



CERTIFICATE OF ANALYSIS

Work Order	: VA25B6932		
Client	: Squamish-Lillooet Reg. District	Laboratory	: ALS Environmental - Vancouver
Contact	: Edward Witwicki	Account Manager	: Kevin Bhikadia
Address	: Box 219 - 1350 Aster Street Pemberton British Columbia Canada V0N 2L0	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
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Project	: ----	Telephone	: +1 604 253 4188
PO	: ----	Date Samples Received	: 10-Jul-2025 12:50
C-O-C number	: 23-1143200	Date Analysis Commenced	: 11-Jul-2025
Sampler	: ----	Issue Date	: 17-Jul-2025 22:09
Site	: ----		
Quote number	: Standing Offer		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert		Metals, Burnaby, British Columbia
Ilnaz Badbezanchi		Metals, Burnaby, British Columbia
Jaewook Lee		Metals, Burnaby, British Columbia
Leon Yang		Inorganics, Burnaby, British Columbia
Owen Cheng		Metals, Burnaby, British Columbia



General Comments

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

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

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

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

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

<i>Unit</i>	<i>Description</i>
-	no units
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

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

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

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

Sample Comments

<i>Sample</i>	<i>Client Id</i>	<i>Comment</i>
VA25B6932-001	D'Arcy	Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low.



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	D'Arcy	----	----	----	----
					Client sampling date / time	09-Jul-2025 12:03	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B6932-001	----	----	----	----	----
					Result	----	----	----	----	----
Physical Tests										
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	106	----	----	----	----	----
Colour, true	----	E329/VA	5.0	CU	<5.0	----	----	----	----	----
Conductivity	----	E100/VA	2.0	µS/cm	229	----	----	----	----	----
pH	----	E108/VA	0.10	pH units	8.26	----	----	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	166	----	----	----	----	----
Turbidity	----	E121/VA	0.10	NTU	4.10	----	----	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	119	----	----	----	----	----
Anions and Nutrients										
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L	<0.050	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L	3.49	----	----	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.051	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L	0.138	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L	<0.0010	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	14.5	----	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0100	mg/L	<0.0100	----	----	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00207	----	----	----	----	----
Barium, total	7440-39-3	E420/VA	0.0200	mg/L	0.0326	----	----	----	----	----
Boron, total	7440-42-8	E420/VA	0.100	mg/L	<0.100	----	----	----	----	----
Cadmium, total	7440-43-9	E420/VA	0.000200	mg/L	<0.000200	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	D'Arcy	----	----	----	----
					Client sampling date / time	09-Jul-2025 12:03	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B6932-001	----	----	----	----	----
					Result	----	----	----	----	----
Total Metals										
Calcium, total	7440-70-2	E420/VA	0.100	mg/L	33.4	----	----	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00200	mg/L	<0.00200	----	----	----	----	----
Copper, total	7440-50-8	E420/VA	0.00100	mg/L	0.00285	----	----	----	----	----
Iron, total	7439-89-6	E420/VA	0.030	mg/L	0.151	----	----	----	----	----
Lead, total	7439-92-1	E420/VA	0.000500	mg/L	0.000948	----	----	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.100	mg/L	8.75	----	----	----	----	----
Manganese, total	7439-96-5	E420/VA	0.00200	mg/L	<0.00200	----	----	----	----	----
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	----	----	----	----	----
Potassium, total	7440-09-7	E420/VA	0.100	mg/L	1.33	----	----	----	----	----
Selenium, total	7782-49-2	E420/VA	0.00100	mg/L	<0.00100	----	----	----	----	----
Sodium, total	7440-23-5	E420/VA	2.00	mg/L	4.04	----	----	----	----	----
Uranium, total	7440-61-1	E420/VA	0.000100	mg/L	0.000233	----	----	----	----	----
Zinc, total	7440-66-6	E420/VA	0.0500	mg/L	<0.0500	----	----	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L	<0.0010	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00122	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.0335	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/VA	0.000020	mg/L	<0.000020	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/VA	0.000050	mg/L	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/VA	0.010	mg/L	0.011	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	D'Arcy	----	----	----	----
					Client sampling date / time	09-Jul-2025 12:03	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B6932-001	----	----	----	----	----
					Result	----	----	----	----	----
Dissolved Metals										
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000050	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	33.5	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00200	----	----	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	<0.010	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	<0.000050	----	----	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	0.0015	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	8.96	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00026	----	----	----	----	----
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L	<0.0000050	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L	0.000747	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	1.46	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	<0.00020	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	0.000385	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	5.04	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L	3.78	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	D'Arcy	----	----	----	----
					Client sampling date / time	09-Jul-2025 12:03	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B6932-001	----	----	----	----	----
					Result	----	----	----	----	----
Dissolved Metals										
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.188	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	5.31	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/VA	0.00020	mg/L	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/VA	0.00030	mg/L	<0.00030	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000219	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	<0.0010	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/VA	0.00030	mg/L	<0.00030	----	----	----	----	----
Dissolved mercury filtration location	----	EP509/VA	-	-	Laboratory	----	----	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-	Laboratory	----	----	----	----	----

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



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA25B6932</p> <p>Client : Squamish-Lillooet Reg. District</p> <p>Contact : Edward Witwicki</p> <p>Address : Box 219 - 1350 Aster Street Pemberton BC Canada V0N 2L0</p> <p>Telephone : 604 894 6371</p> <p>Project : ----</p> <p>PO : ----</p> <p>C-O-C number : 23-1143200</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Standing Offer</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 9</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 10-Jul-2025 12:50</p> <p>Issue Date : 17-Jul-2025 22:08</p>
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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Bromide in Water by IC (Low Level)											
HDPE D'Arcy	E235.Br-L	09-Jul-2025	12-Jul-2025	28 days	3 days	✓	12-Jul-2025	28 days	3 days	✓	
Anions and Nutrients : Chloride in Water by IC											
HDPE D'Arcy	E235.Cl	09-Jul-2025	12-Jul-2025	28 days	3 days	✓	12-Jul-2025	28 days	3 days	✓	
Anions and Nutrients : Fluoride in Water by IC											
HDPE D'Arcy	E235.F	09-Jul-2025	12-Jul-2025	28 days	3 days	✓	12-Jul-2025	28 days	3 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE D'Arcy	E235.NO3-L	09-Jul-2025	12-Jul-2025	3 days	3 days	✓	12-Jul-2025	3 days	3 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE D'Arcy	E235.NO2-L	09-Jul-2025	12-Jul-2025	3 days	3 days	✓	12-Jul-2025	3 days	3 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE D'Arcy	E235.SO4	09-Jul-2025	12-Jul-2025	28 days	3 days	✓	12-Jul-2025	28 days	3 days	✓	
Dissolved Metals : Dissolved Mercury in Water by CVAAS											
HDPE - dissolved (lab preserved) D'Arcy	E509	09-Jul-2025	17-Jul-2025	0 hrs	182 hrs	* UCP	17-Jul-2025	0 hrs	182 hrs	* UCP	



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) D'Arcy	E421	09-Jul-2025	11-Jul-2025	180 days	2 days	✓	12-Jul-2025	180 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE D'Arcy	E290	09-Jul-2025	12-Jul-2025	14 days	3 days	✓	12-Jul-2025	14 days	3 days	✓
Physical Tests : Colour (True) by Spectrometer (5 CU)										
HDPE D'Arcy	E329	09-Jul-2025	12-Jul-2025	3 days	3 days	✓	12-Jul-2025	3 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE D'Arcy	E100	09-Jul-2025	12-Jul-2025	28 days	3 days	✓	12-Jul-2025	28 days	3 days	✓
Physical Tests : pH by Meter										
HDPE D'Arcy	E108	09-Jul-2025	12-Jul-2025	0.25 hrs	66 hrs	* EHTR-FM	12-Jul-2025	0.25 hrs	66 hrs	* EHTR-FM
Physical Tests : TDS by Gravimetry										
HDPE D'Arcy	E162	09-Jul-2025	----	----	----		16-Jul-2025	7 days	7 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE D'Arcy	E121	09-Jul-2025	----	----	----		12-Jul-2025	3 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) D'Arcy	E508	09-Jul-2025	15-Jul-2025	28 days	6 days	✓	15-Jul-2025	28 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) D'Arcy	E420	09-Jul-2025	15-Jul-2025	180 days	6 days	✓	16-Jul-2025	180 days	6 days	✓

[Legend & Qualifier Definitions](#)

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Work Order : VA25B6932
Client : Squamish-Lillooet Reg. District
Project : ---



EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended
Rec. HT: ALS recommended hold time (see units).

UCP: Unsuitable Container and/or Preservative used (invalidates standard hold time). Maximum hold time of zero applied. Test results may be biased low / unreliable, and may not meet regulatory requirements.



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	2103194	1	19	5.2	5.0	✔
pH by Meter	E108	2103192	1	19	5.2	5.0	✔
Turbidity by Nephelometry	E121	2103557	1	20	5.0	5.0	✔
TDS by Gravimetry	E162	2110304	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	2103198	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	2103197	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	2103196	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	2103200	1	19	5.2	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	2103199	1	17	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2103201	1	19	5.2	5.0	✔
Alkalinity Species by Titration	E290	2103193	1	18	5.5	5.0	✔
Colour (True) by Spectrometer (5 CU)	E329	2103205	1	3	33.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2102616	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2102722	1	6	16.6	5.0	✔
Total Mercury in Water by CVAAS	E508	2108238	1	19	5.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2110753	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2103194	1	19	5.2	5.0	✔
pH by Meter	E108	2103192	1	19	5.2	5.0	✔
Turbidity by Nephelometry	E121	2103557	1	20	5.0	5.0	✔
TDS by Gravimetry	E162	2110304	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	2103198	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	2103197	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	2103196	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	2103200	1	19	5.2	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	2103199	1	17	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2103201	1	19	5.2	5.0	✔
Alkalinity Species by Titration	E290	2103193	1	18	5.5	5.0	✔
Colour (True) by Spectrometer (5 CU)	E329	2103205	1	3	33.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2102616	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2102722	1	6	16.6	5.0	✔
Total Mercury in Water by CVAAS	E508	2108238	1	19	5.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2110753	1	20	5.0	5.0	✔
Method Blanks (MB)							
Conductivity in Water	E100	2103194	1	19	5.2	5.0	✔



Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
<i>Analytical Methods</i>							
Method Blanks (MB) - Continued							
Turbidity by Nephelometry	E121	2103557	1	20	5.0	5.0	✔
TDS by Gravimetry	E162	2110304	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	2103198	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	2103197	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	2103196	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	2103200	1	19	5.2	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	2103199	1	17	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2103201	1	19	5.2	5.0	✔
Alkalinity Species by Titration	E290	2103193	1	18	5.5	5.0	✔
Colour (True) by Spectrometer (5 CU)	E329	2103205	1	3	33.3	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2102616	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2102722	1	6	16.6	5.0	✔
Total Mercury in Water by CVAAS	E508	2108238	1	19	5.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2110753	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Bromide in Water by IC (Low Level)	E235.Br-L	2103198	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	2103197	1	19	5.2	5.0	✔
Fluoride in Water by IC	E235.F	2103196	1	19	5.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	2103200	1	19	5.2	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	2103199	1	17	5.8	5.0	✔
Sulfate in Water by IC	E235.SO4	2103201	1	19	5.2	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2102616	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2102722	1	6	16.6	5.0	✔
Total Mercury in Water by CVAAS	E508	2108238	1	19	5.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	2110753	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 ALS Environmental - Vancouver	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Vancouver	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Turbidity by Nephelometry	E121 ALS Environmental - Vancouver	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
TDS by Gravimetry	E162 ALS Environmental - Vancouver	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight, with gravimetric measurement of the residue.
Bromide in Water by IC (Low Level)	E235.Br-L ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Chloride in Water by IC	E235.Cl ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC (Low Level)	E235.NO2-L ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC (Low Level)	E235.NO3-L ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Alkalinity Species by Titration	E290 ALS Environmental - Vancouver	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.
Colour (True) by Spectrometer (5 CU)	E329 ALS Environmental - Vancouver	Water	APHA 2120 C (mod)	Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Vancouver	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Vancouver	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Vancouver	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
Dissolved Mercury in Water by CVAAS	E509 ALS Environmental - Vancouver	Water	APHA 3030B/EPA 1631E (mod)	Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

QUALITY CONTROL REPORT

<p>Work Order : VA25B6932</p> <p>Client : Squamish-Lillooet Reg. District</p> <p>Contact : Edward Witwicki</p> <p>Address : Box 219 - 1350 Aster Street Pemberton BC Canada V0N 2L0</p> <p>Telephone : 604 894 6371</p> <p>Project : ----</p> <p>PO : ----</p> <p>C-O-C number : 23-1143200</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Standing Offer</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 14</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Kevin Bhikadia</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 10-Jul-2025 12:50</p> <p>Date Analysis Commenced : 11-Jul-2025</p> <p>Issue Date : 17-Jul-2025 22:08</p>
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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Ilnaz Badbezanchi	Supervisor - Metals Prep	Vancouver Metals, Burnaby, British Columbia
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Page : 2 of 14
Work Order : VA25B6932
Client : Squamish-Lillooet Reg. District
Project : ----



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2103192)											
VA25B6801-001	Anonymous	pH	----	E108	0.10	pH units	8.40	8.41	0.119%	4%	----
Physical Tests (QC Lot: 2103193)											
VA25B6801-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	118	117	0.769%	20%	----
Physical Tests (QC Lot: 2103194)											
VA25B6801-001	Anonymous	Conductivity	----	E100	2.0	µS/cm	209	208	0.480%	10%	----
Physical Tests (QC Lot: 2103205)											
VA25B6801-001	Anonymous	Colour, true	----	E329	5.0	CU	34.0	36.6	2.6	Diff <2x LOR	----
Physical Tests (QC Lot: 2103557)											
FJ2502094-001	Anonymous	Turbidity	----	E121	0.10	NTU	7.38	7.28	1.50%	15%	----
Physical Tests (QC Lot: 2110304)											
KS2502734-005	Anonymous	Solids, total dissolved [TDS]	----	E162	13	mg/L	70	65	5	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103196)											
VA25B6743-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.027	0.026	0.0006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103197)											
VA25B6743-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103198)											
VA25B6743-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103199)											
VA25B6743-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0285	0.0284	0.00009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103200)											
VA25B6743-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2103201)											
VA25B6743-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	9.96	9.91	0.557%	20%	----
Total Metals (QC Lot: 2102616)											
VA25B6632-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	1.07	1.10	2.87%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00019	0.00018	0.000004	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00082	0.00075	0.00007	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0986	0.0994	0.794%	20%	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.057	0.057	0.0005	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000588	0.0000637	8.09%	20%	----



Sub-Matrix: **Water**

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 2102616) - continued											
VA25B6632-001	Anonymous	Calcium, total	7440-70-2	E420	0.050	mg/L	124	127	2.31%	20%	---
		Chromium, total	7440-47-3	E420	0.00050	mg/L	0.00086	0.00093	0.00007	Diff <2x LOR	---
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00312	0.00317	0.00004	Diff <2x LOR	---
		Iron, total	7439-89-6	E420	0.010	mg/L	1.90	2.04	7.48%	20%	---
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.000510	0.000504	1.04%	20%	---
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	56.8	56.2	1.14%	20%	---
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.284	0.283	0.384%	20%	---
		Potassium, total	7440-09-7	E420	0.050	mg/L	5.05	4.88	3.54%	20%	---
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000252	0.000287	0.000036	Diff <2x LOR	---
		Sodium, total	7440-23-5	E420	0.050	mg/L	54.8	55.4	1.18%	20%	---
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.0215	0.0217	1.16%	20%	---
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0072	0.0072	0.00003	Diff <2x LOR	---
Total Metals (QC Lot: 2108238)											
VA25B6919-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000065	0.0000059	0.0000006	Diff <2x LOR	---
Dissolved Metals (QC Lot: 2102722)											
YL2500538-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0043	0.0042	0.00008	Diff <2x LOR	---
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00035	0.00033	0.00001	Diff <2x LOR	---
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.176	0.174	1.24%	20%	---
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	---
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.936	0.913	2.50%	20%	---
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000944	0.000102	7.65%	20%	---
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	179	179	0.139%	20%	---
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000039	0.000040	0.0000006	Diff <2x LOR	---
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.00186	0.00190	2.26%	20%	---
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00088	0.00086	0.00002	Diff <2x LOR	---
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.039	0.039	0.0006	Diff <2x LOR	---
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0133	0.0137	2.71%	20%	---
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	52.1	52.2	0.246%	20%	---
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.580	0.589	1.55%	20%	---
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00487	0.00466	4.48%	20%	---



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 2102722) - continued											
YL2500538-001	Anonymous	Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.0125	0.0126	0.241%	20%	---
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	---
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	26.6	27.1	1.93%	20%	---
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.0205	0.0207	0.995%	20%	---
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000170	0.000150	0.000020	Diff <2x LOR	---
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	3.79	3.88	2.40%	20%	---
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	92.4	93.0	0.594%	20%	---
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	1.77	1.77	0.267%	20%	---
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	37.7	37.6	0.372%	20%	---
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000053	0.000054	0.000001	Diff <2x LOR	---
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	---
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.00163	0.00162	0.774%	20%	---
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0059	0.0057	0.0002	Diff <2x LOR	---
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	---
Dissolved Metals (QC Lot: 2110753)											
FJ2502104-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	0.0000108	0.0000095	0.0000014	Diff <2x LOR	---



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2103193)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2103194)						
Conductivity	----	E100	1	µS/cm	1.3	----
Physical Tests (QCLot: 2103205)						
Colour, true	----	E329	5	CU	<5.0	----
Physical Tests (QCLot: 2103557)						
Turbidity	----	E121	0.1	NTU	<0.10	----
Physical Tests (QCLot: 2110304)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 2103196)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2103197)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2103198)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 2103199)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 2103200)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 2103201)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Total Metals (QCLot: 2102616)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2102616) - continued						
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	---
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	---
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	---
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	---
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	---
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	---
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	---
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	---
Total Metals (QCLot: 2108238)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	---
Dissolved Metals (QCLot: 2102722)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	---
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	---
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	---
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	---
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	---
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	---
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	---
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	---
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	---
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	---
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	---
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	---
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	---
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	---
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	---
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	---
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	---
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	---
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	---
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	---
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	---
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	---
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	---
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	---



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2102722) - continued						
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	---
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	---
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	---
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	---
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	---
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	---
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	---
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	---
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	---
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	---
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	---
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	---
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	---
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	---
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	---
Dissolved Metals (QCLot: 2110753)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	---



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2103192)									
pH	---	E108	---	pH units	7 pH units	100	98.0	102	---
Physical Tests (QCLot: 2103193)									
Alkalinity, total (as CaCO3)	---	E290	1	mg/L	500 mg/L	104	85.0	115	---
Physical Tests (QCLot: 2103194)									
Conductivity	---	E100	1	µS/cm	147 µS/cm	95.8	90.0	110	---
Physical Tests (QCLot: 2103205)									
Colour, true	---	E329	5	CU	100 CU	102	85.0	115	---
Physical Tests (QCLot: 2103557)									
Turbidity	---	E121	0.1	NTU	200 NTU	102	85.0	115	---
Physical Tests (QCLot: 2110304)									
Solids, total dissolved [TDS]	---	E162	10	mg/L	1000 mg/L	109	85.0	115	---
Anions and Nutrients (QCLot: 2103196)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	94.6	90.0	110	---
Anions and Nutrients (QCLot: 2103197)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.3	90.0	110	---
Anions and Nutrients (QCLot: 2103198)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	95.4	85.0	115	---
Anions and Nutrients (QCLot: 2103199)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	98.7	90.0	110	---
Anions and Nutrients (QCLot: 2103200)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	96.5	90.0	110	---
Anions and Nutrients (QCLot: 2103201)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	99.2	90.0	110	---
Total Metals (QCLot: 2102616)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	105	80.0	120	---
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	110	80.0	120	---
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	108	80.0	120	---
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	99.3	80.0	120	---
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	96.7	80.0	120	---
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	102	80.0	120	---



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2102616) - continued									
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	103	80.0	120	---
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	105	80.0	120	---
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	102	80.0	120	---
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	107	80.0	120	---
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	105	80.0	120	---
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	108	80.0	120	---
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	100	80.0	120	---
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	100	80.0	120	---
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	99.9	80.0	120	---
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	108	80.0	120	---
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	107	80.0	120	---
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	103	80.0	120	---
Total Metals (QCLot: 2108238)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	90.4	80.0	120	---
Dissolved Metals (QCLot: 2102722)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	98.3	80.0	120	---
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	96.9	80.0	120	---
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	104	80.0	120	---
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	99.0	80.0	120	---
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	95.3	80.0	120	---
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	98.5	80.0	120	---
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	101	80.0	120	---
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	99.2	80.0	120	---
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	96.1	80.0	120	---
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	---
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	102	80.0	120	---
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	99.4	80.0	120	---
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	100	80.0	120	---
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	98.7	80.0	120	---
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	95.1	80.0	120	---
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	115	80.0	120	---
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	103	80.0	120	---
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	102	80.0	120	---
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	94.8	80.0	120	---
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	99.9	80.0	120	---



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2102722) - continued									
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	97.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	103	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	99.6	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.2	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	102	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	91.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	101	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	97.5	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	114	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	96.0	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	96.1	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	90.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	98.6	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.6	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	97.2	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	95.7	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	102	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	98.1	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	97.0	80.0	120	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2103196)										
VA25B6743-002	Anonymous	Fluoride	16984-48-8	E235.F	1.01 mg/L	1 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 2103197)										
VA25B6743-002	Anonymous	Chloride	16887-00-6	E235.Cl	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 2103198)										
VA25B6743-002	Anonymous	Bromide	24959-67-9	E235.Br-L	0.526 mg/L	0.5 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 2103199)										
VA25B6743-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.58 mg/L	2.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 2103200)										
VA25B6743-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.502 mg/L	0.5 mg/L	100	75.0	125	----
Anions and Nutrients (QCLot: 2103201)										
VA25B6743-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	102 mg/L	100 mg/L	102	75.0	125	----
Total Metals (QCLot: 2102616)										
VA25B6632-002	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	----	ND	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0202 mg/L	0.02 mg/L	101	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00389 mg/L	0.004 mg/L	97.2	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0397 mg/L	0.04 mg/L	99.4	70.0	130	----
		Copper, total	7440-50-8	E420	0.0176 mg/L	0.02 mg/L	88.2	70.0	130	----
		Iron, total	7439-89-6	E420	ND mg/L	----	ND	70.0	130	----
		Lead, total	7439-92-1	E420	0.0184 mg/L	0.02 mg/L	92.3	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	ND mg/L	----	ND	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0418 mg/L	0.04 mg/L	105	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
Uranium, total	7440-61-1	E420	ND mg/L	----	ND	70.0	130	----		
Zinc, total	7440-66-6	E420	0.379 mg/L	0.4 mg/L	94.7	70.0	130	----		
Total Metals (QCLot: 2108238)										
VA25B6919-002	Anonymous	Mercury, total	7439-97-6	E508	0.0000862 mg/L	0 mg/L	86.2	70.0	130	----
Dissolved Metals (QCLot: 2102722)										
VA25B6932-001	D'Arcy	Aluminum, dissolved	7429-90-5	E421	0.199 mg/L	0.2 mg/L	99.6	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0197 mg/L	0.02 mg/L	98.7	70.0	130	----



Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2102722) - continued										
VA25B6932-001	D'Arcy	Arsenic, dissolved	7440-38-2	E421	0.0215 mg/L	0.02 mg/L	107	70.0	130	---
		Barium, dissolved	7440-39-3	E421	ND mg/L	---	ND	70.0	130	---
		Beryllium, dissolved	7440-41-7	E421	0.0384 mg/L	0.04 mg/L	96.1	70.0	130	---
		Bismuth, dissolved	7440-69-9	E421	0.00942 mg/L	0.01 mg/L	94.2	70.0	130	---
		Boron, dissolved	7440-42-8	E421	0.093 mg/L	0.1 mg/L	93.2	70.0	130	---
		Cadmium, dissolved	7440-43-9	E421	0.00396 mg/L	0.004 mg/L	99.1	70.0	130	---
		Calcium, dissolved	7440-70-2	E421	ND mg/L	---	ND	70.0	130	---
		Cesium, dissolved	7440-46-2	E421	0.0103 mg/L	0.01 mg/L	103	70.0	130	---
		Chromium, dissolved	7440-47-3	E421	0.0400 mg/L	0.04 mg/L	100	70.0	130	---
		Cobalt, dissolved	7440-48-4	E421	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	---
		Copper, dissolved	7440-50-8	E421	0.0195 mg/L	0.02 mg/L	97.4	70.0	130	---
		Iron, dissolved	7439-89-6	E421	1.97 mg/L	2 mg/L	98.5	70.0	130	---
		Lead, dissolved	7439-92-1	E421	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	---
		Lithium, dissolved	7439-93-2	E421	0.0886 mg/L	0.1 mg/L	88.6	70.0	130	---
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	---	ND	70.0	130	---
		Manganese, dissolved	7439-96-5	E421	0.0206 mg/L	0.02 mg/L	103	70.0	130	---
		Molybdenum, dissolved	7439-98-7	E421	0.0189 mg/L	0.02 mg/L	94.6	70.0	130	---
		Nickel, dissolved	7440-02-0	E421	0.0390 mg/L	0.04 mg/L	97.6	70.0	130	---
		Phosphorus, dissolved	7723-14-0	E421	10.0 mg/L	10 mg/L	100	70.0	130	---
		Potassium, dissolved	7440-09-7	E421	4.06 mg/L	4 mg/L	102	70.0	130	---
		Rubidium, dissolved	7440-17-7	E421	0.0202 mg/L	0.02 mg/L	101	70.0	130	---
		Selenium, dissolved	7782-49-2	E421	0.0415 mg/L	0.04 mg/L	104	70.0	130	---
		Silicon, dissolved	7440-21-3	E421	9.51 mg/L	10 mg/L	95.1	70.0	130	---
		Silver, dissolved	7440-22-4	E421	0.00397 mg/L	0.004 mg/L	99.3	70.0	130	---
		Sodium, dissolved	7440-23-5	E421	ND mg/L	---	ND	70.0	130	---
		Strontium, dissolved	7440-24-6	E421	ND mg/L	---	ND	70.0	130	---
		Sulfur, dissolved	7704-34-9	E421	21.6 mg/L	20 mg/L	108	70.0	130	---
		Tellurium, dissolved	13494-80-9	E421	0.0410 mg/L	0.04 mg/L	102	70.0	130	---
		Thallium, dissolved	7440-28-0	E421	0.00368 mg/L	0.004 mg/L	91.9	70.0	130	---
		Thorium, dissolved	7440-29-1	E421	0.0199 mg/L	0.02 mg/L	99.5	70.0	130	---
		Tin, dissolved	7440-31-5	E421	0.0197 mg/L	0.02 mg/L	98.7	70.0	130	---
		Titanium, dissolved	7440-32-6	E421	0.0400 mg/L	0.04 mg/L	99.9	70.0	130	---
		Tungsten, dissolved	7440-33-7	E421	0.0193 mg/L	0.02 mg/L	96.6	70.0	130	---
		Uranium, dissolved	7440-61-1	E421	0.00384 mg/L	0.004 mg/L	96.0	70.0	130	---
		Vanadium, dissolved	7440-62-2	E421	0.101 mg/L	0.1 mg/L	101	70.0	130	---
		Zinc, dissolved	7440-66-6	E421	0.415 mg/L	0.4 mg/L	104	70.0	130	---
		Zirconium, dissolved	7440-67-7	E421	0.0414 mg/L	0.04 mg/L	103	70.0	130	---
Dissolved Metals (QCLot: 2110753)										
FJ2502104-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.000105 mg/L	0 mg/L	105	70.0	130	---





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Chain of Custody (COC) / Analytical Request Form

COC Number: 23 - 1143200

Canada Toll Free: 1 800 668 9878

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Environmental Division
Vancouver
Work Order Reference
VA25B6932



Telephone : + 1 604 253 4188

Report To: Squamish-Lillooet Regional Dist
Contact: Edward Witwicksi
Phone: 604 699 6041
Street: Aster St. Box 219
City/Province: Pemberton, B.C.
Postal Code: V0N 2L0
Reports / Recipients: Select Report Format: PDF, EXCEL, EDD (DIGITAL)
Turnaround Time (TAT) Requested: Routine [R] if received by 3pm M-F - no surcharges apply
Invoice To: Same as Report To
Invoice Recipients: Select Invoice Distribution: EMAIL, MAIL, FAX
Analysis Req: Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
ALS Lab Work Order #:
ALS Sample #: Sample Identification and/or Coordinates, Date, Time, Sample Type
Drinking Water (DW) Samples:
Notes / Specify Limits for result evaluation by selecting from drop-down below
SAMPLE RECEIPT DETAILS: Cooling Method, Cooler Custody Seals Intact, Sample Custody Seals Intact
SHIPMENT RELEASE: Released by: Edward Witwicksi, Date: July 10, Time: 10:00am
INITIAL SHIPMENT RECEPTION: Received by: JC, Date: July 10, Time: 12:50pm
FINAL SHIPMENT RECEPTION: Received by: JC, Date: July 10, Time: 12:50pm

NUMBER OF CONTAINERS

General Water
Total Merc
Dissolved Merc
Total Metals
Dissolved Metals

SAMPLES ON HOLD
EXTENDED STORAGE REQUIRED
SUSPECTED HAZARD (see notes)

* temp. double checked

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



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Telephone : +1 604 253 4188

Form containing sections: Report To, Reports / Recipients, Turnaround Time (TAT) Requested, Invoice To, Invoice Recipients, Analysis Req., Project Information, Oil and Gas Required Fields, ALS Client Code / QUOTE #, Job / Project #, PO / AFE, LSD, ALS Lab Work Order #, Sample Identification and/or Coordinates, Drinking Water (DW) Samples, Notes / Specify Limits, SAMPLE RECEIPT DETAILS, SHIPMENT RELEASE, INITIAL SHIPMENT RECEPTION, FINAL SHIPMENT RECEPTION.

NUMBER OF CONTAINERS

Table with columns for sample types (General Water, Total Merc, Dissolved Merc, Total Metals, Dissolved Metals) and rows for analysis results. Includes checkboxes for filtered, preserved, or both.

SAMPLES ON HOLD
EXTENDED STORAGE REQUIRED
SUSPECTED HAZARD (see notes)

* temp. double checked

Rcvd 10Jul2025
1250pm

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions.
1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



BC and YUKON Drinking Water Declaration Form

In British Columbia, the Drinking Water Protection Act requires laboratories to immediately report positive results for Fecal Coliform and Escherichia coli in drinking water samples directly to the Water Supplier, the Drinking Water Officer, and the Medical Health Officer in the region the water samples were taken. Immediate reporting is not required if the sample is water for which a public advisory to boil for drinking water has been issued, or if the sample is not a drinking water.

In Yukon Territories, the Public Health and Safety Act requires the laboratory to immediately report any results that exceeds the acceptable concentration for any health-related parameter set out in the Guidelines for Canadian Drinking Water Quality to Environmental Health Services.

Water Suppliers are required by the Act to ensure the laboratory conducting the testing is aware of the applicable standards.

Please submit this completed form and an ALS Chain of Custody with your sample.

1. Are your samples currently used for human consumption in BC or the Yukon?

YES NO

If you selected YES, proceed to #2. If you selected NO, proceed to #5.

2. Are your samples from a water supply system that either:

a) serves more than 1 single family residence in BC, or

YES NO

b) serves more than 15 connections, or is trucked to more than 5 sites in the Yukon Territory

YES NO

If you selected YES to either a) or b), proceed to #3. If you selected NO, proceed to #5.

3. Is your water supply under a boil water advisory?

YES NO

If you selected NO, proceed to #4. If you selected YES, proceed to #5.

4. Please indicate (✓) which Health Authority Region your samples were collected in, and provide the contact details for the applicable Drinking Water and Medical Health Officers:

- Northern
- Interior
- Vancouver Island
- Vancouver Coastal
- Fraser
- Yukon

Water Supplier Name <i>Squamish-Lillooet Regional Dist.</i>	Phone & Email <i>604-698-6041 ewitwichi@srtd.bc.ca</i>
Drinking Water Officer: <i>Angela Whalen</i>	Phone:
Medical Health Officer:	Phone:

5. Name of Sampler: *Edward Witwichi*

Phone: *604 698 6041*

Released by (signature): *[Signature]*

Date: *July 9 2025*

ALS Vancouver can receive samples Monday to Friday (24 hours) and Saturday and Sunday (8:00am to 4:00pm). Please contact ALS for testing limitations around statutory holidays.