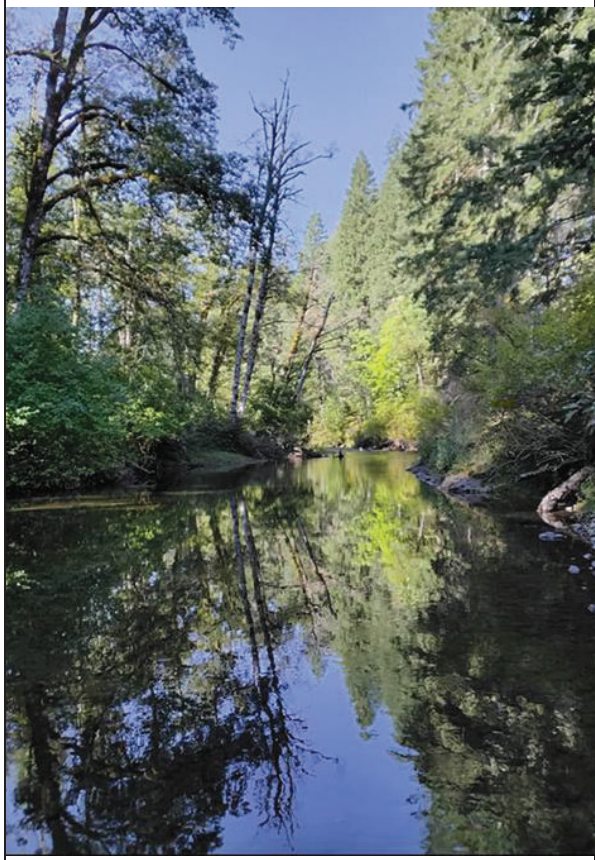
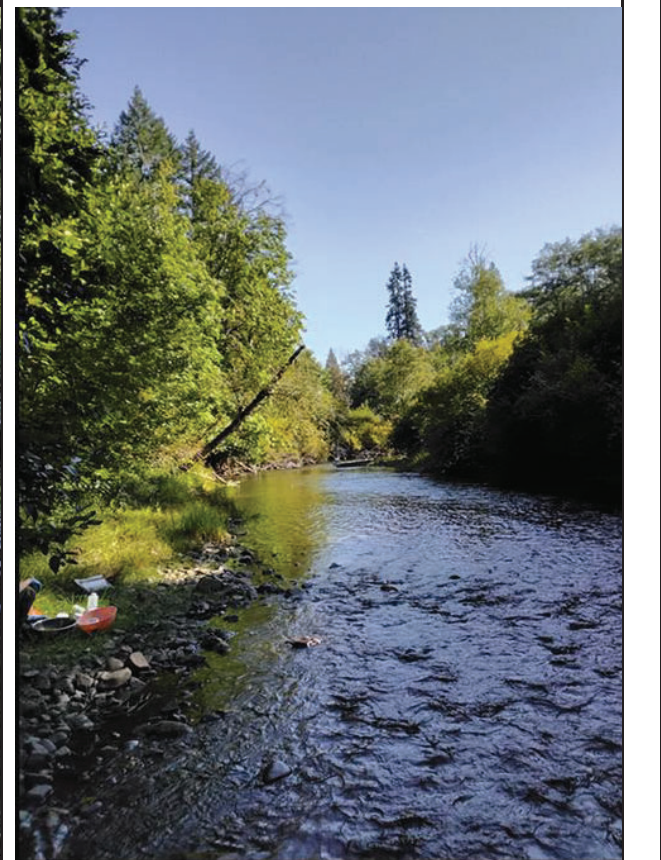


7SQR03A Looking Upstream



7SQR03A Looking Downstream

	
7SQ03 Looking Upstream	7SQ03 Looking Downstream

	
7SQR03B Looking Upstream	7SQR03B Looking Downstream

Attachment D Benthic Invertebrate Taxonomy Methods, Biologica 2025



Freshwater Benthic Enumeration and Identification Methods

Client: Quinsam Coal Corp (MNP LTD)

Project: Quinsam River

Protocol: CABIN

Sample Inventory

Sample arrival: 26-Sep-25

Number of samples: 9 total, 8 processed

Number of jars: 39

Mesh size: 400 µm

Biologica project number: fb25-163

The chain of custody documents were checked and approved with the client. Samples were not screened in the field and were transferred removing the formalin, washed on a 400 µm geological screen and then placed into 70% ethanol and stained with Rose Bengal to aid in sorting. Each sample was provided a unique identification number and placed in the queue for analysis.

Table 1. Summary of benthic samples processed for Quinsam Coal Corp (MNP LTD) Quinsam River, 2025.

Batch	Client Sample ID	Date Sampled	Biologica Sample ID	# of Jars	Sub-sample	Organisms Counted
1	QWA01	27-Aug-25	fb25-163-001	5	19/100	321
1	QRU01	17-Sep-25	fb25-163-002	3	13/100	328
1	QRD01	16-Sep-25	fb25-163-003	5	8/100	333
1	QRD02A*	10-Sep-25	fb25-163-004	4	23/100	n/a
1	QRD02B	16-Sep-25	fb25-163-005	4	19/100	336
1	QRD03	09-Sep-25	fb25-163-006	6	11/100	369
2	7SQ03	03-Sep-25	fb25-163-007	4	7/100	336
2	7SQR03A	08-Sep-25	fb25-163-008	2	Whole	461
2	7SQR03B	18-Sep-25	fb25-163-009	6	5/100	324

*QRD02A – sample was sorted but not selected for identification.

Sample Processing

Sorting:

Samples were sorted using dissecting microscopes at 10–40x magnification by trained personnel. To minimize potential sorter bias, samples were distributed among technicians such that no one person sorted all the replicates of a given sample or station.

Samples were subsampled using a Marchant box. Splitting of the sample was performed as detailed in the Environment and Climate Change Canada CABIN Laboratory Methods document (2020). A minimum 300 count, or 5 cell minimum was sorted. In the case of low

organism abundance samples that did not reach a 300 count within 50% of the sample the entire sample was sorted.

Sorting QA/QC:

To ensure sorting efficiency was >95%, whole and/or partial sub-samples were re-sorted. Sorting efficiency was calculated using the following equation (where total count = final total number of organisms in sample):

$$\text{Sorting efficiency} = [1 - (\# \text{ of organisms in spot check or re-sort} / \text{total organisms})] \times 100$$

*Total organisms includes the original count and the number found from the re-sort

All samples checked must meet or exceed 95% sorting efficiency. Any samples falling below 95% sorting efficiency are re-sorted in their entirety, and additional checks are undertaken as necessary. For quality assurance, QA re-sorts were performed on 10% of samples, or a minimum of three. Three samples were randomly selected and re-sorted in their entirety. Refer to Table 2 for sorting efficiency results.

Table 2. Summary of sorting QA/QC results for Quinsam Coal Corp (MNP LTD) Quinsam River, 2025.

Client Sample ID	Biologica Sample ID	Sorting Efficiency QA: Whole Re-sort
QRD01	fb25-163-003	99.70%
QRD02A	fb25-163-004	98.46%
7SQ03	fb25-163-007	98.47%
Average:		98.88%

Identification:

All organisms were identified using a combination of dissecting (10–40x) and compound (100–1000x) microscopes and standard taxonomic keys (see methodological and taxonomic references) to the level specified by the client: species or LPL (lowest practicable level). As required, chironomids and oligochaetes were cleared and slide-mounted. All specimens were archived in air-tight glass vials with glycerin and 70% ethanol for long-term storage. Taxonomic data were recorded in Biologica's custom database.

Any species new to Biologica's verified reference collections are confirmed by one of Biologica's secondary certified taxonomists.

Identification QA/QC:

For quality assurance of identification, 10% of samples were randomly selected and re-identified by a second trained taxonomist. Refer to Table 3 for QA results. Standard taxonomic effort and a list of Biologica's taxonomists certified by the Society of Freshwater Science (SFS) are presented in Tables 4 and 5, respectively.

Table 3. Summary of taxonomic QA/QC results for Quinsam Coal Corp (MNP LTD) Quinsam River, 2025.

Client Sample ID	Biologica Sample ID	% Taxonomic Agreement	% Similarity in Enumeration
QWA01	fb25-163-001	100.00%	100.00%

QRD02B	fb25-163-005	100.00%	100.00%
7SQR03B	fb25-163-009	99.69%	98.77%
	Average:	99.90%	99.59%

% Identification Agreement:

$$100 - [(\# \text{ of disagreements} / \text{total abundance of QA sample}) \times 100]$$

**differences in resolution are not considered disagreements*

% Enumeration Agreement:

$$100 - [(\text{difference in abundance between samples} / \text{total abundance of original sample}) \times 100]$$
Table 4. Standard Taxonomic Effort as required by CABIN protocol.

Group	Taxa	Level of Identification
Insects	Coleoptera	Genus
	Chironomidae	Genus (Note: require slide mounts)
	Diptera	Genus
	Ephemeroptera	Genus
	Heteroptera	Genus
	Lepidoptera	Genus
	Megaloptera	Genus
	Odonata	Genus
	Plecoptera	Genus
	Trichoptera	Genus
Non Insects	Amphipoda	Family/Genus
	Bryozoa	Phylum
	Bivalvia	Genus
	Cnidaria	Family/Genus
	Collembola	Family/Genus (with caution)
	Decapoda	Family/Genus
	Gastropoda	Genus
	Hirudinea	Family/Genus
	Hydrachnidae	Family/Genus
	Isopoda	Family/Genus
	Clitellata (Oligochaeta)	Family/Genus
	Polychaeta	Family/Genus
	Platyhelminthes	Class
Excluded Taxa	Cladocera	Taxa are not generally benthic and, in some cases, may bias samples collected in close proximity to reservoirs or lakes.
	Copepoda	Some taxa are small and not adequately sampled using a 400 µm kicknet. Can be found in extremely high numbers and may bias a sample.
	Ostracoda	Taxa can be found in high numbers and may bias a sample.

Group	Taxa	Level of Identification
	Rotifera	Taxa are not generally benthic and, in some cases, may bias samples collected in close proximity to reservoirs or lakes.
	Nematoda	Taxa are not adequately sampled using a 400 µm kicknet.
	Non-aquatic taxa	Terrestrial drop-ins such as earth worms, spiders, some beetles, and bugs are not part of the aquatic benthic community.
	Porifera	Taxa are colonial and cannot be quantified as number of individuals per sample like other benthic taxa.

Table 5. Taxonomists certified by the Society of Freshwater Science (SFS).

Taxonomist	Certification	Certification Expiry
Robynnn Holma	North American Chironomidae	2028
	Western Arthropods	2030
	Western EPT	2030
	Eastern EPT	2028
	Eastern Arthropods	2030
Karen Hoban	Western EPT	2028
	Western Arthropods	2030
	Eastern EPT	2030
	Eastern Arthropods	2030
Stephen Srayko	North American Chironomidae	2029
	Western Arthropods	2029
	Eastern EPT	2028
Sam Coe	Western EPT	2030
Breanna Bomback	North American Chironomidae	2030
Hiroki Tomoe	North American Oligochaeta	2028
Gilbert Martin-Damman	North American Oligochaeta	2030

Data

All data were recorded in Biologica's custom database. Results were uploaded to the CABIN database and provided to the Quinsam Coal Corp (MNP LTD) project manager in Excel spreadsheets via email.

Methodological and Taxonomic References

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Attachment E Habitat Characteristics, 2025

Attachment C Quinsam River Sampling Station Habitat Variables

Station	Sampling Date	Latitude	Longitude	Altitude	Stream Order	BG-Volcanic (%)	CH-Depth-Avg (cm)	CH-Depth-Bankfull Minus Wetted (cm)	CH-Depth-Max (cm)	CH-Macrophyte (PercentRange)	CH-Reach-%CanopyCoverage (PercentRange)	CH-Reach-DomStreamsVeg (Category1-4)	CH-Reach-Pools (Binary)	CH-Reach-Rapids (Binary)
WA	September 14, 2016	49.923901	-125.510513	297	4	62.41	33.7	53.0	42.0	0	4	2	1	1
WA	September 7, 2021	49.930053	-125.510574	297	4	62.41	33.7	98.0	65.0	0	3	2	0	1
WA	August 27, 2025	49.929528	-125.511056	302	4	62.41	25.2	66.5	31.0	0	3	2	0	0
QRU-01	September 17, 2025	49.936151	-125.463705	254	4	49.56	35.2	5.3	39.0	0	1	2	0	1
QRD-01	September 16, 2025	49.939271	-125.462587	230	4	49.48	3.7	50.0	6.3	0	1	2	0	1
QRD-02	September 15, 2016	49.941631	-125.460419	216	4	49.24	34.2	62.0	48.0	0	2	2		
QRD-02	September 9, 2021	49.941349	-125.459947	216	4	49.24	34.2	49.0	44.0	0	1	2	0	1
QRD-02	September 10, 2025	49.941349	-125.459947	216	4	49.24	30.1	46.2	45.0	0	1	2	1	1
QRD-03	September 14, 2021	49.94628	-125.454801	205	4	49.05	36.5	94.0	93.0	0	1	2	1	1
QRD-03	September 9, 2025	49.946167	-125.455111	212	4	49.05	64.2	0.9	91.0	0	1	2	1	1
7SQR03A	September 8, 2025	49.939003	-125.42119	215	4	45.43	35.7	36.0	57.0	0	1	2	0	0
7SQ03	September 16, 2016	49.939487	-125.41703	197	4	45.53	60.2	49.0	80.0	1	2	2	0	0
7SQ03	September 15, 2021	49.939484	-125.416997	197	4	45.53	40.9	75.0	66.0	0	1	2	1	0
7SQ03	September 3, 2025	49.939484	-125.416997	197	4	45.53	37.9	54.0	57.5	0	1	2	1	0
7SQR03B	September 18, 2025	49.947299	-125.394859	168	4	45.35	31.00	72.4	41.0	0	0	2	0	0

Attachment C Quinsam River Sampl

Station	Sampling Date	CH-Reach-Riffles (Binary)	CH-Reach-StraightRun (Binary)	CH-Slope (m/m)	CH-Veg-Coniferous (Binary)	CH-Veg-Deciduous (Binary)	CH-Veg-Grasses Ferns (Binary)	CH-Veg-Shrubs (Binary)	CH-Velocity-Avg (m/s)	CH-Velocity-Max (m/s)	CH-Width-Bankfull (m)	CH-Width-Wetted (m)	CH-XSEC-VelInstrumentDirect (Category(1-3))	CH-XSEC-VelMethod (Category(1-3))	CL-DegreeDays (Days)
WA	September 14, 2016	1	1	1.13	1	1	1	1	0.62	0.9	11.7	11.3	3	3	1117.61
WA	September 7, 2021	1	1	1.13	1	1	1	1	0.41	0.77	12.7	10.8			1117.61
WA	August 27, 2025	1	1	1.13	1	1	1	1	0.71	1.08	11.1	9.4			1117.61
QRU-01	September 17, 2025	1	0	1.03	1	1	1	1	0.32	0.66	14.3	11.0			1205.47
QRD-01	September 16, 2025	1	1	1.03	1	1	0	1	0.54	1.4	14.3	11.4			1205.47
QRD-02	September 15, 2016	1	1	1.03	1	1	1	1	0.64	1.0	18.7	13.9	3	3	1208.48
QRD-02	September 9, 2021	1	1	1.03	1	1	1	1	0.4	0.46	16.1	13.2			1208.48
QRD-02	September 10, 2025	1	1	1.03	1	1	1	1	0.42	0.7	15.9	15.2			1208.48
QRD-03	September 14, 2021	1	1	1	1	1	1	1	0.73	1.25	16.6	12.8	3	3	1208.48
QRD-03	September 9, 2025	1	1	1.03	1	1	1	1	0.53	0.64	18.0	6.8			1208.48
7SQR03A	September 8, 2025	0	1	0.8	1	1	1	1	0.33	0.89	16.9	15.5			1248.90
7SQ03	September 16, 2016	1	1	0.8	1	1	1	1	0.18	0.3	25.4	14.4	3	3	1251.16
7SQ03	September 15, 2021	1	1	0.8	1	1	1	1	0.24	0.54	20.5	17.1	3	3	1251.16
7SQ03	September 3, 2025	1	1	0.8	1	1	1	1	0.16	0.28	21.5	19.9			1251.16
7SQR03B	September 18, 2025	1	1	0.8	1	1	1	1	0.13	0.24	18.9	12.4			1236.51

Attachment C Quinsam River Sampl

Station	Sampling Date	CL- Precip08. A UG (mm)	HY-Stream Length (m)	SU-%Bedrock (%)	SU-%Boulder (%)	SU-%Cobble (%)	SU-%Gravel (%)	SU-%Pebble (%)	SU-%Sand (%)	SU- %Silt+Clay (%)	SU-D50 (cm)	SU-Dg (cm)	SU-Dominant- 1st (Category (0-9))	SU-Dominant- 2nd (Category (0-9))	SU- Embeddedness (Category (1-5))
WA	September 14, 2016	63.00	108750	0	3	53	11	33	0	0	7.25	6.2	6	5	4
WA	September 7, 2021	63.00	108750	0	1	22	12	65	0	0	3.8	3.8	5	4	4
WA	August 27, 2025	63.00	108750	0	3	69	3	25	0	0	10.3	8.5	6	7	4
QRU-01	September 17, 2025	60.88	151422	0	8	61	4	27	0	0	11.55	9.1	7	6	4
QRD-01	September 16, 2025	60.80	151997	1	13	55	6	25	0	0	10.6	9	7	6	4
QRD-02	September 15, 2016	60.80	152355	0	2	54	10	26	0	0	7	5.7	7	6	4
QRD-02	September 9, 2021	60.80	152355	0	0	40	11	49	0	0	4.6	4.7	6	5	4
QRD-02	September 10, 2025	60.80	152355	0	40	54	1	5	0	0	19.8	20.6	8	7	pec
QRD-03	September 14, 2021	60.80	153098	0	0	17	17	66	0	0	3.3	3.1	5	4	4
QRD-03	September 9, 2025	60.80	153098	0	3	47	6	43	1	0	6.4	6	6	5	4
75QR03A	September 8, 2025	59.89	172697	0	2	82	0	16	0	0	8.7	9.4	6	7	4
75Q03	September 16, 2016	59.83	172697	0	35	51	3	11	0	0	17	15.7	8	7	4
75Q03	September 15, 2021	59.83	172697	0	0	6	11	83	0	0	2.8	2.8	4	5	4
75Q03	September 3, 2025	59.83	172697	0	0	60	4	28	0	8	7.5	4.5	6	7	5
75QR03B	September 18, 2025	59.56	263381	0	0	46	3	51	0	0	6.2	5.9	5	6	4

Attachment C Quinsam River Sampl

Station	Sampling Date	SU-Periphyton Coverage (Category (1-5))	SU-arterial SurroundingM (Category(0-9))	TO-Elevation Max (m)	TO-Elevation Min (m)	WT-General-Conductivity (µS/cm)	WT-General-DO (mg/L)	WT-General-pH (pH)	WT-General-SpCond (µS/cm)	WT-General-TempAir (Degrees Celsius)	WT-General-TempWater (Degrees Celsius)
WA	September 14, 2016	1	6	1752	293	47.9	7.09	7.5	47.9	15	16.2
WA	September 7, 2021	3	5	1752	293		937	7.3	55.3	19.2	17.496
WA	August 27, 2025	3	3	1752	293		8.95	7.2		25	20.7
QRU-01	September 17, 2025	3	3	1752	233	174.4	7.54	7.6		17.8	18.5
QRD-01	September 16, 2025	4	3	1752	223	181.4	7.90	7.7		18.5	18.8
QRD-02	September 15, 2016	1	6	1752	216	145.6	7.82	7.8	145.6	18	17.4
QRD-02	September 9, 2021	2	5	1752	216		9.23	7.8	217.9	17.7	18.5
QRD-02	September 10, 2025	4	6	1752	216	119.9	7.62	7.7		17.4	19.4
QRD-03	September 14, 2021	2	5	1752	203		9.25	7.7	205.9	13.5	17.2
QRD-03	September 9, 2025	1	1	1752	203	121.4	7.00	7.2		20	19.6
7SQR03A	September 8, 2025	5	2	1752	195	119.8	7.08	7.0		19	19.7
7SQ03	September 16, 2016	2	8	1752	195	1355	7.83	7.3	1355	18	14.9
7SQ03	September 15, 2021	2		1752	195		9.18	7.3	202.7	9.1	15.4
7SQ03	September 3, 2025	3	1	1752	195	192.1	8.48	7.1		24	20.1
7SQR03B	September 18, 2025	5	2	1752	186	179	8.17	7.4		14	15.7

Attachment F

Benthic Invertebrate Taxonomy Report, Biological 2025

INCO	Arthropoda	Insecta	Coleoptera	Elmidae	Zaltzevia sp.	5	23	38	5	18	171		240
INCO	Arthropoda	Insecta	Coleoptera	Elmidae	Elmidae indet.	11	8	38	63	91	143		
INCO	Arthropoda	Insecta	Coleoptera		Coleoptera indet.	5			21	9	14		
INDI	Arthropoda	Insecta	Diptera	Ceratopogonidae	Ceratopogoninae indet.						29	3	20
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Cryptochironomus sp.								20
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Microtendipes sp.						43		
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Pagastella sp.							1	20
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Phaenopsectra sp.							1	20
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Polypedilum sp.	84	8	13	5	18	257	4	340
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Robackia sp.								40
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Ciadotanytarsus sp.						14		200
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Microspectra/Tanytarsus sp. Comp	21	8	38	11	18	229	30	180
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Rheotanytarsus sp.	42	8		5	36	400	1	
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Chironominae indet.		8	25				1	160
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Pothastia sp.	5							
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Corynoneura sp.		8		47	18		1	
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Cricotopus/Orthocladius sp. Comp	16						1	60
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Eukiefferiella sp.	63	23	100					40
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Metriocnemus sp.							1	
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Orthocladiinae indet.	11				9			80
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Parametrioctenemus sp.	11					86		
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Psectrocladius sp.							10	40
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Rheocricotopus sp.	11		13			114		20
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Thienemanniella sp.			50					80
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Tvetenia sp.					9			
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Tanytarsus indet.							2	
INDI	Arthropoda	Insecta	Diptera	Chironomidae	Chironomidae indet.	5	23		11	18	43	4	40
INDI	Arthropoda	Insecta	Diptera	Empididae	Hemerodromia sp.	21	62	13	21	73	43		120
INDI	Arthropoda	Insecta	Diptera	Empididae	Neoplasia sp.	11							
INDI	Arthropoda	Insecta	Diptera	Empididae	Empididae indet.			13					
INDI	Arthropoda	Insecta	Diptera	Psychodidae	Marina sp.		8	50					
INDI	Arthropoda	Insecta	Diptera	Simuliidae	Simulium sp.	26				9			
INDI	Arthropoda	Insecta	Diptera	Simuliidae	Simuliidae indet.	563	200	1,825		136	257		100
INDI	Arthropoda	Insecta	Diptera	Tabanidae	Tabanidae indet.							4	
INDI	Arthropoda	Insecta	Diptera	Tipulidae	Cryptolabis sp.		31		42	355			40
INDI	Arthropoda	Insecta	Diptera	Tipulidae	Antocha sp.	5							
INDI	Arthropoda	Insecta	Diptera	Tipulidae	Tipulidae indet.	5	8		5	18		1	
INDI	Arthropoda	Insecta	Diptera	Tipulidae	Diptera indet.	16		25	5	9	29		20
INEP	Arthropoda	Insecta	Ephemeroptera	Ameletidae	Ameletus sp.				5				
INEP	Arthropoda	Insecta	Ephemeroptera	Baetidae	Acentrella sp.	16							180
INEP	Arthropoda	Insecta	Ephemeroptera	Baetidae	Baetidae indet.	116	1,177	1,113	621	773	429	31	180
INEP	Arthropoda	Insecta	Ephemeroptera	Baetidae	Baetis sp.	63	177	138	126	264	57		160
INEP	Arthropoda	Insecta	Ephemeroptera	Baetidae	Centropilum sp.							14	
INEP	Arthropoda	Insecta	Ephemeroptera	Baetidae	Dipheter hageni			13	63	73	14		
INEP	Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	Ephemerellidae indet.		15	38	21	9		4	

INEP	Arthropoda	Insecta	Ephemeroptera	Heptageniidae	Heptageniidae indet.	16	62	125	42	318	229	5	760
INEP	Arthropoda	Insecta	Ephemeroptera	Heptageniidae	Ironodes sp.	5	54	75		55			
INEP	Arthropoda	Insecta	Ephemeroptera	Heptageniidae	Rhithrogena sp.		8		26	27			100
INEP	Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	Neoleptophlebia sp.			13	68	27	14		40
INEP	Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	Paraleptophlebia sp.						14	48	20
INEP	Arthropoda	Insecta	Ephemeroptera	Ephemeroptera	Ephemeroptera indet.	16	115		111	100	114	58	80
INLE	Arthropoda	Insecta	Lepidoptera	Crambidae	Crambidae indet.	5							
INMG	Arthropoda	Insecta	Megaloptera	Sialidae	Sialis sp.							8	
INOD	Arthropoda	Insecta	Odonata		Odonata indet.							1	
INPL	Arthropoda	Insecta	Plecoptera	Chloroperlidae	Sweltsa sp.		46	13	11	91			20
INPL	Arthropoda	Insecta	Plecoptera	Chloroperlidae	Chloroperlidae indet.	5			95	227	14		
INPL	Arthropoda	Insecta	Plecoptera	Nemouridae	Amphimemura sp.			13					
INPL	Arthropoda	Insecta	Plecoptera	Nemouridae	Zapada cinctipes		23	50	21	36	43	8	140
INPL	Arthropoda	Insecta	Plecoptera	Nemouridae	Zapada sp.					18	14		
INPL	Arthropoda	Insecta	Plecoptera	Nemouridae	Nemouridae indet.			13		9	57	2	
INPL	Arthropoda	Insecta	Plecoptera	Perlidae	Calineuria sp.					9			
INPL	Arthropoda	Insecta	Plecoptera	Perlidae	Skwala sp.								60
INPL	Arthropoda	Insecta	Plecoptera	Perlidae	Perlidae indet.		23	25	32	73	29		40
INPL	Arthropoda	Insecta	Plecoptera	Plecoptera	Plecoptera indet.	5	8				29	5	
INTR	Arthropoda	Insecta	Trichoptera	Glossosomatidae	Glossosoma sp.						29		280
INTR	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche sp.						286		
INTR	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Hydropsyche sp.	21	38	38		18	43		260
INTR	Arthropoda	Insecta	Trichoptera	Hydropsychidae	Hydropsychidae indet.		8	38			143		
INTR	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Hydroptila sp.							3	140
INTR	Arthropoda	Insecta	Trichoptera	Hydroptilidae	Oxyethira sp.								
INTR	Arthropoda	Insecta	Trichoptera	Lepidostomatidae	Lepidostoma sp.	11	8	13	16				
INTR	Arthropoda	Insecta	Trichoptera	Philopotamidae	Wormaldia sp.	5		25		27	71		60
INTR	Arthropoda	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila sp.			13	5	9			
INTR	Arthropoda	Insecta	Trichoptera	Trichoptera	Trichoptera indet.	5	15	13			100		
MOBI	Mollusca	Bivalvia	Sphaeriidae	Sphaeriidae	Pisidiidae indet.		23		21	9		3	
MOBI	Mollusca	Bivalvia	Unionida	Unionidae	Anodonta sp.						14		
MOGA	Mollusca	Gastropoda	Lymnaeidae	Planorbidae	Ferussia sp.							1	
MOGA	Mollusca	Gastropoda	Lymnaeidae	Planorbidae	Planorbidae indet.	11	15	25					
MOGA	Mollusca	Gastropoda	Lymnaeidae	Gastropoda	Gastropoda indet.	5							
NTEA	Nemertea	Neonemertea	Monostilifera	Tetrastemmatidae	Prostoma sp.	5	23						180
Total Abundance						1,689	2,523	4,163	1,768	3,355	4,800	461	6,480
Total Unique Taxa (species richness)						33	29	29	30	30	38	39	40

Notes:

Incidental taxa/fragments not included in data, or whose abundance is not generally captured accurately by 1.0mm screen.

Total Number of Taxa = Number of unique taxa (= species richness), not including higher-order taxa for which there exists a lower-order identification.

Total Number of Organisms = Total abundance, not including incidental taxa

sp. = species, indet. = indeterminate

