

## **CERTIFICATE OF ANALYSIS**

You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

**REPORTED TO** Squamish-Lillooet Regional District

1350 Aster Street

Pemberton, BC V0N2L1

24L2262 **ATTENTION** Kara Sockett **WORK ORDER** 

**PO NUMBER** 

2024-12-18 09:33 / 7.1°C **RECEIVED / TEMP REPORTED** 2024-12-24 09:58 **PROJECT** Water testing

No Number **PROJECT INFO COC NUMBER** 

### Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

enjoy

It's simple. We figure the more you working with fun and our engaged team the more members;

Ahead of the Curve

Through research, regulation and instrumentation, knowledge, are your analytical centre the knowledge you BEFORE you need it, so you can stay

likely you are to give us continued technical opportunities to support you. up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

#### Authorized By:

Team CARO

Client Service Representative

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# **TEST RESULTS**

REPORTED TO	Squamish-Lillooet Regional District	WORK ORDER	24L2262
PROJECT	Water testing	REPORTED	2024-12-24 09:58

Nitrite (as N)         < 0.010	Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Chloride         12.4         AO ≤ 250         0.10         mg/L         2024-12-21           Fluoride         < 0.10         MAC = 1.5         0.10         mg/L         2024-12-21         HT           Nitrate (as N)         0.010         MAC = 10         0.010         mg/L         2024-12-21         HT           Nitrate (as N)         < 0.010         MAC = 1         0.010         mg/L         2024-12-21         HT           Sultate         58.6         AO ≤ 500         1.0         mg/L         2024-12-21         HT           Hardiness, Total (as CaCO3)         241         None Required         0.500         mg/L         N/A           Langelier Index         0.4         N/A         -5.0         2024-12-23         CT           Solids, Total Dissolved         264         AO ≤ 500         1.00         mg/L         2024-12-20         CT           Hardiness, Total (as CaCO3)         1.0         N/A         1.0         mg/L         2024-12-20         CT           Alkalinity, Edenborte (as CaCO3)         1.0         N/A         1.0         mg/L         2024-12-20         AU           Alkalinity, Hydroxide (as CaCO3)         1.0         N/A         1.0         mg/L         2024-12-20	GBW #1-4 (24L2262-01)   Matrix: Water	Sampled: 2024-12	2-17 09:50				
Fluoride	Anions						
Nitrate (as N)	Chloride	12.4	AO ≤ 250	0.10	mg/L	2024-12-21	
Nitrite (as N)	Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2024-12-21	
Suifate         59.6         AO ≤ 500         1.0         mg/L         2024-12-21           Calculated Parameters           Hardness, Total (as CaCO3)         241         None Required         0.500         mg/L         N/A           Langelier Index         0.4         N/A         -5.0         2024-12-23         CT           Solids, Total Dissolved         264         AO ≤ 500         1.00         mg/L         N/A           Alkalinity, Total (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20           Alkalinity, Bicarbonate (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Birchyotade (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Carbonate (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Birchyotade (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Carbonate (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Patrodide (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20	Nitrate (as N)	0.113	MAC = 10	0.010	mg/L	2024-12-21	HT1
Colculated Parameters         Hardness, Total (as CaCO3)         241         None Required         0.500         mg/L         N/A           Langelier Index         0.4         N/A         4.50         2024-12-23         CT           Solids, Total Dissolved         264         AO ≤ 500         1.00         mg/L         N/A           Ceneral Parameters           Alkalinity, Total (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         0.024-12-20         Alkalinity, Phenolphthalein (as CaCO3)         4.1	Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2024-12-21	HT1
Hardness, Total (as CaCO3)         241         None Required         0.50         mg/L         N/A           Langelier Index         0.4         N/A         -5.0         2024-12-23         CT           Solids, Total Dissolved         264         AO ≤ 500         1.0         mg/L         N/A           Converted Parameters           Alkalinity, Carlonate (as CaCO3)         1.0         N/A         1.0         mg/L         2024-12-20         20	Sulfate	59.6	AO ≤ 500	1.0	mg/L	2024-12-21	
Langelier Index	Calculated Parameters						
Langelier Index         0.4         N/A         4.5.0         2024-12-23         CT           Solids, Total Dissolved         264         AO s 500         1.00         mg/L         N/A           Alkalinity, Total (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20           Alkalinity, Total (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Bhenolphthalein (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Bhenolphthalein (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Carbonate (as CaCO3)         1.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Proxide (as CaCO3)         < 1.0	Hardness, Total (as CaCO3)	241	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved         264         AO ≤ 500         1.00         mg/L         N/A           General Parameters           Alkalinity, Total (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         170         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         mg/L         2024-12-20           Alkalinity, Phenolphthalein (as CaCO3)         4.10         N/A         1.0         2024-12-20         HT           Colour, True         5.0         AO         5.0         N/A         2.0         2024-12-20         HT           Copanide (as CaCO3)         4.0         5.0	, ,		· · · · · · · · · · · · · · · · · · ·			2024-12-23	CT6
Alkalinity, Total (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Phenolphthalein (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Phenolphthalein (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Bicarbonate (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Colour, True < 5.0 N/A 1.0 mg/L 2024-12-20  Colour, True < 5.0 N/A 1.0 mg/L 2024-12-20  Colour, True < 5.0 N/A 1.0 mg/L 2024-12-20  Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-12-20  pH 8.12 7.0-10.5 0.10 pH units 2024-12-20  pH 8.12 7.0-10.5 0.10 pH units 2024-12-20  HT Turbidity < 0.10 OG < 1 0.005 Mg/L 2024-12-20  HT Turbidity < 0.000  OG < 1 0.00 NTU 2024-12-20  HT Turbidity < 0.000  OG < 1 0.00 NTU 2024-12-20  HT Turbidity < 0.0000  MAC = 0.00 00000 mg/L 2024-12-20  Arsenic, total 0.00016 MAC = 0.006 0.00020 mg/L 2024-12-20  Arsenic, total 0.00316 MAC = 0.006 0.00020 mg/L 2024-12-20  Arsenic, total 0.00320 MAC = 0.005 0 mg/L 2024-12-20  Barium, total 0.00020 MAC = 0.000 0.00000 mg/L 2024-12-20  Cadmium, total 0.00000 MAC = 0.007 0.00010 mg/L 2024-12-20  Cadmium, total 0.00000 MAC = 0.007 0.00010 mg/L 2024-12-20  Cadmium, total 0.00000 MAC = 0.007 0.00010 mg/L 2024-12-20  Cadmium, total 0.00000 MAC = 0.007 0.00010 mg/L 2024-12-20  Chromium, total 0.00630 MAC = 0.007 0.00010 mg/L 2024-12-20  Chromium, total 0.00634 MAC = 0.000 0.00000 mg/L 2024-12-20  Choper, total 0.00634 MAC = 0.000 0.00000 mg/L 2024-12-20  Magnesium, total 0.00634 MAC = 0.000 0.00000 mg/L 2024-12-20  Magnesium, total 0.00644 N/A 0.00010 mg/L 2024-12-20  Mercuy, total 0.00646 N/A 0.00010 mg/L 2024-12-20  Mercuy, total 0.00646 N/A 0.00000 mg/L 2024-12-20  Mercuy, total 0.0064 N/A 0.00000 mg/L 2024-12-20		264	AO ≤ 500	1.00	mg/L	N/A	
Alkalinity, Phenoiphthalein (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Bicarbonate (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-12-22  HT Conductivity (EC) 415 N/A 2.0 μS/cm 2024-12-22  Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-12-20  HT Temperature, at pH 8.12 7.0-10.5 0.10 pH units 2024-12-20 HT Turbidity < 0.10 OG < 1 0.10 NTU 2024-12-20 HT Turbidity < 0.10 OG < 1 0.10 NTU 2024-12-20 HT Turbidity < 0.10 OG < 1 0.10 NTU 2024-12-20 HT Turbidity < 0.10 OG < 1 0.0050 mg/L 2024-12-20 HT Turbidity < 0.0050 OG < 0.1 0.0050 mg/L 2024-12-20 HT Turbidity < 0.0050 Mg/L 2024-12-20 MAC = 0.0060 0.0020 mg/L 2024-12-20 MAC = 0.0060 mg/L 2024-12	General Parameters						
Alkalinity, Bicarbonate (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Colour, True < < 5.0 AO ≤ 15 5.0 CU 2024-12-22 HT  Conductivity (EC) 415 N/A 2.0 μS/cm 2024-12-20  Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-12-20  PH 8.12 7.0-10.5 0.10 pH units 2024-12-20  pH 8.12 7.0-10.5 0.10 pH units 2024-12-20  HT Temperature, at pH 22.1 N/A °C 2024-12-20 HT  Turbidity < < 0.10 OG < 1 0.10 NTU 2024-12-19  Total Metals  Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2024-12-20  Antimony, total < 0.00020 MAC = 0.000 mg/L 2024-12-20  Antimony, total < 0.00016 MAC = 0.000 0.0000 mg/L 2024-12-20  Ansenic, total 0.00316 MAC = 0.000 0.0000 mg/L 2024-12-20  Boron, total 0.275 MAC = 2 0.0050 mg/L 2024-12-20  Boron, total 0.00020 MAC = 0.007 0.00010 mg/L 2024-12-20  Cadmium, total 0.00020 MAC = 0.007 0.00010 mg/L 2024-12-20  Cadmium, total 0.00030 MAC = 0.007 0.00010 mg/L 2024-12-20  Calcium, total 0.00530 MAC = 0.007 0.00010 mg/L 2024-12-20  Calcium, total 0.00530 MAC = 0.007 0.00010 mg/L 2024-12-20  Calcium, total 0.00630 MAC = 0.007 0.00010 mg/L 2024-12-20  Cobalt, total 0.00630 MAC = 0.000 mg/L 2024-12-20  Copper, total 0.00630 MAC = 0.000 mg/L 2024-12-20  Copper, total 0.00634 MAC = 0.000 mg/L 2024-12-20  Magnesium, total 0.00634 MAC = 0.000 mg/L 2024-12-20  Magnesium, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Magnesium, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Mercury, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Mercury, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Mickel, total 0.00646 N/A 0.00040 mg/L 2024-12-20  Potassium, total 0.00641 N/A 0.00040 mg/L 2024-12-20	Alkalinity, Total (as CaCO3)	170	N/A	1.0	mg/L	2024-12-20	
Alkalinity, Bicarbonate (as CaCO3) 170 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20  Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-12-22 HT  Conductivity (EC) 415 N/A 2.0 μS/cm 2024-12-20  Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2024-12-20  pH 8.12 7.0-10.5 0.10 pH units 2024-12-20 HT  Temperature, at pH 22.1 N/A °C 2024-12-20 HT  Temperature, at pH 22.1 N/A °C 2024-12-20 HT  Turbidity < 0.10 OG < 1 0.10 NTU 2024-12-19  **Total Metals**  Aluminum, total < 0.0050 MAC = 0.006 0.00020 mg/L 2024-12-20  Antimony, total < 0.00316 MAC = 0.006 0.00020 mg/L 2024-12-20  Arsenic, total 0.00316 MAC = 0.010 0.00050 mg/L 2024-12-20  Boron, total 0.00316 MAC = 0.00000 mg/L 2024-12-20  Boron, total 0.00020 MAC = 2 0.0050 mg/L 2024-12-20  Boron, total 0.00020 MAC = 0.0000 mg/L 2024-12-20  Cadmium, total 0.00020 MAC = 0.0000 mg/L 2024-12-20  Cadmium, total 0.00020 MAC = 0.0000 mg/L 2024-12-20  Calcium, total 0.00030 MAC = 0.0000 mg/L 2024-12-20  Calcium, total 0.00630 MAC = 0.000 mg/L 2024-12-20  Cobalt, total 0.00630 MAC = 0.0000 mg/L 2024-12-20  Cobolt, total 0.00630 MAC = 0.0000 mg/L 2024-12-20  Copper, total 0.00630 MAC = 0.0000 mg/L 2024-12-20  Copper, total 0.00634 MAC = 0.0000 mg/L 2024-12-20  Iron, total 0.00634 MAC = 0.0000 mg/L 2024-12-20  Magnesium, total 0.00634 MAC = 0.000 mg/L 2024-12-20  Magnesium, total 0.0064 N/A 0.0001 mg/L 2024-12-20  Mercury, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Mercury, total 0.0064 N/A 0.00010 mg/L 2024-12-20  Mercury, total 0.0064 N/A 0.00001 mg/L 2024-12-20  Mickel, total 0.0064 N/A 0.00001 mg/L 2024-12-20	Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-12-20	
Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2024-12-20 Colour, True < 5.0 AO ≤ 15 5.0 CU 2024-12-22 HT Conductivity (EC) 415 N/A 2.0 µS/cm 2024-12-20 PM		170	N/A			2024-12-20	
Colour, True         < 5.0         AO ≤ 15         5.0         CU         2024-12-22         HT           Conductivity (EC)         415         N/A         2.0         µS/cm         2024-12-20           Cyanide, Total         < 0.0020         MAC = 0.2         0.0020         mg/L         2024-12-20         HT           PH         8.12         7.0-10.5         0.10         PH units         2024-12-20         HT           Temperature, at pH         22.1         N/A         °C         2024-12-20         HT           Turbidity         < 0.10         OG < 1         0.10         NTU         2024-12-20         HT           Turbidity         < 0.10         OG < 1         0.0050         mg/L         2024-12-20         HT           Turbidity         < 0.10         OG < 1         0.0050         mg/L         2024-12-20         HT           Turbidity         < 0.0050         OG < 0.1         0.0050         mg/L         2024-12-20         HT           Turbidity         < 0.0050         MG < 1         0.0050         mg/L         2024-12-20         HT           Turbidity         < 0.0050         MG < 0.01         0.0050         mg/L         2024-12-20           Alumi		< 1.0	N/A	1.0		2024-12-20	
Conductivity (EC)         415         N/A         2.0 µS/cm         2024-12-20           Cyanide, Total         < 0.0020	Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2024-12-20	
Cyanide, Total         < 0.0020         MAC = 0.2         0.0020 mg/L         2024-12-20           pH         8.12         7.0-10.5         0.10 pH units         2024-12-20 HT           Temperature, at pH         22.1         N/A         °C         2024-12-20 HT           Turbidity         < 0.10 ° G < 1	Colour, True	< 5.0	AO ≤ 15	5.0	CU	2024-12-22	HT1
pH         8.12         7.0-10.5         0.10         pH units         2024-12-20         HT           Temperature, at pH         22.1         N/A         °C         2024-12-20         HT           Turbidity         < 0.10	Conductivity (EC)	415	N/A	2.0	μS/cm	2024-12-20	
Temperature, at pH         22.1         N/A         °C         2024-12-20         HT           Turbidity         < 0.10	Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2024-12-20	
Turbidity         < 0.10         OG < 1         0.10         NTU         2024-12-19           Total Metals           Aluminum, total         < 0.0050	pH	8.12	7.0-10.5	0.10	pH units	2024-12-20	HT2
Total Metals           Aluminum, total         < 0.0050	Temperature, at pH	22.1	N/A		°C	2024-12-20	HT2
Aluminum, total         < 0.0050         OG < 0.1         0.0050 mg/L         2024-12-20           Antimony, total         < 0.00020	Turbidity	< 0.10	OG < 1	0.10	NTU	2024-12-19	
Antimony, total         < 0.00020         MAC = 0.006         0.00020 mg/L         2024-12-20           Arsenic, total         0.00316         MAC = 0.01         0.00050 mg/L         2024-12-20           Barium, total         0.0202         MAC = 2         0.0050 mg/L         2024-12-20           Boron, total         0.275         MAC = 5         0.0500 mg/L         2024-12-20           Cadmium, total         0.000020         MAC = 0.007         0.000010 mg/L         2024-12-20           Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.00530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010         N/A         0.00010 mg/L         2024-12-20           Cobalt, total         0.0409         MAC = 2         0.00040 mg/L         2024-12-20           Copper, total         0.037         AO ≤ 0.3         0.010 mg/L         2024-12-20           Iron, total         0.037         AO ≤ 0.3         0.010 mg/L         2024-12-20           Magnesium, total         29.7         None Required         0.010 mg/L         2024-12-20           Margues, total         < 0.00020         MAC = 0.12         0.00020 mg/L         <	Total Metals						
Arsenic, total         0.00316         MAC = 0.01         0.00050 mg/L         2024-12-20           Barium, total         0.0202         MAC = 2         0.0050 mg/L         2024-12-20           Boron, total         0.275         MAC = 5         0.0500 mg/L         2024-12-20           Cadmium, total         0.00020         MAC = 0.007         0.00010 mg/L         2024-12-20           Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.06530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010	Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2024-12-20	
Barium, total         0.0202         MAC = 2         0.0500 mg/L         2024-12-20           Boron, total         0.275         MAC = 5         0.0500 mg/L         2024-12-20           Cadmium, total         0.000020         MAC = 0.007         0.000010 mg/L         2024-12-20           Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.00530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010	Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2024-12-20	
Boron, total         0.275         MAC = 5         0.0500 mg/L         2024-12-20           Cadmium, total         0.000020         MAC = 0.007         0.00010 mg/L         2024-12-20           Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.00530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010	Arsenic, total	0.00316	MAC = 0.01	0.00050	mg/L	2024-12-20	
Cadmium, total         0.000020         MAC = 0.007         0.000010 mg/L         2024-12-20           Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.00530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010	Barium, total	0.0202	MAC = 2	0.0050	mg/L	2024-12-20	
Calcium, total         47.6         None Required         0.20 mg/L         2024-12-20           Chromium, total         0.00530         MAC = 0.05         0.00050 mg/L         2024-12-20           Cobalt, total         < 0.00010	Boron, total	0.275	MAC = 5	0.0500	mg/L	2024-12-20	
Chromium, total         0.00530         MAC = 0.05         0.00050         mg/L         2024-12-20           Cobalt, total         < 0.00010	Cadmium, total	0.000020	MAC = 0.007	0.000010	mg/L	2024-12-20	
Cobalt, total         < 0.00010         N/A         0.00010         mg/L         2024-12-20           Copper, total         0.0409         MAC = 2         0.00040         mg/L         2024-12-20           Iron, total         0.037         AO ≤ 0.3         0.010         mg/L         2024-12-20           Lead, total         0.00634         MAC = 0.005         0.00020         mg/L         2024-12-20           Magnesium, total         29.7         None Required         0.010         mg/L         2024-12-20           Manganese, total         < 0.00020	Calcium, total	47.6	None Required	0.20	mg/L	2024-12-20	
Copper, total         0.0409         MAC = 2         0.00040 mg/L         2024-12-20           Iron, total         0.037         AO ≤ 0.3         0.010 mg/L         2024-12-20           Lead, total         0.00634         MAC = 0.005         0.00020 mg/L         2024-12-20           Magnesium, total         29.7         None Required         0.010 mg/L         2024-12-20           Manganese, total         < 0.00020	Chromium, total	0.00530	MAC = 0.05	0.00050	mg/L	2024-12-20	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2024-12-20	
Lead, total         0.00634         MAC = 0.005         0.00020 mg/L         2024-12-20           Magnesium, total         29.7         None Required         0.010 mg/L         2024-12-20           Manganese, total         < 0.00020	Copper, total	0.0409	MAC = 2	0.00040	mg/L	2024-12-20	
Magnesium, total         29.7         None Required         0.010 mg/L         2024-12-20           Manganese, total         < 0.00020	Iron, total	0.037	AO ≤ 0.3	0.010	mg/L	2024-12-20	
Manganese, total         < 0.00020         MAC = 0.12         0.00020 mg/L         2024-12-20           Mercury, total         < 0.000010	Lead, total	0.00634	MAC = 0.005	0.00020	mg/L	2024-12-20	
Mercury, total         < 0.000010         MAC = 0.001         0.000010         mg/L         2024-12-21           Molybdenum, total         0.00464         N/A         0.00010         mg/L         2024-12-20           Nickel, total         0.00276         N/A         0.00040         mg/L         2024-12-20           Potassium, total         4.00         N/A         0.10         mg/L         2024-12-20	Magnesium, total	29.7	None Required	0.010	mg/L	2024-12-20	
Molybdenum, total         0.00464         N/A         0.00010 mg/L         2024-12-20           Nickel, total         0.00276         N/A         0.00040 mg/L         2024-12-20           Potassium, total         4.00         N/A         0.10 mg/L         2024-12-20	Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2024-12-20	
Nickel, total         0.00276         N/A         0.00040 mg/L         2024-12-20           Potassium, total         4.00         N/A         0.10 mg/L         2024-12-20	Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2024-12-21	
Potassium, total <b>4.00</b> N/A 0.10 mg/L 2024-12-20	Molybdenum, total	0.00464	N/A			2024-12-20	
•	Nickel, total	0.00276	N/A	0.00040	mg/L	2024-12-20	
Selenium, total <b>0.00175</b> MAC = 0.05 0.00050 mg/L 2024-12-20	Potassium, total	4.00	N/A	0.10	mg/L	2024-12-20	
	Selenium, total	0.00175	MAC = 0.05	0.00050	mg/L	2024-12-20	



# **TEST RESULTS**

REPORTED TO Squamish-Lillooet Regional District

PROJECT Water testing

WORK ORDER REPORTED 24L2262

2024-12-24 09:58

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
GBW #1-4 (24L2262-01)   Matri	x: Water   Sampled: 2024-12	-17 09:50, Continu	ıed		
Total Metals, Continued					
Sodium, total	6.90	AO ≤ 200	0.10 mg/L	2024-12-20	
Strontium, total	0.194	MAC = 7	0.0010 mg/L	2024-12-20	
Uranium, total	0.000101	MAC = 0.02	0.000020 mg/L	2024-12-20	
Zinc. total	0.221	AO ≤ 5	0.0040 mg/L	2024-12-20	

### Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.

HT1 The sample was prepared and/or analyzed past the recommended holding time.

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



## **APPENDIX 1: SUPPORTING INFORMATION**

**REPORTED TO** Squamish-Lillooet Regional District

PROJECT Water testing

WORK ORDER REPORTED 24L2262

**ORTED** 2024-12-24 09:58

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

## Glossary of Terms:

RL Reporting Limit (default)

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

NTU Nephelometric Turbidity Units
OG Operational Guideline (treated water)
pH units pH < 7 = acidic, ph > 7 = basic  $\mu S/cm$  Microsiemens per centimetre
ASTM ASTM International Test Methods

EPA United States Environmental Protection Agency Test Methods

SM Standard Methods for the Examination of Water and Wastewater, American Public Health Association



## **APPENDIX 1: SUPPORTING INFORMATION**

**REPORTED TO** Squamish-Lillooet Regional District

PROJECT Water testing

WORK ORDER REPORTED 24L2262

2024-12-24 09:58

#### **General Comments:**

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager:TeamCaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.



**REPORTED TO** Squamish-Lillooet Regional District

PROJECT Water testing

WORK ORDER REPORTED

24L2262 2024-12-24 09:58

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup)**: An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also
  referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.
   Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B4L3250									
Blank (B4L3250-BLK1)			Prepared	l: 2024-12-2	21, Analyze	d: 2024-	12-21		
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B4L3250-BLK2)			Prepared	l: 2024-12-2	21, Analyze	d: 2024-	12-21		
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B4L3250-BS1)			Prepared	l: 2024-12-2	21, Analyze	d: 2024-	12-21		
Chloride	16.4	0.10 mg/L	16.0		102	90-110			
Fluoride	3.97	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.12	0.010 mg/L	4.00		103	90-110			
Nitrite (as N)	2.05	0.010 mg/L	2.00		102	85-115			
Sulfate	16.5	1.0 mg/L	16.0		103	90-110			
LCS (B4L3250-BS2)			Prepared	l: 2024-12-2	21, Analyze	d: 2024-	12-21		
Chloride	16.5	0.10 mg/L	16.0		103	90-110			
Fluoride	4.07	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	4.05	0.010 mg/L	4.00		101	90-110			
Nitrite (as N)	2.02	0.010 mg/L	2.00		101	85-115			
Sulfate	15.9	1.0 mg/L	16.0		99	90-110			

## General Parameters, Batch B4L3289

Plank (PAI 2200 PLK4)

DIAIIK (D4L3203-DLKI)	Frepareu. 2024-12-19, Arialyzeu. 2024-12-19							
Turbidity	< 0.10	0.10 NTU						
LCS (B4L3289-BS1)	Prepared: 2024-12-19, Analyzed: 2024-12-19							
Turbidity	15.8	0.10 NTU	14.6	108	90-110			

Propaged: 2024 12 10 Applyzod: 2024 12 10



	Squamish-Lillooet R Vater testing	Regional Distric	t			WORK REPOR	ORDER RTED	24L2 2024	2262 I-12-24	09:58
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifie
General Parameters,	Batch B4L3289, Con	ntinued								
Duplicate (B4L3289-D	OUP1)	Sou	rce: 24L2262-01	Prepared:	: 2024-12-19	, Analyze	d: 2024-1	2-19		
Turbidity	,	0.10	0.10 NTU	•	< 0.10	·			15	
General Parameters,	Batch B4L3292									
Blank (B4L3292-BLK	1)			Prepared:	: 2024-12-20	), Analyze	ed: 2024-1	2-20		
Cyanide, Total	•	< 0.0020	0.0020 mg/L	•		· · ·				
Blank (B4L3292-BLK	2)			Prepared:	: 2024-12-20	). Analyze	d: 2024-1	2-20		
Cyanide, Total	,	< 0.0020	0.0020 mg/L	'		<u>, , , , , , , , , , , , , , , , , , , </u>				
LCS (B4L3292-BS1)			·	Prepared:	: 2024-12-20	Analyze	d· 2024-1	2-20		
Cyanide, Total		0.0223	0.0020 mg/L	0.0200	. 2021 12 20	112	82-120			
LCS (B4L3292-BS2)			<u> </u>		: 2024-12-20			2-20		
Cyanide, Total		0.0189	0.0020 mg/L	0.0200	. 2024 12 20	94	82-120	2 20		
<u> </u>	CD4)	0.0.00	0.0020 mg/2		. 2024 42 20			2 20		
LCS Dup (B4L3292-B Cyanide, Total	וועפו)	0.0216	0.0020 mg/L	0.0200	: 2024-12-20	108	82-120	3	10	
•	_	0.0210	0.0020 Hig/L						10	
LCS Dup (B4L3292-B Cyanide, Total	SD2)	0.0208	0.0020 mg/L	0.0200	: 2024-12-20	), Analyze 104	ed: 2024-1 82-120	2-20 9	10	
General Parameters,	Batch B4L3324									
Blank (B4L3324-BLK	•			Prepared:	: 2024-12-20	, Analyze	d: 2024-1	2-20		
Alkalinity, Total (as CaCC	•	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthale Alkalinity, Bicarbonate (a		< 1.0 < 1.0	1.0 mg/L 1.0 mg/L							
Alkalinity, Carbonate (as		< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as	CaCO3)	< 1.0	1.0 mg/L							
Conductivity (EC)		< 2.0	2.0 µS/cm							
Temperature, at pH		22.3	°C							
LCS (B4L3324-BS1)				Prepared:	: 2024-12-20	, Analyze	d: 2024-1	2-20		
Alkalinity, Total (as CaCC	D3)	89.2	1.0 mg/L	100		89	80-120			
Alkalinity, Phenolphthale	in (as CaCO3)	30.6	1.0 mg/L	50.0		61	0-200			
LCS (B4L3324-BS2)				Prepared:	: 2024-12-20	, Analyze	d: 2024-1	2-20		
Conductivity (EC)		1420	2.0 μS/cm	1410		100	95-105			
Reference (B4L3324-	SRM1)			Prepared:	: 2024-12-20	, Analyze	d: 2024-1	2-20		
•	- ,	7.02	0.10 pH units	•		100				
LCS (B4L3324-BS2)	SRM1) Batch B4L3467		-	Prepared: 1410 Prepared: 7.01	: 2024-12-20 : 2024-12-20 : 2024-12-22	, Analyze 100 , Analyze 100	ed: 2024-1 95-105 ed: 2024-1 98-102	2-20		
		- 0.0	3.0 00	D==:	. 0004 40 00	λ	٠, ٥٥٥.4. 4	2.22		
	2)			Prepared:	: 2024-12-22	, Analyze	a: 2024-1	2-22		
Blank (B4L3467-BLK										
Colour, True		< 5.0	5.0 CU							
•				Prepared:	: 2024-12-22	, Analyze	ed: 2024-1	2-22		
Colour, True		< 5.0 19	5.0 CU	Prepared:	: 2024-12-22	, Analyze	ed: 2024-1 85-115	2-22		
Colour, True LCS (B4L3467-BS1)				20.0	: 2024-12-22 : 2024-12-22	96	85-115			



	Squamish-Lillooet Regional Dist Vater testing	rict					4L2262 024-12-24 09:58		
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B	4L3379								
Blank (B4L3379-BLK	1)		Prepared	: 2024-12-2	0, Analyze	ed: 2024-	12-20		
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Copper total	< 0.00010	0.00010 mg/L							
Copper, total Iron, total	< 0.00040	0.00040 mg/L							
Lead, total	< 0.010 < 0.00020	0.010 mg/L 0.00020 mg/L							
Magnesium, total	< 0.00020	0.00020 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00020	0.00020 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B4L3379-BS1)			Prepared	: 2024-12-2	0, Analyze	ed: 2024-	12-20		
Aluminum, total	3.89	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0380	0.00020 mg/L	0.0400		95	80-120			
Arsenic, total	0.389	0.00050 mg/L	0.400		97	80-120			
Barium, total	0.0395	0.0050 mg/L	0.0400		99	80-120			
Boron, total	0.395	0.0500 mg/L	0.400		99	80-120			
Cadmium, total	0.0389	0.000010 mg/L	0.0400		97	80-120			
Calcium, total	4.07	0.20 mg/L	4.00		102	80-120			
Chromium, total	0.0395	0.00050 mg/L	0.0400		99	80-120			
Cobalt, total	0.0394	0.00010 mg/L	0.0400		98	80-120			
Copper, total	0.0394	0.00040 mg/L	0.0400		98	80-120			
Iron, total	3.92	0.010 mg/L	4.00		98	80-120			
Lead, total	0.0396	0.00020 mg/L	0.0400		99	80-120			
Magnesium, total	3.90	0.010 mg/L 0.00020 mg/L	4.00		97	80-120			
Manganese, total Molybdenum, total	0.0398 0.0395	0.00020 mg/L 0.00010 mg/L	0.0400 0.0400		99	80-120 80-120			
Nickel, total	0.0395	0.00010 mg/L	0.0400		101	80-120			
Potassium, total	4.00	0.00040 mg/L	4.00		100	80-120			
Selenium, total	0.386	0.00050 mg/L	0.400		97	80-120			
Sodium, total	3.90	0.10 mg/L	4.00		98	80-120			
Strontium, total	0.0394	0.0010 mg/L	0.0400		98	80-120			
Uranium, total	0.0396	0.000020 mg/L	0.0400		99	80-120			
Zinc, total	0.383	0.0040 mg/L	0.400		96	80-120			
Matrix Spike (B4L337	9-MS1) S	ource: 24L2262-01	Prepared	: 2024-12-2	0, Analyze	ed: 2024-	12-20		
Aluminum, total	4.00	0.0050 mg/L	4.00	< 0.0050	100	70-130			
Antimony, total	0.0405	0.00020 mg/L	0.0400	< 0.00020	101	70-130			
Arsenic, total	0.410	0.00050 mg/L	0.400	0.00316	102	70-130			
Barium, total	0.0620	0.0050 mg/L	0.0400	0.0202	105	70-130			
Boron, total	0.656	0.0500 mg/L	0.400	0.275	95	70-130			
Cadmium, total	0.0416	0.000010 mg/L	0.0400	0.000020	104	70-130			
Calcium, total	51.1	0.20 mg/L	4.00	47.6	89	70-130			
Chromium, total	0.0453	0.00050 mg/L	0.0400	0.00530	100	70-130			



REPORTED TO Squamish-Lillooet F PROJECT Water testing		Regional Disti	rict			WORK REPOR	K ORDER 24L226 ORTED 2024-12			09:58
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batcl	h B4L3379, Continued									
Matrix Spike (B4L3	3379-MS1), Continued	Sc	ource: 24L2262-01	Prepared	l: 2024-12-2	0, Analyze	d: 2024-1	2-20		
Cobalt, total		0.0390	0.00010 mg/L	0.0400	< 0.00010	97	70-130			
Copper, total		0.0783	0.00040 mg/L	0.0400	0.0409	94	70-130			
Iron, total		4.05	0.010 mg/L	4.00	0.037	100	70-130			
Lead, total		0.0474	0.00020 mg/L	0.0400	0.00634	103	70-130			
Magnesium, total		32.9 0.0398	0.010 mg/L	4.00	29.7	82 99	70-130			
Manganese, total  Molybdenum, total		0.0396	0.00020 mg/L 0.00010 mg/L	0.0400	< 0.00020 0.00464	107	70-130 70-130			
Nickel, total		0.0473	0.00040 mg/L	0.0400	0.00404	98	70-130			
Potassium, total		8.00	0.10 mg/L	4.00	4.00	100	70-130			
Selenium, total		0.398	0.00050 mg/L	0.400	0.00175	99	70-130			
Sodium, total		10.6	0.10 mg/L	4.00	6.90	92	70-130			
Strontium, total		0.232	0.0010 mg/L	0.0400	0.194	96	70-130			
Uranium, total Zinc, total		0.0428	0.000020 mg/L 0.0040 mg/L	0.0400	0.000101	107 95	70-130 70-130			
Total Metals, Batcl	h B4L3490	0.002	5.55 .5 mg/2	0.100	0.22		70 100			
Blank (B4L3490-Bl	LK1)			Prepared	I: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total		< 0.000010	0.000010 mg/L							
Blank (B4L3490-Bl	LK2)			Prepared	I: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total		< 0.000010	0.000010 mg/L							
Blank (B4L3490-Bl	LK3)			Prepared	l: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total		< 0.000010	0.000010 mg/L							
Blank (B4L3490-Bl	LK4)			Prepared	l: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total		< 0.000010	0.000010 mg/L							
Blank (B4L3490-Bl	LK5)			Prepared	l: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total	-	< 0.000010	0.000010 mg/L							
Blank (B4L3490-Bl	LK6)			Prepared	l: 2024-12-2	1, Analyze	d: 2024-1	2-21		
Mercury, total	-,	< 0.000010	0.000010 mg/L			· ·				
LCS (B4L3490-BS	1)		-	Prepared	l: 2024-12-2	1. Analyze	d: 2024-1	2-21		
Mercury, total	-,	0.00266	0.000010 mg/L	0.00250		106	80-120			
LCS (B4L3490-BS2	2)			Prepared	l: 2024-12-2	1. Analvze	d: 2024-1	2-21		
Mercury, total	,	0.00274	0.000010 mg/L	0.00250	-	110	80-120			
LCS (B4L3490-BS	3)			Prepared	I: 2024-12-2	1. Analvze	d: 2024-1	2-21		
Mercury, total	-,	0.00253	0.000010 mg/L	0.00250		101	80-120			
LCS (B4L3490-BS4	4)		-	Prepared	l: 2024-12-2	1. Analyze	d: 2024-1	2-21		
Mercury, total	•,	0.00216	0.000010 mg/L	0.00250		86	80-120			
LCS (B4L3490-BS	5)		<u> </u>		I: 2024-12-2			2-21		
Mercury, total	~,	0.00239	0.000010 mg/L	0.00250		96	80-120	'		
LCS (B4L3490-BS6	8)	1.30200	,		I: 2024-12-2			2-21		
Mercury, total	<b>∽</b> ,	0.00295	0.000010 mg/L	0.00250	LUL <del>T</del> -1L=L	11, Allaly26 118	80-120	<u> </u>		
	<b>-</b> \	0.00200	3.000 TO Hig/L		1. 0004 40 0			2.24		
LCS (B4L3490-BS)	7)	0.00040	0.000040		l: 2024-12-2			2-21		
Mercury, total		0.00243	0.000010 mg/L	0.00250		97	80-120			





You know that the sample you collected after

snowshoeing to site, digging 5 meters, and

racing to get it on a plane so you can submit it

to the lab for time sensitive results needed to

make important and expensive decisions

(whew) is VERY important. We know that too.

**REPORTED TO** Regional District of Squamish-Lillooet

1350 Aster Street

Pemberton, BC V0N2L1

**ATTENTION** Kara Sockett **WORK ORDER** 25A1348

**PO NUMBER** 

**REPORTED** 2025-01-17 09:59 **PROJECT** Gold Bridge Water Lead

B141209 **PROJECT INFO COC NUMBER** 

### Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks

We've Got Chemistry

It's simple. We figure the more you fun working with our enjoy engaged team members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

research, regulation and instrumentation, analytical centre the knowledge technical you BEFORE you need it, so you can stay

2025-01-14 09:39 / 2.9°C

Through and knowledge, the more are your

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up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: https://www.caro.ca/terms-conditions

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

#### Authorized By:

Team CARO

Client Service Representative

1-888-311-8846 | www.caro.ca



# **TEST RESULTS**

REPORTED TORegional District of Squamish-LillooetWORK ORDER25A1348PROJECTGold Bridge Water LeadREPORTED2025-01-17 09:59

Result **RL** Units Qualifier **Analyte** Analyzed GBW #1 (25A1348-01) | Matrix: Water | Sampled: 2025-01-13 09:35 Total Metals 0.00020 mg/L Lead, total 0.00234 2025-01-16 GBW #2 (25A1348-02) | Matrix: Water | Sampled: 2025-01-13 09:55 Total Metals Lead, total 0.00085 0.00020 mg/L 2025-01-16



## **APPENDIX 1: SUPPORTING INFORMATION**

REPORTED TO Regional District of Squamish-Lillooet

PROJECT Gold Bridge Water Lead

WORK ORDER REPORTED 25A1348

**PORTED** 2025-01-17 09:59

Analysis Description	Method Ref.	Technique	Accredited	Location
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond

### **Glossary of Terms:**

RL Reporting Limit (default)

MAC Maximum Acceptable Concentration (health based)

mg/L Milligrams per litre

EPA United States Environmental Protection Agency Test Methods

### **General Comments:**

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do <u>not</u> take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: TeamCaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.



**REPORTED TO** Regional District of Squamish-Lillooet

PROJECT Gold Bridge Water Lead

WORK ORDER REPORTED

25A1348 2025-01-17 09:59

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- Method Blank (Blk): A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup)**: An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- Blank Spike (BS): A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- Matrix Spike (MS): A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- Reference Material (SRM): A homogenous material of similar matrix to the samples, certified for the parameter(s) listed.
   Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5A2532									
Blank (B5A2532-BLK1)			Prepared	l: 2025-01-1	I6, Analyze	d: 2025-	01-16		
Lead, total	< 0.00020	0.00020 mg/L							
LCS (B5A2532-BS1)			Prepared	l: 2025-01-1	I6, Analyze	d: 2025-0	01-16		
Lead, total	0.0406	0.00020 mg/L	0.0400		102	80-120			
Total Metals, Batch B5A2540									
Blank (B5A2540-BLK1)			Prepared	l: 2025-01-1	I6, Analyze	d: 2025-	01-16		
Lead, total	< 0.00020	0.00020 mg/L							
LCS (B5A2540-BS1)			Prepared	l: 2025-01-1	I6, Analyze	d: 2025-	01-16		
Lead, total	0.0402	0.00020 mg/L	0.0400		101	80-120			