CERTIFICATE OF ANALYSIS

REPORTED TO	Campbell Scientific Canada Corp. 1030 Sugar Lake Rd Cherryville, BC V0E 2G2		
ATTENTION	Claude Labine.	**WORK ORDER**	25L1484
PO NUMBER		**RECEIVED / TEMP**	2025-12-10 14:29 / 10.4°C
PROJECT	Cherryville Waterways	**REPORTED**	2025-12-17 10:27
PROJECT INFO		**COC NUMBER**	40837.5581

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

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.

We've Got Chemistry

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

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

Authorized By:

Team CARO
Client Service Representative

TEST RESULTS

REPORTED TO	Campbell Scientific Canada Corp.	**WORK ORDER**	25L1484
PROJECT	Cherryville Waterways	**REPORTED**	2025-12-17 10:27

Analyte	Result	RL	Units	Analyzed	Qualifier
Km 1, Culvert (25L1484-01) | Matrix: Water | Sampled: 2025-12-10 11:46					FILT, PRES
Anions					
Nitrate (as N)	**8.87**	0.010	mg/L	2025-12-11	
General Parameters					
Ammonia, Total (as N)	**0.062**	0.050	mg/L	2025-12-11	
Conductivity (EC)	**726**	2.0	µS/cm	2025-12-12	
pH	**8.11**	0.10	pH units	2025-12-12	HT2
Phosphorus, Total Dissolved	**0.0416**	0.0050	mg/L	2025-12-15	
Solids, Total Dissolved	**422**	15	mg/L	2025-12-15	
Turbidity	**4.26**	0.10	NTU	2025-12-11	
Microbiological Parameters					
Coliforms, Total (Q-Tray)	**2620**	1	MPN/100 mL	2025-12-11	
E. coli (Q-Tray)	**70**	1	MPN/100 mL	2025-12-11	
Miscellaneous Herbicides					
Glyphosate	< 0.050	0.050	mg/L	2025-12-12	
Ferry Creek @Shuswap River (25L1484-02) | Matrix: Water | Sampled: 2025-12-10 11:31					FILT, PRES
Anions					
Nitrate (as N)	< 0.010	0.010	mg/L	2025-12-12	
General Parameters					
Ammonia, Total (as N)	**0.053**	0.050	mg/L	2025-12-11	
Conductivity (EC)	**334**	2.0	µS/cm	2025-12-12	
pH	**8.20**	0.10	pH units	2025-12-12	HT2
Phosphorus, Total Dissolved	< 0.0050	0.0050	mg/L	2025-12-15	
Solids, Total Dissolved	**194**	15	mg/L	2025-12-15	
Turbidity	**0.24**	0.10	NTU	2025-12-11	
Microbiological Parameters					
Coliforms, Total (Q-Tray)	**518**	1	MPN/100 mL	2025-12-11	
E. coli (Q-Tray)	**1**	1	MPN/100 mL	2025-12-11	
Shuswap River Sihlis Road (25L1484-03) | Matrix: Water | Sampled: 2025-12-10 11:00					FILT, PRES
Anions					
Nitrate (as N)	< 0.010	0.010	mg/L	2025-12-11	
General Parameters					
Ammonia, Total (as N)	< 0.050	0.050	mg/L	2025-12-11	
Conductivity (EC)	**78.5**	2.0	µS/cm	2025-12-12	
pH	**7.92**	0.10	pH units	2025-12-12	HT2

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Analyte	Result	RL	Units	Analyzed	Qualifier
Shuswap River Sihlis Road (25L1484-03) | Matrix: Water | Sampled: 2025-12-10 11:00, Continued					FILT, PRES
General Parameters, Continued					
Phosphorus, Total Dissolved	< 0.0050	0.0050	mg/L	2025-12-15	
Solids, Total Dissolved	**43**	15	mg/L	2025-12-15	
Turbidity	**0.94**	0.10	NTU	2025-12-11	
Microbiological Parameters					
Coliforms, Total (Q-Tray)	**290**	1	MPN/100 mL	2025-12-11	
E. coli (Q-Tray)	**2**	1	MPN/100 mL	2025-12-11	
Reiter Creek @ Shuswap River (25L1484-04) | Matrix: Water | Sampled: 2025-12-10 10:57					FILT, PRES
Anions					
Nitrate (as N)	< 0.010	0.010	mg/L	2025-12-11	
General Parameters					
Ammonia, Total (as N)	**0.059**	0.050	mg/L	2025-12-11	
Conductivity (EC)	**226**	2.0	µS/cm	2025-12-12	
pH	**8.01**	0.10	pH units	2025-12-12	HT2
Phosphorus, Total Dissolved	**0.0075**	0.0050	mg/L	2025-12-15	
Solids, Total Dissolved	**126**	15	mg/L	2025-12-15	
Turbidity	**1.13**	0.10	NTU	2025-12-11	
Microbiological Parameters					
Coliforms, Total (Q-Tray)	**99**	1	MPN/100 mL	2025-12-11	
E. coli (Q-Tray)	**14**	1	MPN/100 mL	2025-12-11	

Sample Qualifiers:

FILT	The sample has been filtered for PDP in the laboratory. Results may not reflect conditions at the time of sampling.
HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
PRES	Sample has been preserved for PDP, NH3 in the laboratory and the holding time has been extended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Campbell Scientific Canada Corp.	**WORK ORDER**	25L1484
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Analysis Description	Method Ref.	Technique	Accredited	Location
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
E. coli in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Glyphosate in Water	EPA 547*	Direct Aqueous Injection HPLC with Post-Column Derivatization and Fluorescence Detection	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Phosphorus, Total Dissolved in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	Kelowna
Solids, Total Dissolved in Water	Solids in Water, Filtered / SM 2540 C* (2020)	Solids in Water, Filtered / Gravimetry (Dried at 103-105C)	✓	Kelowna
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
mg/L	Milligrams per litre
MPN/100 mL	Most Probable Number per 100 millilitres
NTU	Nephelometric Turbidity Units
pH units	pH < 7 = acidic, ph > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

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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 not 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

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.