

CERTIFICATE OF ANALYSIS

REPORTED TO	Cherry Ridge Management 158 North Fork Road Cherryville, BC V0E 2G3	WORK ORDER	24B1960
ATTENTION	Melanie Staker	RECEIVED / TEMP REPORTED	2024-02-20 09:12 / 1.7°C 2024-02-27 10:06
PO NUMBER	Cherry Ridge Management Creek Monitoring	COC NUMBER	No Number
PROJECT	Creek Monitoring		
PROJECT INFO			

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>

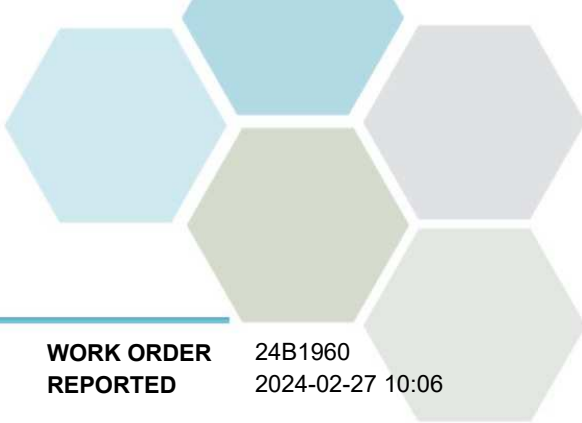
If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
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TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Sugar Lake Rd. 1 km (24B1960-01) | Matrix: Water | Sampled: 2024-02-19 15:20

F1, F3,
FILT,
PRES

Anions

Chloride	34.4	AO ≤ 250	0.10	mg/L	2024-02-22	
Nitrate (as N)	4.72	MAC = 10	0.010	mg/L	2024-02-22	
Nitrite (as N)	0.031	MAC = 1	0.010	mg/L	2024-02-22	
Sulfate	33.9	AO ≤ 500	1.0	mg/L	2024-02-22	

Calculated Parameters

Nitrate+Nitrite (as N)	4.75	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	5.23	N/A	0.0500	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2024-02-26	
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General Parameters

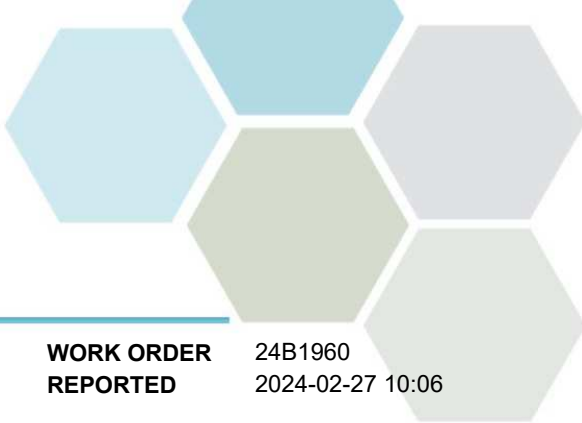
Conductivity (EC)	724	N/A	2.0	µS/cm	2024-02-21	
Nitrogen, Total Kjeldahl	0.484	N/A	0.050	mg/L	2024-02-22	
pH	8.14	7.0-10.5	0.10	pH units	2024-02-21	HT2
Phosphorus, Total (as P)	0.138	N/A	0.0050	mg/L	2024-02-22	
Phosphorus, Total Dissolved	0.131	N/A	0.0050	mg/L	2024-02-22	
Turbidity	0.92	OG < 1	0.10	NTU	2024-02-21	

Microbiological Parameters

Coliforms, Total (Q-Tray)	> 2420	MAC = 0	1	MPN/100 mL	2024-02-20	
E. coli (Q-Tray)	> 2420	MAC = 0	1	MPN/100 mL	2024-02-20	

Sample Qualifiers:

- F1 The sample was not field-filtered and was therefore filtered through a 0.45 µm membrane in the laboratory and preserved with HNO3 prior to analysis for dissolved metals.
- F3 Results may be biased low due to sub-sampling from general container.
- FILT The sample has been filtered for TDP 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 TDP, TP, TKN in the laboratory and the holding time has been extended.



APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Accredited	Location
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
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
E. coli in Water	SM 9223 (2016)	Quanti-Tray / Enzyme Substrate Endo Agar	✓	Kelowna
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
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
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2021)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	✓	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

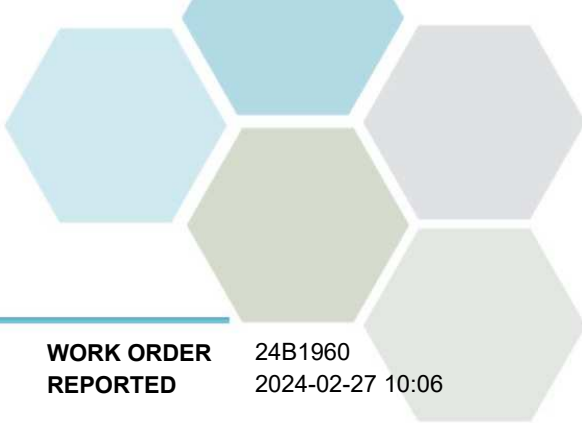
Glossary of Terms:

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
>	Greater than the specified Result
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
MPN/100 mL	Most Probable Number per 100 millilitres
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
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

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



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