

## CERTIFICATE OF ANALYSIS



**CLIENT** **Cherry Ridge Management**  
37 Hollingsworth Rd  
Cherryville BC TEL 1-250-547-9091  
V0E 2G2 FAX -

**ATTENTION** **Melanie Staker**

**RECEIVED / TEMP** Aug-16-10 09:00 / 12.0 °C **WORK ORDER** K0H0574  
**REPORTED** Aug-18-10 **PROJECT** Creek Monitoring  
**COC #(s)** 26274

### General Comments:

CARO Analytical Services employs methods which are based on those found in "Standard Methods for the Examination of Water and Wastewater", 21st Edition, 2005, published by the American Public Health Association (APHA); US EPA protocols found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846", 3rd Edition; and protocols published by the British Columbia Ministry of Environment (BCMOE).

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done 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 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.

- All solids results are reported on a dry weight basis unless otherwise noted
- Units:
  - mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
  - mg/L = milligrams per litre, equivalent to parts per million (ppm)
  - ug/L = micrograms per litre, equivalent to parts per billion (ppb)
  - ug/g = micrograms per gram, equivalent to parts per million (ppm)
  - ug/m<sup>3</sup> = micrograms per cubic meter of air
- "RDL" Reported detection limit
- "<" Less than reported detection limit
- "AO" Aesthetic objective
- "MAC" Maximum acceptable concentration (health-related guideline)
- "LAB" RMD = CARO - Richmond location, KEL = CARO - Kelowna location, SUB = Subcontracted

Please contact CARO if more information is needed.

### CARO Analytical Services

Final Review Per:

**Sarah Speier, B.Sc.**  
Administration Coordinator (Acting)

**SAMPLE DATA**



**CLIENT** Cherry Ridge Management  
**PROJECT** Creek Monitoring

**WORK ORDER #** KOH0574  
**REPORTED** Aug-18-10

Analyte	Result	RDL	Units	Analyzed	Method	Lab	Notes
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**General Parameters**

**South Fork Cherry Creek (KOH0574-01) Matrix: Water Sampled: Aug-15-10 13:45**

Nitrogen, Ammonia as N	<0.02	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	<b>0.11</b>	0.01	mg/L	Aug-16-10	Calc	KEL	
Nitrogen, Nitrate as N	<b>0.11</b>	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	<b>0.14</b>	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	<b>0.25</b>	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	<b>0.03</b>	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	<0.01	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	<b>0.3</b>	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**North Fork - Cherry Creek (KOH0574-02) Matrix: Water Sampled: Aug-15-10 14:17**

Nitrogen, Ammonia as N	<0.02	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	<b>0.07</b>	0.01	mg/L	Aug-16-10	Calc	KEL	
Nitrogen, Nitrate as N	<b>0.07</b>	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	<b>0.14</b>	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	<b>0.21</b>	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	<b>0.02</b>	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	<b>0.01</b>	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	<b>0.2</b>	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**South Fork Cherry Creek - Hank's (KOH0574-03) Matrix: Water Sampled: Aug-15-10 14:37**

Nitrogen, Ammonia as N	<b>0.03</b>	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	<b>0.10</b>	0.01	mg/L	Aug-16-10	Calc	KEL	
Nitrogen, Nitrate as N	<b>0.10</b>	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	<b>0.24</b>	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	<b>0.34</b>	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	<b>0.03</b>	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	<0.01	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	<b>0.4</b>	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**North Fork Cherry Creek - Hank's (KOH0574-04) Matrix: Water Sampled: Aug-15-10 14:32**

Nitrogen, Ammonia as N	<0.02	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	<b>0.06</b>	0.01	mg/L	Aug-16-10	Calc	KEL	
Nitrogen, Nitrate as N	<b>0.06</b>	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	<b>0.21</b>	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	<b>0.27</b>	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	<b>0.03</b>	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	<b>0.02</b>	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	<b>0.2</b>	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**Picnic Site - Shuswap River (KOH0574-05) Matrix: Water Sampled: Aug-15-10 10:30**

Nitrogen, Ammonia as N	<0.02	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	<b>0.03</b>	0.01	mg/L	Aug-16-10	Calc	KEL	

**SAMPLE DATA**



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Analyte	Result	RDL	Units	Analyzed	Method	Lab	Notes
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**General Parameters, Continued**

**Picnic Site - Shuswap River (KOH0574-05) Matrix: Water Sampled: Aug-15-10 10:30, Continued**

Nitrogen, Nitrate as N	0.03	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.18	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	0.20	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	0.02	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	0.02	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	0.4	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**Ferry Creek (KOH0574-06) Matrix: Water Sampled: Aug-15-10 10:50**

Nitrogen, Ammonia as N	<0.02	0.02	mg/L	Aug-16-10	APHA 4500-NH3 G	KEL	
Nitrogen, Nitrate+Nitrite as N	0.08	0.01	mg/L	Aug-16-10	Calc	KEL	
Nitrogen, Nitrate as N	0.08	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Nitrite as N	<0.01	0.01	mg/L	Aug-16-10	APHA 4110 B	KEL	
Nitrogen, Total Kjeldahl	0.16	0.05	mg/L	Aug-17-10	APHA 4500-N D	KEL	
Nitrogen, Total	0.24	0.05	mg/L	Aug-17-10	Calc	KEL	
Phosphorus, Total	0.02	0.01	mg/L	Aug-17-10	APHA 4500P:B.5/E	KEL	
Phosphorus, Dissolved	0.02	0.01	mg/L	Aug-18-10	APHA 4500-P F	KEL	
Turbidity	0.3	0.1	NTU	Aug-16-10	APHA 2130 B	KEL	

**Microbiological Parameters**

**South Fork Cherry Creek (KOH0574-01) Matrix: Water Sampled: Aug-15-10 13:45**

E. coli	1	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	
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**North Fork - Cherry Creek (KOH0574-02) Matrix: Water Sampled: Aug-15-10 14:17**

E. coli	2	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	
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**South Fork Cherry Creek - Hank's (KOH0574-03) Matrix: Water Sampled: Aug-15-10 14:37**

E. coli	Overgrown with	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	MIC13
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**North Fork Cherry Creek - Hank's (KOH0574-04) Matrix: Water Sampled: Aug-15-10 14:32**

E. coli	4	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	
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**Picnic Site - Shuswap River (KOH0574-05) Matrix: Water Sampled: Aug-15-10 10:30**

Coliforms, Fecal	17	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	
E. coli	17	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	

**Ferry Creek (KOH0574-06) Matrix: Water Sampled: Aug-15-10 10:50**

E. coli	5	1	CFU/100mL	Aug-17-10	APHA 9222	KEL	
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**Sample Qualifiers:**

MIC13 Overgrown; E. coli was detected.