

CERTIFICATE OF ANALYSIS

REPORTED TO Interior Health Authority - Kamloops
519 Columbia Street
Kamloops, BC V2C 2T8

ATTENTION Jessie Bhatti

PO NUMBER

PROJECT Comprehensive Testing 2018 (Jessie Bhatti)

PROJECT INFO 4980 River Road, Pritchard

WORK ORDER 8120202

RECEIVED / TEMP 2018-12-04 09:30 / 4°C

REPORTED 2018-12-11 15:08

COC NUMBER No Number

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 jnobrega@caro.ca

Authorized By:

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TEST RESULTS

REPORTED TO PROJECT Interior Health Authority - Kamloops
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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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Pritchard CWS, Pumphouse (8120202-01) | Matrix: Water | Sampled: 2018-12-03 11:45

Anions

Chloride	3.92	AO ≤ 250	0.10 mg/L	2018-12-06	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2018-12-06	
Nitrate (as N)	0.035	MAC = 10	0.010 mg/L	2018-12-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2018-12-06	
Sulfate	10.4	AO ≤ 500	1.0 mg/L	2018-12-06	

Calculated Parameters

Hardness, Total (as CaCO ₃)	40.3	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	35.0	AO ≤ 500	1.00 mg/L	N/A	

General Parameters

Alkalinity, Total (as CaCO ₃)	40.5	N/A	1.0 mg/L	2018-12-05	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2018-12-05	
Alkalinity, Bicarbonate (as CaCO ₃)	40.5	N/A	1.0 mg/L	2018-12-05	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2018-12-05	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2018-12-05	
Colour, True	< 5.0	AO ≤ 15	5.0 CU	2018-12-06	
Conductivity (EC)	110	N/A	2.0 µS/cm	2018-12-05	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2018-12-06	
Cation-Anion Balance	-100	N/A		2018-12-05	
pH	7.55	7.0-10.5	0.10 pH units	2018-12-05	HT2
Temperature, at pH	21.6	N/A	°C	2018-12-05	HT2
Turbidity	0.55	OG < 1	0.10 NTU	2018-12-06	

Total Metals

Aluminum, total	0.0115	OG < 0.1	0.0050 mg/L	2018-12-07	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2018-12-07	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2018-12-07	
Barium, total	0.0098	MAC = 1	0.0050 mg/L	2018-12-07	
Boron, total	0.0096	MAC = 5	0.0050 mg/L	2018-12-07	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010 mg/L	2018-12-07	
Calcium, total	12.1	None Required	0.20 mg/L	2018-12-07	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2018-12-07	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2018-12-07	
Copper, total	0.00435	AO ≤ 1	0.00040 mg/L	2018-12-07	
Iron, total	0.021	AO ≤ 0.3	0.010 mg/L	2018-12-07	
Lead, total	< 0.00020	MAC = 0.01	0.00020 mg/L	2018-12-07	
Magnesium, total	2.45	None Required	0.010 mg/L	2018-12-07	
Manganese, total	0.00330	AO ≤ 0.05	0.00020 mg/L	2018-12-07	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2018-12-09	
Molybdenum, total	0.00064	N/A	0.00010 mg/L	2018-12-07	
Nickel, total	0.00047	N/A	0.00040 mg/L	2018-12-07	
Potassium, total	0.78	N/A	0.10 mg/L	2018-12-07	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Pritchard CWS, Pumphouse (8120202-01) Matrix: Water Sampled: 2018-12-03 11:45, Continued						
<i>Total Metals, Continued</i>						
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2018-12-07	
Sodium, total	5.24	AO ≤ 200	0.10	mg/L	2018-12-07	
Strontium, total	0.0813	N/A	0.0010	mg/L	2018-12-07	
Uranium, total	0.000595	MAC = 0.02	0.000020	mg/L	2018-12-07	
Zinc, total	0.0102	AO ≤ 5	0.0040	mg/L	2018-12-07	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

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Analysis Description	Method Ref.	Technique	Location
Alkalinity in Water	SM 2320 B* (2011)	Titration with H ₂ SO ₄	Kelowna
Anions in Water	SM 4110 B (2011)	Ion Chromatography	Kelowna
Colour, True in Water	SM 2120 C (2011)	Spectrophotometry (456 nm)	Kelowna
Conductivity in Water	SM 2510 B (2011)	Conductivity Meter	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	Kelowna
Hardness in Water	SM 2340 B* (2011)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	N/A
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	Richmond
pH in Water	SM 4500-H+ B (2011)	Electrometry	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2011)	Calculation: 100 x ([Cations]-[Anions])/([Cations]+[Anions])	N/A
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 (2011)	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
°C	Degrees Celcius
AO	Aesthetic Objective
CU	Colour Units (referenced against a platinum cobalt standard)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

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.

APPENDIX 2: QUALITY CONTROL RESULTS

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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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Anions, Batch B8L0302

Blank (B8L0302-BLK1)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							

Blank (B8L0302-BLK2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							

LCS (B8L0302-BS1)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Chloride	15.9	0.10 mg/L	16.0		100	90-110			
Fluoride	4.00	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	3.96	0.010 mg/L	4.00		99	93-108			
Nitrite (as N)	2.01	0.010 mg/L	2.00		100	85-114			
Sulfate	16.1	1.0 mg/L	16.0		100	91-109			

LCS (B8L0302-BS2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Chloride	15.6	0.10 mg/L	16.0		97	90-110			
Fluoride	3.97	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.02	0.010 mg/L	4.00		101	93-108			
Nitrite (as N)	2.01	0.010 mg/L	2.00		101	85-114			
Sulfate	15.9	1.0 mg/L	16.0		100	91-109			

General Parameters, Batch B8L0345

Blank (B8L0345-BLK1)			Prepared: 2018-12-05, Analyzed: 2018-12-05						
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B8L0345, Continued									
Blank (B8L0345-BLK1), Continued				Prepared: 2018-12-05, Analyzed: 2018-12-05					
Conductivity (EC)	< 2.0	2.0	µS/cm						
Cation-Anion Balance	0.0		mg/L						
Blank (B8L0345-BLK2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0	mg/L						
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L						
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0	mg/L						
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L						
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L						
Conductivity (EC)	< 2.0	2.0	µS/cm						
Cation-Anion Balance	0.0		mg/L						
LCS (B8L0345-BS1)				Prepared: 2018-12-05, Analyzed: 2018-12-05					
Alkalinity, Total (as CaCO ₃)	103	1.0	mg/L	100	103	92-106			
LCS (B8L0345-BS2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Alkalinity, Total (as CaCO ₃)	103	1.0	mg/L	100	103	92-106			
LCS (B8L0345-BS3)				Prepared: 2018-12-05, Analyzed: 2018-12-05					
Conductivity (EC)	1400	2.0	µS/cm	1410	99	95-104			
LCS (B8L0345-BS4)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Conductivity (EC)	1410	2.0	µS/cm	1410	100	95-104			
Reference (B8L0345-SRM1)				Prepared: 2018-12-05, Analyzed: 2018-12-05					
pH	7.00	0.10	pH units	7.01	100	98-102			
Reference (B8L0345-SRM2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
pH	7.00	0.10	pH units	7.01	100	98-102			
General Parameters, Batch B8L0364									
Blank (B8L0364-BLK1)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Colour, True	< 5.0	5.0	CU						
Blank (B8L0364-BLK2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Colour, True	< 5.0	5.0	CU						
LCS (B8L0364-BS1)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Colour, True	20	5.0	CU	20.0	99	85-115			
LCS (B8L0364-BS2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Colour, True	20	5.0	CU	20.0	99	85-115			
General Parameters, Batch B8L0366									
Blank (B8L0366-BLK1)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Turbidity	< 0.10	0.10	NTU						
Blank (B8L0366-BLK2)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Turbidity	< 0.10	0.10	NTU						
LCS (B8L0366-BS1)				Prepared: 2018-12-06, Analyzed: 2018-12-06					
Turbidity	41.1	0.10	NTU	40.0	103	90-110			

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
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General Parameters, Batch B8L0366, Continued

LCS (B8L0366-BS2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Turbidity	41.0	0.10 NTU	40.0		102	90-110			

General Parameters, Batch B8L0367

Blank (B8L0367-BLK1)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	< 0.0020	0.0020 mg/L							
Blank (B8L0367-BLK2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	< 0.0020	0.0020 mg/L							
LCS (B8L0367-BS1)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	0.0184	0.0020 mg/L	0.0200		92	82-120			
LCS (B8L0367-BS2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	0.0185	0.0020 mg/L	0.0200		93	82-120			
LCS Dup (B8L0367-BSD1)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	0.0189	0.0020 mg/L	0.0200		94	82-120	3	10	
LCS Dup (B8L0367-BSD2)			Prepared: 2018-12-06, Analyzed: 2018-12-06						
Cyanide, Total	0.0188	0.0020 mg/L	0.0200		94	82-120	1	10	

Total Metals, Batch B8L0409

Blank (B8L0409-BLK1)			Prepared: 2018-12-06, Analyzed: 2018-12-09						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B8L0409-BLK2)			Prepared: 2018-12-06, Analyzed: 2018-12-09						
Mercury, total	< 0.000010	0.000010 mg/L							
Reference (B8L0409-SRM1)			Prepared: 2018-12-06, Analyzed: 2018-12-09						
Mercury, total	0.00491	0.000010 mg/L	0.00489		100	80-120			
Reference (B8L0409-SRM2)			Prepared: 2018-12-06, Analyzed: 2018-12-09						
Mercury, total	0.00454	0.000010 mg/L	0.00489		93	80-120			

Total Metals, Batch B8L0510

Blank (B8L0510-BLK1)			Prepared: 2018-12-07, Analyzed: 2018-12-07						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							

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Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8L0510, Continued									
Blank (B8L0510-BLK1), Continued				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Blank (B8L0510-BLK2)				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Blank (B8L0510-BLK3)				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							

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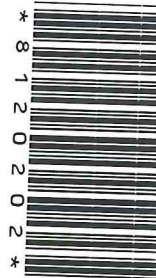
Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8L0510, Continued									
Blank (B8L0510-BLK4)				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Boron, total	< 0.0050	0.0050 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
LCS (B8L0510-BS1)				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Aluminum, total	0.0225	0.0050 mg/L	0.0200		112	80-120			
Antimony, total	0.0195	0.00020 mg/L	0.0200		97	80-120			
Arsenic, total	0.0204	0.00050 mg/L	0.0200		102	80-120			
Barium, total	0.0194	0.0050 mg/L	0.0200		97	80-120			
Boron, total	0.0196	0.0050 mg/L	0.0200		98	80-120			
Cadmium, total	0.0201	0.000010 mg/L	0.0200		100	80-120			
Calcium, total	1.88	0.20 mg/L	2.00		94	80-120			
Chromium, total	0.0203	0.00050 mg/L	0.0200		102	80-120			
Cobalt, total	0.0208	0.00010 mg/L	0.0200		104	80-120			
Copper, total	0.0212	0.00040 mg/L	0.0200		106	80-120			
Iron, total	1.91	0.010 mg/L	2.00		96	80-120			
Lead, total	0.0198	0.00020 mg/L	0.0200		99	80-120			
Magnesium, total	1.91	0.010 mg/L	2.00		95	80-120			
Manganese, total	0.0191	0.00020 mg/L	0.0200		96	80-120			
Molybdenum, total	0.0193	0.00010 mg/L	0.0200		97	80-120			
Nickel, total	0.0207	0.00040 mg/L	0.0200		104	80-120			
Potassium, total	1.86	0.10 mg/L	2.00		93	80-120			
Selenium, total	0.0207	0.00050 mg/L	0.0200		103	80-120			
Sodium, total	1.91	0.10 mg/L	2.00		95	80-120			
Strontium, total	0.0195	0.0010 mg/L	0.0200		98	80-120			
Uranium, total	0.0193	0.000020 mg/L	0.0200		96	80-120			
Zinc, total	0.0226	0.0040 mg/L	0.0200		113	80-120			
Reference (B8L0510-SRM1)				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Aluminum, total	0.291	0.0050 mg/L	0.303		96	82-114			
Antimony, total	0.0527	0.00020 mg/L	0.0511		103	88-115			
Arsenic, total	0.129	0.00050 mg/L	0.118		109	88-111			
Barium, total	0.809	0.0050 mg/L	0.823		98	83-110			
Boron, total	3.28	0.0050 mg/L	3.45		95	80-118			
Cadmium, total	0.0515	0.000010 mg/L	0.0495		104	90-110			
Calcium, total	11.1	0.20 mg/L	11.6		96	85-113			
Chromium, total	0.267	0.00050 mg/L	0.250		107	88-111			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Interior Health Authority - Kamloops
Comprehensive Testing 2018 (Jessy Bhatti)

WORK ORDER REPORTED 8120202
2018-12-11 15:08

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B8L0510, Continued									
Reference (B8L0510-SRM1), Continued				Prepared: 2018-12-07, Analyzed: 2018-12-07					
Cobalt, total	0.0421	0.00010 mg/L	0.0377		112	90-114			
Copper, total	0.546	0.00040 mg/L	0.486		112	90-117			
Iron, total	0.507	0.010 mg/L	0.488		104	90-116			
Lead, total	0.210	0.00020 mg/L	0.204		103	90-110			
Magnesium, total	3.84	0.010 mg/L	3.79		101	88-116			
Manganese, total	0.108	0.00020 mg/L	0.109		99	88-108			
Molybdenum, total	0.204	0.00010 mg/L	0.198		103	88-110			
Nickel, total	0.269	0.00040 mg/L	0.249		108	90-112			
Potassium, total	7.20	0.10 mg/L	7.21		100	87-116			
Selenium, total	0.134	0.00050 mg/L	0.121		111	90-122			
Sodium, total	7.42	0.10 mg/L	7.54		98	86-118			
Strontium, total	0.391	0.0010 mg/L	0.375		104	86-110			
Uranium, total	0.0306	0.000020 mg/L	0.0306		100	88-112			
Zinc, total	2.64	0.0040 mg/L	2.49		106	90-113			

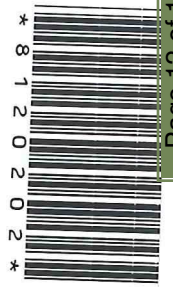


Interior Health Authority – Kamloops		Lab Number:	
Project: Comprehensive Testing 2018 (Jessy Bhatti)		Date Reported:	
Email to receive report: Jastinder.Bhatti@interiorhealth.ca			
DWO/EHO: <u>Katie McNamara</u>		Email: <u>Katharine.mcnamara@interiorhealth.ca</u>	
Phone #: <u>250 851 7410</u>	Cell #: <u>250 319 8351</u>		
Facility Name: <u>Pritchard CWS</u>		Facility #: <u>611959</u>	
Site Address: <u>4980 River Road, Pritchard, B.C. V0E 2P0</u>			
Phone #: <u>250 377 8673</u>	Email: <u>tmccabe@trnd.ca</u>	Fax #: <u>250 372 5048</u>	
Sampler's Name: <u>Dale Stachorski</u>		Date Collected DD/MM/YYYY: <u>3/12/18</u>	
Phone #: <u>250 318 3012</u>		Time Collected HH/MM: <u>11:45</u> <u>(am)</u> or pm	
Cell #: <u>250 318 3012</u>			
Email:			
Sampling Site Location: <u>Pumphouse</u>		◀◀ SAMPLER MUST FILL IN SAMPLE SITE	

Analysis
Alkalinity, all (KEL)
Coliforms, Total & Fecal by MPN (KEL)
Conductivity in Water (KEL)
Cyanide, Free in Water, Auto (KEL)
E. coli MPN Package (KEL)
Fluoride in Water, IC (KEL)
Langelier Index (CALC)
Mercury, total CVAFS Reg & Low (RMD)
Metals, total, All, Low (RMD)
Nitrogen, NO2 in water, IC (KEL)
Nitrogen, NO3 in water, IC (KEL)
pH in Water (KEL)
Sulfate in Water, IC (KEL)
Temperature (KEL)

Dec. 4 0930
BS ACE 4°C

NOTE: Coliforms are excluded from the above package as a raw bacteriological water sample from the source (wellhead, intake, etc.) is time-sensitive and should be collected separately as part of your routine bacteriological sampling program (i.e. the samples delivered every month to the Interior Health offices). Ideally, raw bacteriological source samples should be collected quarterly to capture all four seasons.



Interior Health Authority – Kamloops		Lab Number:	
Project: Comprehensive Testing 2018 (Jessy Bhatti)		Date Reported:	
Email to receive report: Jastinder.Bhatti@interiorhealth.ca			
DWO/EHO: <u>Katie McNamara</u>		Email: <u>Katharine.mcnamara@interiorhealth.ca</u>	
Phone #: <u>250 851 7410</u>	Cell #: <u>250 319 8351</u>		
Facility Name: <u>Pritchard CWS</u>		Facility #: <u>611959</u>	
Site Address: <u>4980 River Road, Pritchard, B.C. V0E 2P0</u>			
Phone #: <u>250 377 8673</u>	Email: <u>tmccabe@tnrd.ca</u>	Fax #: <u>250 372 5048</u>	
Sampler's Name: <u>Dale Stachorski</u>		Date Collected DD/MM/YYYY: <u>3/12/18</u>	
Phone #:		Time Collected HH/MM: <u>11:45</u> (am) or pm	
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Email:			
Sampling Site Location: <u>Pumphouse</u>		** SAMPLER MUST FILL IN SAMPLE SITE	

Analysis
Alkalinity, all (KEL)
Coliforms, Total & Fecal by MPN (KEL)
Conductivity in Water (KEL)
Cyanide, Free in Water, Auto (KEL)
E. coli MPN Package (KEL)
Fluoride in Water, IC (KEL)
Langelier Index (CALC)
Mercury, total CVAFS Reg & Low (RMD)
Metals, total, All, Low (RMD)
Nitrogen, NO2 in water, IC (KEL)
Nitrogen, NO3 in water, IC (KEL)
pH in Water (KEL)
Sulfate in Water, IC (KEL)
Temperature (KEL)

Dec. 4 0930
BS ACE 4°C

NOTE: Coliforms are excluded from the above package as a raw bacteriological water sample from the source (wellhead, intake, etc.) is time-sensitive and should be collected separately as part of your routine bacteriological sampling program (i.e. the samples delivered every month to the Interior Health offices). Ideally, raw bacteriological source samples should be collected quarterly to capture all four seasons.