



CERTIFICATE OF ANALYSIS

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

ATTENTION Melanie Staker

PO NUMBER

PROJECT Creek Monitoring

PROJECT INFO

WORK ORDER 9110064

RECEIVED / TEMP 2019-11-18 08:48 / 5°C

REPORTED 2019-12-05 19:10

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 17025:2005 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.

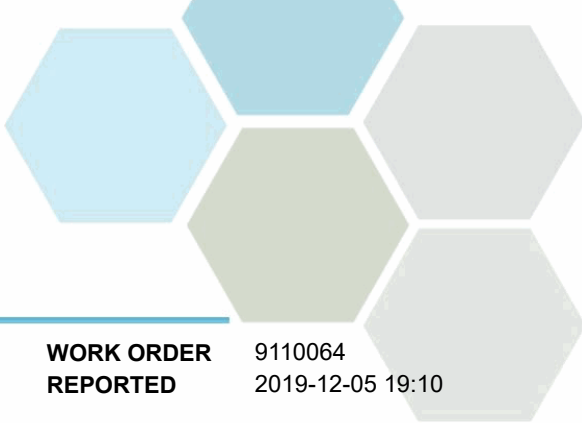
If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

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#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7



TEST RESULTS

REPORTED TO PROJECT Cherry Ridge Management Creek Monitoring

WORK ORDER REPORTED 9110064
2019-12-05 19:10

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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North Fork Cherry Creek (9110064-01) | Matrix: Water | Sampled: 2019-11-17 11:30

F1, F2,
FILT,
PRES

Anions

Chloride	0.12	AO ≤ 250	0.10	mg/L	2019-11-18	
Nitrate (as N)	0.021	MAC = 10	0.010	mg/L	2019-11-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-11-18	
Sulfate	8.0	AO ≤ 500	1.0	mg/L	2019-11-18	

Calculated Parameters

Hardness, Total (as CaCO3)	70.9	None Required	0.100	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0209	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.334	N/A	0.0500	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	10.9	N/A	1.0	µg/L	2019-12-04	
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General Parameters

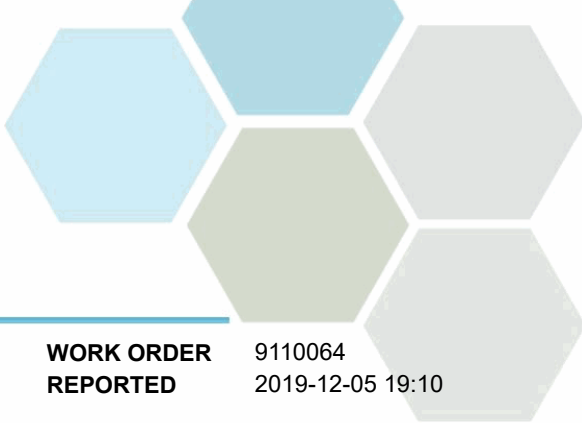
Conductivity (EC)	136	N/A	2.0	µS/cm	2019-11-19	
Nitrogen, Total Kjeldahl	0.313	N/A	0.050	mg/L	2019-11-19	
pH	7.83	7.0-10.5	0.10	pH units	2019-11-19	HT2
Phosphorus, Total (as P)	0.0904	N/A	0.0020	mg/L	2019-11-20	
Phosphorus, Total Dissolved	0.0061	N/A	0.0020	mg/L	2019-11-20	
Turbidity	31.9	OG < 1	0.10	NTU	2019-11-18	

Microbiological Parameters

Coliforms, Total	579	N/A	1.0	MPN/100 mL	2019-11-18	
E. coli	3.1	N/A	1.0	MPN/100 mL	2019-11-18	

Total Metals

Aluminum, total	1240	OG < 100	2.0	µg/L	2019-11-27	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2019-11-27	
Arsenic, total	0.578	MAC = 10	0.050	µg/L	2019-11-27	
Barium, total	28.6	MAC = 1000	0.10	µg/L	2019-11-27	
Beryllium, total	0.052	N/A	0.010	µg/L	2019-11-27	
Bismuth, total	0.017	N/A	0.010	µg/L	2019-11-27	
Boron, total	35.8	MAC = 5000	2.0	µg/L	2019-11-27	
Cadmium, total	0.0808	MAC = 5	0.0020	µg/L	2019-11-27	
Calcium, total	23100	N/A	40	µg/L	2019-11-27	
Chromium, total	4.60	MAC = 50	0.10	µg/L	2019-11-27	
Cobalt, total	1.01	N/A	0.0050	µg/L	2019-11-27	
Copper, total	4.29	MAC = 2000	0.20	µg/L	2019-11-27	
Iron, total	1920	AO ≤ 300	2.0	µg/L	2019-11-27	
Lead, total	0.677	MAC = 5	0.050	µg/L	2019-11-27	
Lithium, total	2.25	N/A	0.050	µg/L	2019-11-27	
Magnesium, total	3190	N/A	5.0	µg/L	2019-11-27	
Manganese, total	44.0	MAC = 120	0.050	µg/L	2019-11-27	



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2019-12-05 19:10

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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North Fork Cherry Creek (9110064-01) | Matrix: Water | Sampled: 2019-11-17 11:30, Continued

F1, F2,
FILT,
PRES

Total Metals, Continued

Molybdenum, total	2.24	N/A	0.010	µg/L	2019-11-27	
Nickel, total	3.93	N/A	0.040	µg/L	2019-11-27	
Phosphorus, total	58	N/A	10	µg/L	2019-11-27	
Potassium, total	1400	N/A	10	µg/L	2019-11-27	
Selenium, total	1.14	MAC = 50	0.10	µg/L	2019-11-27	
Silicon, total	7340	N/A	100	µg/L	2019-11-27	
Silver, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Sodium, total	1180	AO ≤ 200000	20	µg/L	2019-11-27	
Strontium, total	134	7000	0.10	µg/L	2019-11-27	
Sulfur, total	2100	N/A	1000	µg/L	2019-11-27	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Thallium, total	0.0226	N/A	0.0040	µg/L	2019-11-27	
Thorium, total	0.062	N/A	0.010	µg/L	2019-11-27	
Tin, total	0.067	N/A	0.050	µg/L	2019-11-27	
Titanium, total	82.3	N/A	0.20	µg/L	2019-11-27	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Uranium, total	0.427	MAC = 20	0.0010	µg/L	2019-11-27	
Vanadium, total	4.75	N/A	0.20	µg/L	2019-11-27	
Zinc, total	7.3	AO ≤ 5000	1.0	µg/L	2019-11-27	
Zirconium, total	0.113	N/A	0.020	µg/L	2019-11-27	

Cherry Creek at Hall (9110064-02) | Matrix: Water | Sampled: 2019-11-17 11:55

F1, F2,
FILT,
PRES

Anions

Chloride	2.32	AO ≤ 250	0.10	mg/L	2019-11-18	
Nitrate (as N)	0.048	MAC = 10	0.010	mg/L	2019-11-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-11-18	
Sulfate	13.2	AO ≤ 500	1.0	mg/L	2019-11-18	

Calculated Parameters

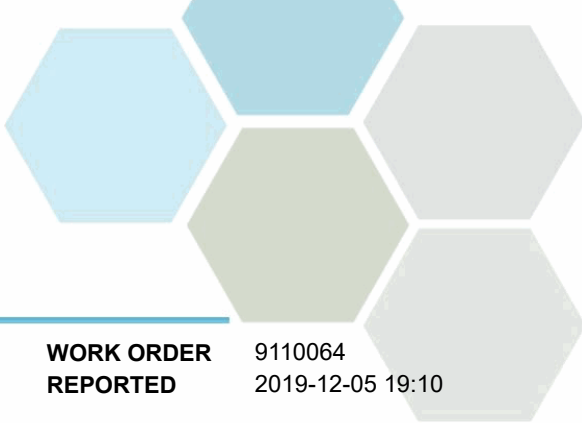
Hardness, Total (as CaCO3)	104	None Required	0.100	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0478	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.249	N/A	0.0500	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	1.2	N/A	1.0	µg/L	2019-12-04	
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General Parameters

Conductivity (EC)	198	N/A	2.0	µS/cm	2019-11-19	
Nitrogen, Total Kjeldahl	0.201	N/A	0.050	mg/L	2019-11-19	



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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Cherry Creek at Hall (9110064-02) | Matrix: Water | Sampled: 2019-11-17 11:55, Continued

F1, F2,
FILT,
PRES

General Parameters, Continued

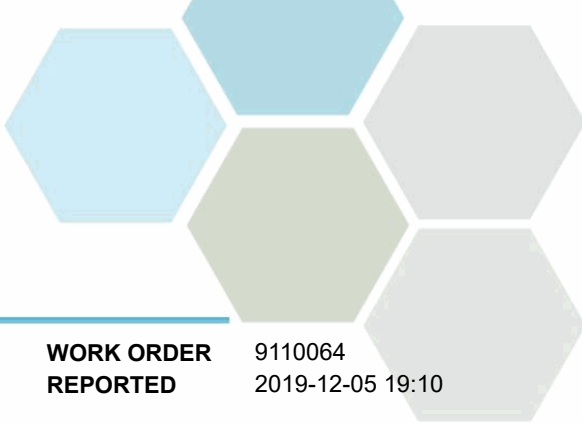
pH	8.00	7.0-10.5	0.10	pH units	2019-11-19	HT2
Phosphorus, Total (as P)	0.0302	N/A	0.0020	mg/L	2019-11-20	
Phosphorus, Total Dissolved	0.0050	N/A	0.0020	mg/L	2019-11-20	
Turbidity	6.89	OG < 1	0.10	NTU	2019-11-18	

Microbiological Parameters

Coliforms, Total	> 2420	N/A	1.0	MPN/100 mL	2019-11-18	
E. coli	25.9	N/A	1.0	MPN/100 mL	2019-11-18	

Total Metals

Aluminum, total	225	OG < 100	2.0	µg/L	2019-11-27	
Antimony, total	0.052	MAC = 6	0.050	µg/L	2019-11-27	
Arsenic, total	0.539	MAC = 10	0.050	µg/L	2019-11-27	
Barium, total	20.7	MAC = 1000	0.10	µg/L	2019-11-27	
Beryllium, total	0.017	N/A	0.010	µg/L	2019-11-27	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Boron, total	12.3	MAC = 5000	2.0	µg/L	2019-11-27	
Cadmium, total	0.0347	MAC = 5	0.0020	µg/L	2019-11-27	
Calcium, total	31600	N/A	40	µg/L	2019-11-27	
Chromium, total	0.96	MAC = 50	0.10	µg/L	2019-11-27	
Cobalt, total	0.215	N/A	0.0050	µg/L	2019-11-27	
Copper, total	1.15	MAC = 2000	0.20	µg/L	2019-11-27	
Iron, total	374	AO ≤ 300	2.0	µg/L	2019-11-27	
Lead, total	0.162	MAC = 5	0.050	µg/L	2019-11-27	
Lithium, total	1.44	N/A	0.050	µg/L	2019-11-27	
Magnesium, total	6050	N/A	5.0	µg/L	2019-11-27	
Manganese, total	13.3	MAC = 120	0.050	µg/L	2019-11-27	
Molybdenum, total	1.42	N/A	0.010	µg/L	2019-11-27	
Nickel, total	0.857	N/A	0.040	µg/L	2019-11-27	
Phosphorus, total	16	N/A	10	µg/L	2019-11-27	
Potassium, total	1030	N/A	10	µg/L	2019-11-27	
Selenium, total	1.34	MAC = 50	0.10	µg/L	2019-11-27	
Silicon, total	5670	N/A	100	µg/L	2019-11-27	
Silver, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Sodium, total	2520	AO ≤ 200000	20	µg/L	2019-11-27	
Strontium, total	228	7000	0.10	µg/L	2019-11-27	
Sulfur, total	3900	N/A	1000	µg/L	2019-11-27	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Thallium, total	0.0050	N/A	0.0040	µg/L	2019-11-27	
Thorium, total	0.015	N/A	0.010	µg/L	2019-11-27	
Tin, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Titanium, total	12.5	N/A	0.20	µg/L	2019-11-27	



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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Cherry Creek at Hall (9110064-02) Matrix: Water Sampled: 2019-11-17 11:55, Continued						F1, F2, FILT, PRES

Total Metals, Continued

Tungsten, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Uranium, total	0.593	MAC = 20	0.0010	µg/L	2019-11-27	
Vanadium, total	1.35	N/A	0.20	µg/L	2019-11-27	
Zinc, total	2.0	AO ≤ 5000	1.0	µg/L	2019-11-27	
Zirconium, total	0.451	N/A	0.020	µg/L	2019-11-27	

Shuswap River Picnic Site (9110064-03) | Matrix: Water | Sampled: 2019-11-17 10:32

F1, F2, FILT, PRES

Anions

Chloride	0.42	AO ≤ 250	0.10	mg/L	2019-11-18	
Nitrate (as N)	0.038	MAC = 10	0.010	mg/L	2019-11-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-11-18	
Sulfate	6.4	AO ≤ 500	1.0	mg/L	2019-11-18	

Calculated Parameters

Hardness, Total (as CaCO3)	50.6	None Required	0.100	mg/L	N/A	
Nitrate+Nitrite (as N)	0.0378	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.169	N/A	0.0500	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	5.3	N/A	1.0	µg/L	2019-12-04	
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General Parameters

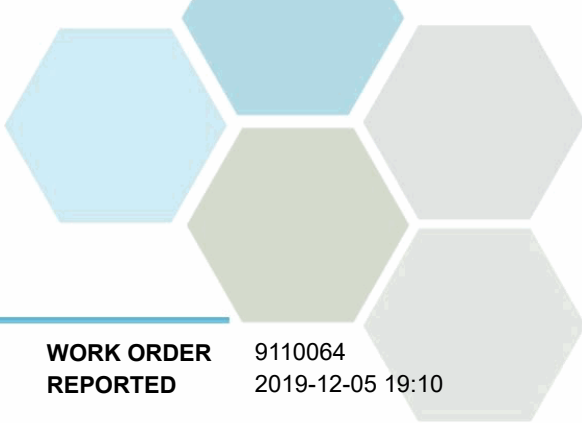
Conductivity (EC)	103	N/A	2.0	µS/cm	2019-11-19	
Nitrogen, Total Kjeldahl	0.131	N/A	0.050	mg/L	2019-11-19	
pH	7.70	7.0-10.5	0.10	pH units	2019-11-19	HT2
Phosphorus, Total (as P)	0.0074	N/A	0.0020	mg/L	2019-11-20	
Phosphorus, Total Dissolved	0.0032	N/A	0.0020	mg/L	2019-11-20	
Turbidity	0.96	OG < 1	0.10	NTU	2019-11-18	

Microbiological Parameters

Coliforms, Total	461	N/A	1.0	MPN/100 mL	2019-11-18	
E. coli	2.0	N/A	1.0	MPN/100 mL	2019-11-18	

Total Metals

Aluminum, total	27.6	OG < 100	2.0	µg/L	2019-11-27	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2019-11-27	
Arsenic, total	0.209	MAC = 10	0.050	µg/L	2019-11-27	
Barium, total	10.6	MAC = 1000	0.10	µg/L	2019-11-27	
Beryllium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2019-11-27	



TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Shuswap River Picnic Site (9110064-03) | Matrix: Water | Sampled: 2019-11-17 10:32, Continued

F1, F2,
FILT,
PRES

Total Metals, Continued

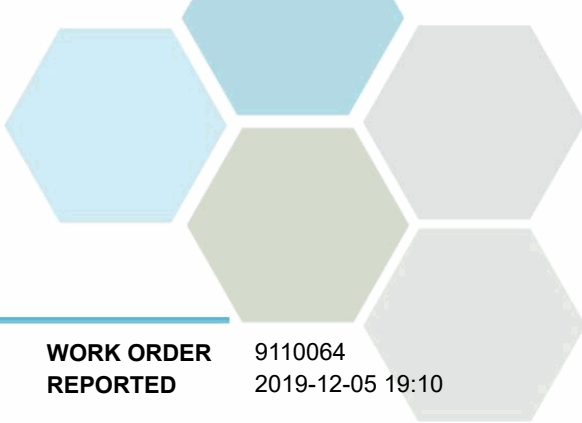
Boron, total	7.7	MAC = 5000	2.0	µg/L	2019-11-27	
Cadmium, total	0.0087	MAC = 5	0.0020	µg/L	2019-11-27	
Calcium, total	16600	N/A	40	µg/L	2019-11-27	
Chromium, total	0.30	MAC = 50	0.10	µg/L	2019-11-27	
Cobalt, total	0.0373	N/A	0.0050	µg/L	2019-11-27	
Copper, total	0.44	MAC = 2000	0.20	µg/L	2019-11-27	
Iron, total	56.0	AO ≤ 300	2.0	µg/L	2019-11-27	
Lead, total	< 0.050	MAC = 5	0.050	µg/L	2019-11-27	
Lithium, total	0.656	N/A	0.050	µg/L	2019-11-27	
Magnesium, total	2200	N/A	5.0	µg/L	2019-11-27	
Manganese, total	6.15	MAC = 120	0.050	µg/L	2019-11-27	
Molybdenum, total	0.810	N/A	0.010	µg/L	2019-11-27	
Nickel, total	0.273	N/A	0.040	µg/L	2019-11-27	
Phosphorus, total	< 10	N/A	10	µg/L	2019-11-27	
Potassium, total	848	N/A	10	µg/L	2019-11-27	
Selenium, total	0.54	MAC = 50	0.10	µg/L	2019-11-27	
Silicon, total	3760	N/A	100	µg/L	2019-11-27	
Silver, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Sodium, total	1230	AO ≤ 200000	20	µg/L	2019-11-27	
Strontium, total	87.8	7000	0.10	µg/L	2019-11-27	
Sulfur, total	2000	N/A	1000	µg/L	2019-11-27	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2019-11-27	
Thorium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Tin, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Titanium, total	1.35	N/A	0.20	µg/L	2019-11-27	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Uranium, total	0.399	MAC = 20	0.0010	µg/L	2019-11-27	
Vanadium, total	1.17	N/A	0.20	µg/L	2019-11-27	
Zinc, total	< 1.0	AO ≤ 5000	1.0	µg/L	2019-11-27	
Zirconium, total	0.059	N/A	0.020	µg/L	2019-11-27	

Ferry Creek (9110064-04) | Matrix: Water | Sampled: 2019-11-17 11:00

F1, F2,
FILT,
PRES

Anions

Chloride	0.82	AO ≤ 250	0.10	mg/L	2019-11-18	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2019-11-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-11-18	
Sulfate	19.4	AO ≤ 500	1.0	mg/L	2019-11-18	



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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Ferry Creek (9110064-04) | Matrix: Water | Sampled: 2019-11-17 11:00, Continued

F1, F2,
FILT,
PRES

Calculated Parameters

Hardness, Total (as CaCO3)	108	None Required	0.100	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0100	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	0.174	N/A	0.0500	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	11.3	N/A	1.0	µg/L	2019-12-04	
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General Parameters

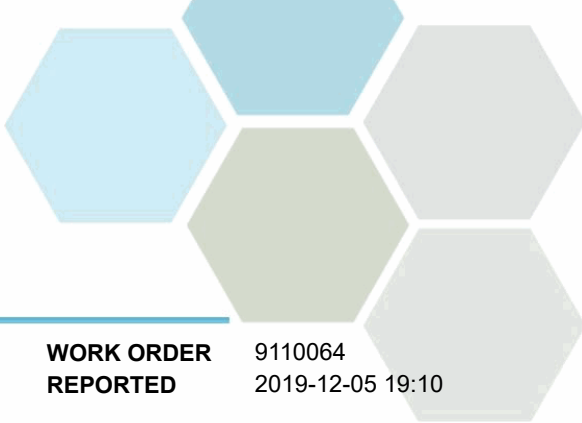
Conductivity (EC)	223	N/A	2.0	µS/cm	2019-11-19	
Nitrogen, Total Kjeldahl	0.174	N/A	0.050	mg/L	2019-11-19	
pH	8.02	7.0-10.5	0.10	pH units	2019-11-19	HT2
Phosphorus, Total (as P)	0.0119	N/A	0.0020	mg/L	2019-11-20	
Phosphorus, Total Dissolved	0.0090	N/A	0.0020	mg/L	2019-11-20	
Turbidity	0.56	OG < 1	0.10	NTU	2019-11-18	

Microbiological Parameters

E. coli	2	MAC = 0	1	CFU/100 mL	2019-11-18	
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Total Metals

Aluminum, total	28.8	OG < 100	2.0	µg/L	2019-11-27	
Antimony, total	< 0.050	MAC = 6	0.050	µg/L	2019-11-27	
Arsenic, total	0.754	MAC = 10	0.050	µg/L	2019-11-27	
Barium, total	14.5	MAC = 1000	0.10	µg/L	2019-11-27	
Beryllium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Boron, total	6.7	MAC = 5000	2.0	µg/L	2019-11-27	
Cadmium, total	0.0036	MAC = 5	0.0020	µg/L	2019-11-27	
Calcium, total	30600	N/A	40	µg/L	2019-11-27	
Chromium, total	0.30	MAC = 50	0.10	µg/L	2019-11-27	
Cobalt, total	0.0377	N/A	0.0050	µg/L	2019-11-27	
Copper, total	0.49	MAC = 2000	0.20	µg/L	2019-11-27	
Iron, total	52.2	AO ≤ 300	2.0	µg/L	2019-11-27	
Lead, total	< 0.050	MAC = 5	0.050	µg/L	2019-11-27	
Lithium, total	2.57	N/A	0.050	µg/L	2019-11-27	
Magnesium, total	7660	N/A	5.0	µg/L	2019-11-27	
Manganese, total	3.63	MAC = 120	0.050	µg/L	2019-11-27	
Molybdenum, total	2.15	N/A	0.010	µg/L	2019-11-27	
Nickel, total	0.230	N/A	0.040	µg/L	2019-11-27	
Phosphorus, total	10	N/A	10	µg/L	2019-11-27	
Potassium, total	1910	N/A	10	µg/L	2019-11-27	
Selenium, total	0.62	MAC = 50	0.10	µg/L	2019-11-27	
Silicon, total	8720	N/A	100	µg/L	2019-11-27	



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2019-12-05 19:10

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Ferry Creek (9110064-04) | Matrix: Water | Sampled: 2019-11-17 11:00, Continued

F1, F2,
FILT,
PRES

Total Metals, Continued

Silver, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Sodium, total	4200	AO ≤ 200000	20	µg/L	2019-11-27	
Strontium, total	218	7000	0.10	µg/L	2019-11-27	
Sulfur, total	5900	N/A	1000	µg/L	2019-11-27	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2019-11-27	
Thorium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Tin, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Titanium, total	1.30	N/A	0.20	µg/L	2019-11-27	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Uranium, total	0.747	MAC = 20	0.0010	µg/L	2019-11-27	
Vanadium, total	1.00	N/A	0.20	µg/L	2019-11-27	
Zinc, total	< 1.0	AO ≤ 5000	1.0	µg/L	2019-11-27	
Zirconium, total	0.152	N/A	0.020	µg/L	2019-11-27	

1/2 Mile Creek (9110064-05) | Matrix: Water | Sampled: 2019-11-17 12:12

F1, F2,
FILT,
PRES

Anions

Chloride	0.31	AO ≤ 250	0.10	mg/L	2019-11-18	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2019-11-18	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2019-11-18	
Sulfate	30.1	AO ≤ 500	1.0	mg/L	2019-11-18	

Calculated Parameters

Hardness, Total (as CaCO3)	184	None Required	0.100	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0100	N/A	0.0100	mg/L	N/A	
Nitrogen, Total	< 0.0500	N/A	0.0500	mg/L	N/A	

Dissolved Metals

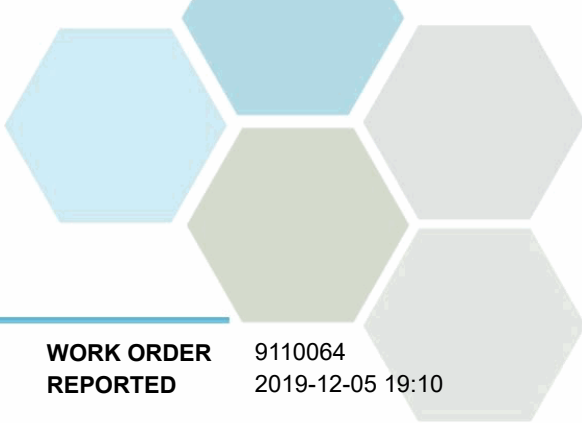
Aluminum, dissolved	1.2	N/A	1.0	µg/L	2019-12-04	
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General Parameters

Conductivity (EC)	351	N/A	2.0	µS/cm	2019-11-19	
Nitrogen, Total Kjeldahl	< 0.050	N/A	0.050	mg/L	2019-11-19	
pH	8.19	7.0-10.5	0.10	pH units	2019-11-19	HT2
Phosphorus, Total (as P)	0.0036	N/A	0.0020	mg/L	2019-11-20	
Phosphorus, Total Dissolved	0.0031	N/A	0.0020	mg/L	2019-11-20	
Turbidity	0.52	OG < 1	0.10	NTU	2019-11-18	

Microbiological Parameters

Coliforms, Total	42.2	N/A	1.0	MPN/100 mL	2019-11-18	
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TEST RESULTS

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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1/2 Mile Creek (9110064-05) | Matrix: Water | Sampled: 2019-11-17 12:12, Continued

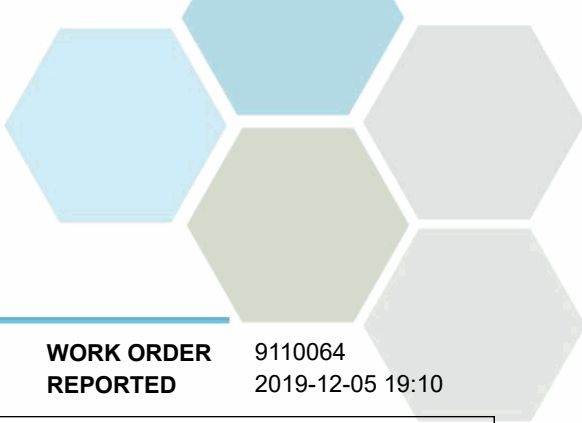
F1, F2,
FILT,
PRES

Microbiological Parameters, Continued

E. coli	< 1.0	N/A	1.0	MPN/100 mL	2019-11-18	
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Total Metals

Aluminum, total	4.0	OG < 100	2.0	µg/L	2019-11-27	
Antimony, total	0.129	MAC = 6	0.050	µg/L	2019-11-27	
Arsenic, total	0.729	MAC = 10	0.050	µg/L	2019-11-27	
Barium, total	15.9	MAC = 1000	0.10	µg/L	2019-11-27	
Beryllium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Boron, total	5.9	MAC = 5000	2.0	µg/L	2019-11-27	
Cadmium, total	0.0054	MAC = 5	0.0020	µg/L	2019-11-27	
Calcium, total	58200	N/A	40	µg/L	2019-11-27	
Chromium, total	0.28	MAC = 50	0.10	µg/L	2019-11-27	
Cobalt, total	0.0164	N/A	0.0050	µg/L	2019-11-27	
Copper, total	0.31	MAC = 2000	0.20	µg/L	2019-11-27	
Iron, total	3.5	AO ≤ 300	2.0	µg/L	2019-11-27	
Lead, total	< 0.050	MAC = 5	0.050	µg/L	2019-11-27	
Lithium, total	1.43	N/A	0.050	µg/L	2019-11-27	
Magnesium, total	9340	N/A	5.0	µg/L	2019-11-27	
Manganese, total	0.279	MAC = 120	0.050	µg/L	2019-11-27	
Molybdenum, total	1.09	N/A	0.010	µg/L	2019-11-27	
Nickel, total	0.099	N/A	0.040	µg/L	2019-11-27	
Phosphorus, total	< 10	N/A	10	µg/L	2019-11-27	
Potassium, total	1250	N/A	10	µg/L	2019-11-27	
Selenium, total	1.05	MAC = 50	0.10	µg/L	2019-11-27	
Silicon, total	7130	N/A	100	µg/L	2019-11-27	
Silver, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Sodium, total	2650	AO ≤ 200000	20	µg/L	2019-11-27	
Strontium, total	375	7000	0.10	µg/L	2019-11-27	
Sulfur, total	9100	N/A	1000	µg/L	2019-11-27	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Thallium, total	< 0.0040	N/A	0.0040	µg/L	2019-11-27	
Thorium, total	< 0.010	N/A	0.010	µg/L	2019-11-27	
Tin, total	< 0.050	N/A	0.050	µg/L	2019-11-27	
Titanium, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Tungsten, total	< 0.20	N/A	0.20	µg/L	2019-11-27	
Uranium, total	0.449	MAC = 20	0.0010	µg/L	2019-11-27	
Vanadium, total	0.72	N/A	0.20	µg/L	2019-11-27	
Zinc, total	< 1.0	AO ≤ 5000	1.0	µg/L	2019-11-27	
Zirconium, total	< 0.020	N/A	0.020	µg/L	2019-11-27	



TEST RESULTS

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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.
- F2 The sample was not field-preserved with HNO3 and was therefore preserved in the laboratory and held for at least 16 hours prior to analysis for total metals.
- FILT The sample has been filtered for DP 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 DP in the laboratory and the holding time has been extended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Cherry Ridge Management
Creek Monitoring

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Analysis Description	Method Ref.	Technique	Location
Anions in Water	SM 4110 B (2017)	Ion Chromatography	Kelowna
Coliforms, Total in Water	NA / SM 9223 (2017)	Quanti-Tray / Enzyme Substrate Endo Agar	Kelowna
Conductivity in Water	SM 2510 B (2017)	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 9222 G (2017)	Membrane Filtration / Nutrient Agar with MUG	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	N/A
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2017)	Block Digestion and Flow Injection Analysis	Kelowna
pH in Water	SM 4500-H+ B (2017)	Electrometry	Kelowna
Phosphorus, Total Dissolved in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2017)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Phosphorus, Total in Water	SM 4500-P B.5* (2011) / SM 4500-P F (2017)	Persulfate Digestion / Automated Colorimetry (Ascorbic Acid)	Kelowna
Total Metals in Water	EPA 200.2* / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	Richmond
Turbidity in Water	SM 2130 B (2017)	Nephelometry	Kelowna

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

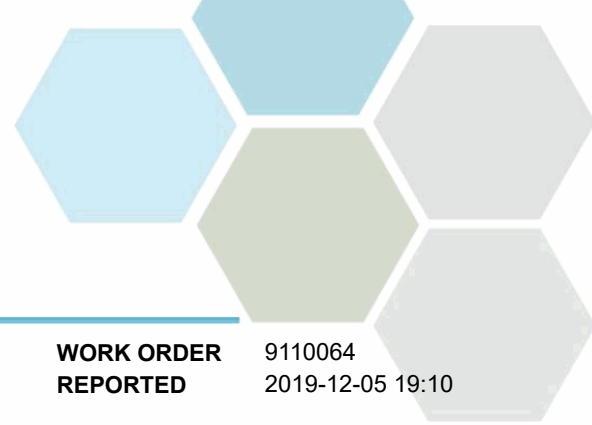
Glossary of Terms:

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
CFU/100 mL	Colony Forming Units per 100 millilitres
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
µg/L	Micrograms per litre
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 \(Health Canada, Feb 2017\)](#)

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



APPENDIX 1: SUPPORTING INFORMATION

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General Comments:

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. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. 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