

**REPORTED TO** Cherry Ridge Management  
37 Hollingsworth Rd  
Cherryville, BC V0E 2G2

**TEL** 1-250-547-9091  
**FAX** -

**ATTENTION** Melanie Staker

**WORK ORDER** 3090888

**PO NUMBER**

**RECEIVED / TEMP** Sep-16-13 09:15 / 15°C

**PROJECT** Creek Monitoring

**REPORTED** Sep-23-13

**PROJECT INFO**

**COC NUMBER** B 14785

**General Comments:**

CARO Analytical Services employs methods which are conducted according to procedures accepted by appropriate regulatory agencies, and/or are conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts, except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the Chain of Custody or Sample Requisition 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. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.



Issued By:

**Jennifer Shanko, ASCT**  
Administration Coordinator

*Please contact CARO if more information is needed or to provide feedback on our services.*

**Locations:**

#110 4011 Viking Way  
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Analysis Description	Method Reference (* = modified from)		Location
	Preparation	Analysis	
Alkalinity, total	N/A	APHA 2320 B	Kelowna
Chloride in Water by IC	N/A	APHA 4110 B	Kelowna
Conductivity in Water	N/A	APHA 2510 B	Kelowna
E. coli (Partition Method)	N/A	APHA 9222 G	Kelowna
Fluoride in Water by IC	N/A	APHA 4110 B	Kelowna
Nitrate-N in Water by IC	N/A	APHA 4110 B	Kelowna
Nitrite-N in Water by IC	N/A	APHA 4110 B	Kelowna
pH in Water	N/A	APHA 4500-H+ B	Kelowna
Phosphorus, Total Dissolved Kjeldahl	N/A	EPA 365.4 (1974) *	Kelowna
Phosphorus, Total Kjeldahl	N/A	EPA 365.4 (1974) *	Kelowna
Potability, IH Comprehensive Pkg	N/A	APHA 1030 E	Kelowna
Sulfate in Water by IC	N/A	APHA 4110 B	Kelowna
Total Kjeldahl Nitrogen	N/A	EPA 351.2 (1993) *	Kelowna
Turbidity	N/A	APHA 2130 B	Kelowna

*Note: The numbers in brackets represent the year that the method was published/approved*

**Method Reference Descriptions:**

APHA Standard Methods for the Examination of Water and Wastewater, American Public Health Association  
EPA United States Environmental Protection Agency Test Methods

**Glossary of Terms:**

MRL Method Reporting Limit  
< Less than the Reported Detection Limit (RDL) - the RDL may be higher than the MRL due to various factors such as dilutions, limited sample volume, high moisture, or interferences  
AO Aesthetic objective  
MAC Maximum acceptable concentration (health-related guideline)  
CFU/100mL Colony Forming Units per 100 mL  
mg/L Milligrams per litre  
NTU Nephelometric Turbidity Units  
pH units pH < 7 = acidic, pH > 7 = basic  
uS/cm Microsiemens per centimeter

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Analyte	Result / Recovery	Canadian DW Guideline	MRL / Limit	Units	Prepared	Analyzed	Notes
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**Anions**

**Sample ID: North Fork Cherry Creek (3090888-01) [Water] Sampled: Sep-15-13 15:06**

Chloride	0.12	AO ≤ 250	0.10	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrate as N	0.016	MAC = 10	0.010	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Sep-18-13	
Sulfate	12.6	AO ≤ 500	1.0	mg/L	N/A	Sep-18-13	

**Sample ID: South Fork Cherry Creek (3090888-02) [Water] Sampled: Sep-15-13 14:18**

Chloride	1.53	AO ≤ 250	0.10	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrate as N	0.050	MAC = 10	0.010	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Sep-18-13	
Sulfate	18.0	AO ≤ 500	1.0	mg/L	N/A	Sep-18-13	

**Sample ID: Cherry Creek (at Hall) (3090888-03) [Water] Sampled: Sep-15-13 13:41**

Chloride	2.08	AO ≤ 250	0.10	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrate as N	0.012	MAC = 10	0.010	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Sep-18-13	
Sulfate	17.6	AO ≤ 500	1.0	mg/L	N/A	Sep-18-13	

**Sample ID: Shuswap River (at Picnic Site) (3090888-04) [Water] Sampled: Sep-15-13 09:55**

Chloride	0.35	AO ≤ 250	0.10	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrate as N	< 0.010	MAC = 10	0.010	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Sep-18-13	
Sulfate	5.7	AO ≤ 500	1.0	mg/L	N/A	Sep-18-13	

**Sample ID: Ferry Creek (3090888-05) [Water] Sampled: Sep-15-13 10:10**

Chloride	0.69	AO ≤ 250	0.10	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrate as N	0.019	MAC = 10	0.010	mg/L	N/A	Sep-18-13	
Nitrogen, Nitrite as N	< 0.010	MAC = 1	0.010	mg/L	N/A	Sep-18-13	
Sulfate	23.0	AO ≤ 500	1.0	mg/L	N/A	Sep-18-13	

**General Parameters**

**Sample ID: North Fork Cherry Creek (3090888-01) [Water] Sampled: Sep-15-13 15:06**

Conductivity (EC)	209		2	uS/cm	N/A	Sep-16-13	
Nitrogen, Total Kjeldahl	0.12		0.05	mg/L	Sep-16-13	Sep-20-13	
pH	8.16	AO = 6.5 - 8.5	0.01	pH units	N/A	Sep-16-13	
Phosphorus, Total Kjeldahl	0.02		0.01	mg/L	Sep-16-13	Sep-20-13	
Phosphorus, Total Kjeldahl Dissolved	0.01		0.01	mg/L	Sep-16-13	Sep-20-13	
Turbidity	0.3	See Guidelines	0.1	NTU	Sep-16-13	Sep-16-13	

**Sample ID: South Fork Cherry Creek (3090888-02) [Water] Sampled: Sep-15-13 14:18**

Conductivity (EC)	266		2	uS/cm	N/A	Sep-16-13	
Nitrogen, Total Kjeldahl	0.13		0.05	mg/L	Sep-16-13	Sep-20-13	
pH	8.22	AO = 6.5 - 8.5	0.01	pH units	N/A	Sep-16-13	
Phosphorus, Total Kjeldahl	0.02		0.01	mg/L	Sep-16-13	Sep-20-13	
Phosphorus, Total Kjeldahl Dissolved	0.02		0.01	mg/L	Sep-16-13	Sep-20-13	
Turbidity	2.1	See Guidelines	0.1	NTU	Sep-16-13	Sep-16-13	

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**General Parameters, Continued**

**Sample ID: Cherry Creek (at Hall) (3090888-03) [Water] Sampled: Sep-15-13 13:41**

Conductivity (EC)	272		2	uS/cm	N/A	Sep-16-13	
Nitrogen, Total Kjeldahl	0.11		0.05	mg/L	Sep-16-13	Sep-20-13	
pH	8.38	AO = 6.5 - 8.5	0.01	pH units	N/A	Sep-16-13	
Phosphorus, Total Kjeldahl	0.03		0.01	mg/L	Sep-16-13	Sep-20-13	
Phosphorus, Total Kjeldahl Dissolved	< 0.01		0.01	mg/L	Sep-16-13	Sep-20-13	
Turbidity	2.2	See Guidelines	0.1	NTU	Sep-16-13	Sep-16-13	

**Sample ID: Shuswap River (at Picnic Site) (3090888-04) [Water] Sampled: Sep-15-13 09:55**

Conductivity (EC)	104		2	uS/cm	N/A	Sep-16-13	
Nitrogen, Total Kjeldahl	0.14		0.05	mg/L	Sep-16-13	Sep-20-13	
pH	7.97	AO = 6.5 - 8.5	0.01	pH units	N/A	Sep-16-13	
Phosphorus, Total Kjeldahl	0.02		0.01	mg/L	Sep-16-13	Sep-20-13	
Phosphorus, Total Kjeldahl Dissolved	< 0.01		0.01	mg/L	Sep-16-13	Sep-20-13	
Turbidity	0.4	See Guidelines	0.1	NTU	Sep-16-13	Sep-16-13	

**Sample ID: Ferry Creek (3090888-05) [Water] Sampled: Sep-15-13 10:10**

Conductivity (EC)	314		2	uS/cm	N/A	Sep-16-13	
Nitrogen, Total Kjeldahl	0.17		0.05	mg/L	Sep-16-13	Sep-20-13	
pH	8.27	AO = 6.5 - 8.5	0.01	pH units	N/A	Sep-16-13	
Phosphorus, Total Kjeldahl	0.04		0.01	mg/L	Sep-16-13	Sep-20-13	
Phosphorus, Total Kjeldahl Dissolved	< 0.01		0.01	mg/L	Sep-16-13	Sep-20-13	
Turbidity	0.2	See Guidelines	0.1	NTU	Sep-16-13	Sep-16-13	

**Calculated Parameters**

**Sample ID: North Fork Cherry Creek (3090888-01) [Water] Sampled: Sep-15-13 15:06**

Nitrogen, Nitrate+Nitrite as N	0.016		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.139		0.050	mg/L	N/A	N/A	

**Sample ID: South Fork Cherry Creek (3090888-02) [Water] Sampled: Sep-15-13 14:18**

Nitrogen, Nitrate+Nitrite as N	0.050		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.176		0.050	mg/L	N/A	N/A	

**Sample ID: Cherry Creek (at Hall) (3090888-03) [Water] Sampled: Sep-15-13 13:41**

Nitrogen, Nitrate+Nitrite as N	0.012		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.126		0.050	mg/L	N/A	N/A	

**Sample ID: Shuswap River (at Picnic Site) (3090888-04) [Water] Sampled: Sep-15-13 09:55**

Nitrogen, Nitrate+Nitrite as N	< 0.010		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.135		0.050	mg/L	N/A	N/A	

**Sample ID: Ferry Creek (3090888-05) [Water] Sampled: Sep-15-13 10:10**

Nitrogen, Nitrate+Nitrite as N	0.019		0.010	mg/L	N/A	N/A	
Nitrogen, Total	0.193		0.050	mg/L	N/A	N/A	

**Microbiological Parameters**

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*Microbiological Parameters, Continued*

**Sample ID: North Fork Cherry Creek (3090888-01) [Water] Sampled: Sep-15-13 15:06**

E. coli	4	MAC < 1	1	CFU/100mL	Sep-16-13	Sep-17-13	
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**Sample ID: South Fork Cherry Creek (3090888-02) [Water] Sampled: Sep-15-13 14:18**

E. coli	1	MAC < 1	1	CFU/100mL	Sep-16-13	Sep-17-13	
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E. coli	7	MAC < 1	1	CFU/100mL	Sep-16-13	Sep-17-13	
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**Sample ID: Shuswap River (at Picnic Site) (3090888-04) [Water] Sampled: Sep-15-13 09:55**

E. coli	4	MAC < 1	1	CFU/100mL	Sep-16-13	Sep-17-13	
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**Sample ID: Ferry Creek (3090888-05) [Water] Sampled: Sep-15-13 10:10**

E. coli	8	MAC < 1	1	CFU/100mL	Sep-16-13	Sep-17-13	
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