



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

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

REPORTED TO Glenmore Ellison Improvement District

445 Glenmore Road KELOWNA, BC V1V 1Z6

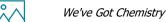
ATTENTION Chris Mackay WORK ORDER 25J2423

PROJECTDrinking WaterREPORTED2025-10-29 16:56PROJECT INFOComprehensive Samples - Okanagan Lake SourceCOC NUMBEReCOC#00028946

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



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

Ahead of the Curve

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

decisions

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

Authorized By:

Hanane El Hannaoui Junior Account Manager Flo

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



TEST RESULTS

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REPORTED TO PROJECT	Glenmore Ellison Improvement District Drinking Water			WORK ORDER REPORTED	25J2423 2025-10-29 16:56		

Analyte	Result	Guideline	RL	Units	Analyzed	Qualific
Okanagan Lake P/S (RAW) (25J2423-01)	Matrix: Water S	Sampled: 2025-10-1	7 10:15			
Anions						
Chloride	6.44	AO ≤ 250	0.10	mg/L	2025-10-18	
Fluoride	0.14	MAC = 1.5	0.10	mg/L	2025-10-18	
Nitrate (as N)	< 0.010	MAC = 10	0.010		2025-10-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-18	
Sulfate	30.5	AO ≤ 500	1.0	mg/L	2025-10-18	
General Parameters						
Alkalinity, Total (as CaCO3)	133	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Bicarbonate (as CaCO3)	133	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Conductivity (EC)	306	N/A	2.0	μS/cm	2025-10-17	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-10-18	
рН	8.06	7.0-10.5	0.10	pH units	2025-10-17	HT2
Turbidity	0.26	OG < 1	0.10	NTU	2025-10-17	
Total Metals						
Aluminum, total	0.0056	OG < 0.1	0.0050	mg/L	2025-10-20	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-20	
Arsenic, total	0.00051	MAC = 0.01	0.00050	mg/L	2025-10-20	
Barium, total	0.0223	MAC = 2	0.0050	mg/L	2025-10-20	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-20	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-10-20	
Calcium, total	34.9	None Required	0.20	mg/L	2025-10-20	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20	
Copper, total	0.00105	MAC = 2	0.00040	mg/L	2025-10-20	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-20	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-20	
Magnesium, total	10.1	None Required	0.010	mg/L	2025-10-20	
Manganese, total	0.00110	MAC = 0.12	0.00020	mg/L	2025-10-20	
Potassium, total	2.61	N/A	0.10	mg/L	2025-10-20	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20	
Sodium, total	12.3	AO ≤ 200	0.10	mg/L	2025-10-20	
Strontium, total	0.284	MAC = 7	0.0010	mg/L	2025-10-20	
Uranium, total	0.00254	MAC = 0.02	0.000020	mg/L	2025-10-20	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-20	

UV Plant (PRE UV - RAW) Sink (25J2423-02) | Matrix: Water | Sampled: 2025-10-17 10:40

Anions					
Chloride	6.57	AO ≤ 250	0.10 mg/L	2025-10-18	
Fluoride	0.15	MAC = 1.5	0.10 mg/L	2025-10-18	



TEST RESULTS

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REPORTED TO	Glenmore Ellison Improvement District	WORK ORDER	25J2423

PROJECT Glenmore Ellison Impr	ovement District			REPORTED 2025-10-2		29 16:56	
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier	
UV Plant (PRE UV - RAW) Sink (25J2423	-02) Matrix: Wate	r Sampled: 2025-1	10-17 10:40,	Continued			
Anions, Continued							
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2025-10-18		
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-18		
Sulfate	30.1	AO ≤ 500	1.0	mg/L	2025-10-18		
General Parameters							
Alkalinity, Total (as CaCO3)	128	N/A	1.0	mg/L	2025-10-17		
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17		
Alkalinity, Bicarbonate (as CaCO3)	128	N/A	1.0	mg/L	2025-10-17		
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17		
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17		
Conductivity (EC)	308	N/A	2.0	μS/cm	2025-10-17		
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-10-18		
pH	7.76	7.0-10.5	0.10	pH units	2025-10-17	HT2	
Turbidity	0.21	OG < 1	0.10	NTU	2025-10-17		
Total Metals							
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-10-20		
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-20		
Arsenic, total	0.00053	MAC = 0.01	0.00050	mg/L	2025-10-20		
Barium, total	0.0225	MAC = 2	0.0050	mg/L	2025-10-20		
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-20		
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-10-20		
Calcium, total	35.2	None Required	0.20	mg/L	2025-10-20		
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20		
Copper, total	0.00115	MAC = 2	0.00040	mg/L	2025-10-20		
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-20		
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-20		
Magnesium, total	10.1	None Required	0.010	mg/L	2025-10-20		
Manganese, total	0.00096	MAC = 0.12	0.00020	mg/L	2025-10-20		
Potassium, total	2.59	N/A	0.10	mg/L	2025-10-20		
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20		
Sodium, total	12.3	AO ≤ 200	0.10	mg/L	2025-10-20		
Strontium, total	0.283	MAC = 7	0.0010	mg/L	2025-10-20		
Uranium, total	0.00250	MAC = 0.02	0.000020	mg/L	2025-10-20		
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-20		

Clearwell Outflow (25J2423-03) | Matrix: Drinking Water | Sampled: 2025-10-17 10:50

Anions					
Chloride	8.33	AO ≤ 250	0.10 mg/L	2025-10-18	
Fluoride	0.15	MAC = 1.5	0.10 mg/L	2025-10-18	
Nitrate (as N)	< 0.010	MAC = 10	0.010 mg/L	2025-10-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-18	



TEST RESULTS

REPORTED TO Glenmore Ellison Improvement District

PROJECT Drinking Water

WORK ORDER REPORTED 25J2423 2025-10-29 16:56

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

Clearwell Outflow (25J2423-03) | Matrix: Drinking Water | Sampled: 2025-10-17 10:50, Continued

Anions, Continued						
Sulfate	29.6	AO ≤ 500	1.0	mg/L	2025-10-18	
General Parameters						
Alkalinity, Total (as CaCO3)	127	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Bicarbonate (as CaCO3)	127	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-10-17	
Conductivity (EC)	308	N/A	2.0	μS/cm	2025-10-17	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-10-18	
pH	7.67	7.0-10.5	0.10	pH units	2025-10-17	HT2
Turbidity	0.32	OG < 1	0.10	NTU	2025-10-17	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-10-20	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-20	
Arsenic, total	0.00050	MAC = 0.01	0.00050	mg/L	2025-10-20	
Barium, total	0.0220	MAC = 2	0.0050	mg/L	2025-10-20	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-20	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-10-20	
Calcium, total	35.1	None Required	0.20	mg/L	2025-10-20	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20	
Copper, total	0.00124	MAC = 2	0.00040	mg/L	2025-10-20	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-20	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-20	
Magnesium, total	9.88	None Required	0.010	mg/L	2025-10-20	
Manganese, total	0.00092	MAC = 0.12	0.00020	mg/L	2025-10-20	
Potassium, total	2.57	N/A	0.10	mg/L	2025-10-20	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-20	
Sodium, total	12.2	AO ≤ 200	0.10	mg/L	2025-10-20	
Strontium, total	0.282	MAC = 7	0.0010	ma/l	2025-10-20	

Sample Qualifiers:

Uranium, total

Zinc, total

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

MAC = 0.02

AO ≤ 5

0.00254

< 0.0040

0.000020 mg/L

0.0040 mg/L

2025-10-20

2025-10-20



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Glenmore Ellison Improvement District

PROJECT Drinking Water

WORK ORDER

25J2423

REPORTED 2025-10-29 16:56

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
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
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
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

AO Aesthetic Objective

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

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. 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: hhannaoui@caro.ca

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