

**REPORTED TO** Cherry Ridge Management  
158 North Fork Road  
Cherryville, BC V0E 2G3

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

**ATTENTION** Melanie Staker

**WORK ORDER** 7052309

**PO NUMBER**

**RECEIVED / TEMP** 2017-05-29 09:15 / 5°C

**PROJECT** Creek Monitoring

**REPORTED** 2017-06-05

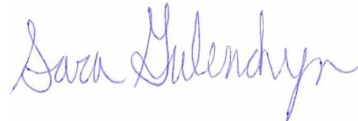
**PROJECT INFO**

**COC NUMBER** 40837.5581

**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.



Authorized By:

**Sara Gulenchyn, B.Sc, P.Chem.**  
Client Service Coordinator

*If you have any questions or concerns, please contact me at [sgulenchyn@caro.ca](mailto:sgulenchyn@caro.ca)*

**Locations:**

#110 4011 Viking Way  
Richmond, BC V6V 2K9  
Tel: 604-279-1499

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Kelowna, BC V1X 5C3  
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Creek Monitoring

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Analysis Description	Method Reference	Technique	Location
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Conductivity in Water	APHA 2510 B	Conductivity Meter	Kelowna
Dissolved Metals by ICPMS in Water	APHA 3030 B / APHA 3125 B	0.45 µm Filtration / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
E. coli (MF-NA+MUG) in Water	APHA 9222 G	Membrane Filtration / Nutrient Agar with MUG	Kelowna
Hardness (as CaCO <sub>3</sub> ) in Water	APHA 2340 B*	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Estimated)	N/A
Nitrogen, Total Kjeldahl in Water	APHA 4500-Norg D*	Block Digestion and Flow Injection Analysis	Kelowna
pH in Water	APHA 4500-H+ B	Electrometry	Kelowna
Phosphorus, Total by Colorimetry in Water	APHA 4500-P B.5* / APHA 4500-P F	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Phosphorus, Total Dissolved by Colorimetry in Water	APHA 4500-P B.5* / APHA 4500-P F	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Total Metals by ICPMS in Water	APHA 3030 E* / APHA 3125 B	HNO <sub>3</sub> +HCl Hot Block Digestion / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Richmond
Turbidity in Water	APHA 2130 B	Nephelometry	Kelowna

**Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method**

**Method Reference Descriptions:**

APHA Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association/American Water Works Association/Water Environment Federation

**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 based)
OG	Operational guideline (treated water)
CFU/100 mL	Colony Forming Units per 100 millilitres
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
pH units	pH < 7 = acidic, pH > 7 = basic
µg/L	Micrograms per litre
µS/cm	Microsiemens per centimetre

**Standards / Guidelines Referenced in this Report:**

Guidelines for Canadian Drinking Water Quality (Feb 2017)

Website: [http://www.hc-sc.gc.ca/ewh-semt/alt\\_formats/pdf/pubs/water-eau/sum\\_guide-res\\_recom/sum\\_guide-res\\_recom-eng.pdf](http://www.hc-sc.gc.ca/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/sum_guide-res_recom-eng.pdf)

**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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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: North Fork Cherry Creek (7052309-01) [Water] Sampled: 2017-05-28 10:42

FILT,  
PRES

**Anions**

Chloride	< 0.10	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	<b>0.039</b>	MAC = 10	0.010	mg/L	N/A	2017-05-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-05-30	
Sulfate	<b>4.7</b>	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

**General Parameters**

Conductivity (EC)	<b>84.7</b>	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	<b>0.200</b>	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	<b>7.70</b>	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	<b>0.0404</b>	N/A	0.0020	mg/L	2017-06-01	2017-06-02	
Phosphorus, Total Dissolved	<b>0.0030</b>	N/A	0.0020	mg/L	2017-06-01	2017-06-02	
Turbidity	<b>7.38</b>	OG < 0.1	0.10	NTU	N/A	2017-05-29	

**Calculated Parameters**

Hardness, Total (as CaCO3)	<b>37.8</b>	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	<b>0.0389</b>	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	<b>0.239</b>	N/A	0.0500	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	<b>27.3</b>	N/A	1.0	µg/L	N/A	2017-06-01	
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**Total Metals**

Aluminum, total	<b>596</b>	OG < 100	1.0	µg/L	2017-05-31	2017-05-31	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2017-05-31	2017-05-31	
Arsenic, total	<b>0.283</b>	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Barium, total	<b>14.1</b>	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	<b>0.018</b>	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Boron, total	<b>10.7</b>	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	<b>0.0484</b>	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	<b>12500</b>	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	<b>2.28</b>	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	<b>0.504</b>	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	<b>2.32</b>	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	<b>854</b>	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	<b>0.319</b>	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	<b>1.10</b>	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	<b>1560</b>	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	<b>20.7</b>	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	
Mercury, total	< 0.01	MAC = 1	0.01	µg/L	2017-05-31	2017-05-31	CT5
Molybdenum, total	<b>0.808</b>	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	<b>1.97</b>	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	<b>45</b>	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	<b>733</b>	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	<b>0.74</b>	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	<b>3980</b>	N/A	50	µg/L	2017-05-31	2017-05-31	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: North Fork Cherry Creek (7052309-01) [Water] Sampled: 2017-05-28 10:42, Continued**

FILT,  
PRES

**Total Metals, Continued**

Silver, total	0.020	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	741	AO ≤ 200000	10	µg/L	2017-05-31	2017-05-31	
Strontium, total	63.9	N/A	0.10	µg/L	2017-05-31	2017-05-31	
Sulfur, total	1500	N/A	1000	µg/L	2017-05-31	2017-05-31	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Thallium, total	0.0099	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	0.033	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	33.1	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	0.215	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	2.24	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	4.3	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	0.195	N/A	0.020	µg/L	2017-05-31	2017-05-31	

**Microbiological Parameters**

E. coli	3	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
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**Sample ID: South Fork Cherry Creek (7052309-02) [Water] Sampled: 2017-05-28 11:20**

FILT,  
PRESa

**General Parameters**

Nitrogen, Total Kjeldahl	0.263	N/A	0.050	mg/L	2017-06-01	2017-06-02	
Phosphorus, Total (as P)	0.0521	N/A	0.0020	mg/L	2017-06-01	2017-06-05	

**Calculated Parameters**

Hardness, Total (as CaCO <sub>3</sub> )	65.2	N/A	0.100	mg/L	N/A	N/A	
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**Total Metals**

Aluminum, total	628	OG < 100	1.0	µg/L	2017-05-31	2017-05-31	
Antimony, total	0.147	MAC = 6	0.050	µg/L	2017-05-31	2017-05-31	
Arsenic, total	1.22	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Barium, total	18.7	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	0.021	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Boron, total	5.8	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	0.0827	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	21100	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	1.67	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	0.588	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	2.49	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	1090	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	0.529	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	1.44	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	3010	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	34.1	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: South Fork Cherry Creek (7052309-02) [Water] Sampled: 2017-05-28 11:20, Continued**

FILT,  
PRESa

**Total Metals, Continued**

Mercury, total	< 0.01	MAC = 1	0.01	µg/L	2017-05-31	2017-05-31	CT5
Molybdenum, total	<b>0.891</b>	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	<b>1.83</b>	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	<b>44</b>	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	<b>583</b>	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	<b>1.10</b>	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	<b>4460</b>	N/A	50	µg/L	2017-05-31	2017-05-31	
Silver, total	<b>0.033</b>	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	<b>1230</b>	AO ≤ 200000	10	µg/L	2017-05-31	2017-05-31	
Strontium, total	<b>117</b>	N/A	0.10	µg/L	2017-05-31	2017-05-31	
Sulfur, total	<b>2500</b>	N/A	1000	µg/L	2017-05-31	2017-05-31	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Thallium, total	<b>0.0100</b>	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	<b>0.039</b>	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	<b>24.4</b>	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	<b>0.317</b>	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	<b>2.10</b>	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	<b>7.3</b>	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	<b>0.383</b>	N/A	0.020	µg/L	2017-05-31	2017-05-31	

**Microbiological Parameters**

E. coli	<b>2</b>	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
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**Sample ID: Cherry Creek at Hall (7052309-03) [Water] Sampled: 2017-05-28 12:40**

FILT,  
PRESa

**Anions**

Chloride	<b>0.79</b>	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	<b>0.089</b>	MAC = 10	0.010	mg/L	N/A	2017-05-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-05-30	
Sulfate	<b>7.3</b>	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

**General Parameters**

Conductivity (EC)	<b>133</b>	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	<b>0.153</b>	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	<b>7.86</b>	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	<b>0.0739</b>	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	<b>0.0024</b>	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	<b>28.8</b>	OG < 0.1	0.10	NTU	N/A	2017-05-29	

**Calculated Parameters**

Hardness, Total (as CaCO3)	<b>60.4</b>	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	<b>0.0888</b>	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	<b>0.242</b>	N/A	0.0500	mg/L	N/A	N/A	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Cherry Creek at Hall (7052309-03) [Water] Sampled: 2017-05-28 12:40, Continued**

FILT,  
PRESa

**Dissolved Metals**

Aluminum, dissolved	18.5	N/A	1.0	µg/L	N/A	2017-06-01	
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**Total Metals**

Aluminum, total	1130	OG < 100	1.0	µg/L	2017-05-31	2017-05-31	
Antimony, total	0.125	MAC = 6	0.050	µg/L	2017-05-31	2017-05-31	
Arsenic, total	1.12	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Barium, total	21.8	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	0.032	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Bismuth, total	0.014	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Boron, total	4.6	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	0.0885	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	18700	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	3.12	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	0.934	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	4.05	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	1850	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	0.746	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	1.93	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	3300	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	47.1	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	
Mercury, total	< 0.01	MAC = 1	0.01	µg/L	2017-05-31	2017-05-31	CT5
Molybdenum, total	0.885	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	3.30	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	67	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	1120	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	0.94	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	5560	N/A	50	µg/L	2017-05-31	2017-05-31	
Silver, total	0.030	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	1470	AO ≤ 200000	10	µg/L	2017-05-31	2017-05-31	
Strontium, total	106	N/A	0.10	µg/L	2017-05-31	2017-05-31	
Sulfur, total	2300	N/A	1000	µg/L	2017-05-31	2017-05-31	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Thallium, total	0.0164	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	0.083	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	0.066	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	56.8	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	0.319	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	3.73	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	12.9	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	0.131	N/A	0.020	µg/L	2017-05-31	2017-05-31	

**Microbiological Parameters**

E. coli	4	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
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2017-06-05

Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Shuswap River Picnic Site (7052309-04) [Water] Sampled: 2017-05-28 10:15**

FILT,  
PRES

**Anions**

Chloride	0.39	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.080	MAC = 10	0.010	mg/L	N/A	2017-05-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-05-30	
Sulfate	4.3	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

**General Parameters**

Conductivity (EC)	82.2	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.120	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	7.64	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.0325	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	< 0.0020	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	12.2	OG < 0.1	0.10	NTU	N/A	2017-05-29	

**Calculated Parameters**

Hardness, Total (as CaCO3)	33.9	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0801	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.200	N/A	0.0500	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	24.4	N/A	1.0	µg/L	N/A	2017-06-01	
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**Total Metals**

Aluminum, total	515	OG < 100	1.0	µg/L	2017-05-31	2017-05-31	
Antimony, total	0.060	MAC = 6	0.050	µg/L	2017-05-31	2017-05-31	
Arsenic, total	0.414	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Barium, total	12.4	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	0.021	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Boron, total	3.2	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	0.0364	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	11000	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	1.30	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	0.386	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	1.79	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	791	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	0.302	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	0.920	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	1560	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	22.7	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	
Mercury, total	< 0.01	MAC = 1	0.01	µg/L	2017-05-31	2017-05-31	CT5
Molybdenum, total	0.506	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	1.31	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	28	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	732	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	0.35	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	4080	N/A	50	µg/L	2017-05-31	2017-05-31	

**REPORTED TO PROJECT** Cherry Ridge Management  
Creek Monitoring

**WORK ORDER REPORTED** 7052309  
2017-06-05

Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Shuswap River Picnic Site (7052309-04) [Water] Sampled: 2017-05-28 10:15, Continued**

FILT,  
PRES

**Total Metals, Continued**

Silver, total	0.014	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	909	AO ≤ 200000	10	µg/L	2017-05-31	2017-05-31	
Strontium, total	48.9	N/A	0.10	µg/L	2017-05-31	2017-05-31	
Sulfur, total	1300	N/A	1000	µg/L	2017-05-31	2017-05-31	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Thallium, total	0.0087	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	0.045	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	24.1	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	0.334	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	1.70	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	4.1	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	0.117	N/A	0.020	µg/L	2017-05-31	2017-05-31	

**Microbiological Parameters**

E. coli	7	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
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**Sample ID: Ferry Creek (7052309-05) [Water] Sampled: 2017-05-28 10:50**

FILT,  
PRES

**Anions**

Chloride	0.15	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.021	MAC = 10	0.010	mg/L	N/A	2017-05-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	N/A	2017-05-30	
Sulfate	3.4	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

**General Parameters**

Conductivity (EC)	56.0	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.259	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	7.42	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.139	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0061	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	25.0	OG < 0.1	0.10	NTU	N/A	2017-05-29	

**Calculated Parameters**

Hardness, Total (as CaCO <sub>3</sub> )	27.1	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0206	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.280	N/A	0.0500	mg/L	N/A	N/A	

**Dissolved Metals**

Aluminum, dissolved	79.7	N/A	1.0	µg/L	N/A	2017-06-01	
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**Total Metals**

Aluminum, total	1640	OG < 100	1.0	µg/L	2017-05-31	2017-05-31	
Antimony, total	0.066	MAC = 6	0.050	µg/L	2017-05-31	2017-05-31	
Arsenic, total	0.929	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	



**REPORTED TO PROJECT** Cherry Ridge Management  
Creek Monitoring

**WORK ORDER REPORTED** 7052309  
2017-06-05

Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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**Sample ID: Ferry Creek (7052309-05) [Water] Sampled: 2017-05-28 10:50, Continued**

FILT,  
PRES

**Total Metals, Continued**

Barium, total	22.4	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	0.056	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Bismuth, total	0.012	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Boron, total	3.2	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	0.0374	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	7270	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	2.35	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	1.30	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	3.31	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	2640	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	0.662	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	1.87	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	2180	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	84.0	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	
Mercury, total	0.01	MAC = 1	0.01	µg/L	2017-05-31	2017-05-31	CT5
Molybdenum, total	0.277	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	2.48	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	112	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	904	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	0.18	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	7450	N/A	50	µg/L	2017-05-31	2017-05-31	
Silver, total	0.020	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	1530	AO ≤ 200000	10	µg/L	2017-05-31	2017-05-31	
Strontium, total	50.7	N/A	0.10	µg/L	2017-05-31	2017-05-31	
Sulfur, total	1000	N/A	1000	µg/L	2017-05-31	2017-05-31	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Thallium, total	0.0176	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	0.121	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	89.8	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	0.344	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	4.76	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	11.0	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	0.735	N/A	0.020	µg/L	2017-05-31	2017-05-31	

**Microbiological Parameters**

E. coli	2	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
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**REPORTED TO** Cherry Ridge Management  
**PROJECT** Creek Monitoring

**WORK ORDER** 7052309  
**REPORTED** 2017-06-05

**Sample / Analysis Qualifiers:**

CT5 This sample has been incorrectly preserved for Mercury analysis  
FILT Sample has been filtered for DP, AI in the laboratory.  
HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.  
PRES Sample has been preserved for DP, AI in the laboratory and the holding time has been extended.  
PRESa Sample has been preserved for DP, AI in the laboratory and the holding time has been extended.