

REPORTED TO Mid Shuswap Lumby Water Stewards
1631 Mable Lake Rd
Lumby, BC V0E 2G6

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ATTENTION Russ Collins

WORK ORDER 7052311

PO NUMBER Mid Shuswap Lumby Water Stewards
PROJECT Analytical Testing

RECEIVED / TEMP 2017-05-29 09:15 / 5°C
REPORTED 2017-06-05

PROJECT INFO

COC NUMBER No Number

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.



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Analytical Testing

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Analysis Description	Method Reference	Technique	Location
Ammonia, Total in Water	APHA 4500-NH3 G*	Automated Colorimetry (Phenate)	Kelowna
Anions by IC in Water	APHA 4110 B	Ion Chromatography with Chemical Suppression of Eluent Conductivity	Kelowna
Coliforms, Total (MF-Endo) in Water	APHA 9222 B	Membrane Filtration / Incubation on m-Endo Agar	Kelowna
Coliforms, Total (MPN) in Water	APHA 9221 B	Most Probable Number / Multiple-Tube Fermentation	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
E. coli (MPN) in Water	APHA 9221	Most Probable Number / Multiple-Tube Fermentation	Kelowna
Hardness (as CaCO3) 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	HNO3+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
MPN/100 mL	Most Probable Number per 100 millilitres
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

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: Shuswap River (Wilsey Dam) (7052311-01) [Water] Sampled: 2017-05-28 10:40

FILT,
PRESb

Anions

Chloride	0.19	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.092	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	4.2	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.021	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	80.3	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.082	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	7.65	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.0230	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	13.5	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	37.4	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0920	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.174	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	22.1	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

Aluminum, total	598	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.057	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	
Arsenic, total	0.462	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	13.2	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.021	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.8	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	0.0349	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	12300	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	1.37	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	0.432	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	1.80	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	862	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	0.296	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	1.04	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	1620	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	26.5	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	0.523	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	1.39	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	33	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	784	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	0.31	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	4470	N/A	50	µg/L	2017-06-02	2017-06-02	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Shuswap River (Wilsey Dam) (7052311-01) [Water] Sampled: 2017-05-28 10:40, Continued

FILT,
PRESb

Total Metals, Continued

Silver, total	0.012	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	901	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	54.7	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	1200	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0101	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.041	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	27.5	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	0.330	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	1.92	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	2.8	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	0.150	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total	52	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
Background Colonies	> 200	N/A	200	CFU/100 mL	N/A	2017-05-29	
E. coli	3	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	

Sample ID: Shuswap River (Odd Fellows) (7052311-02) [Water] Sampled: 2017-05-28 10:00

FILT,
PRESb

Anions

Chloride	1.04	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.050	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	12.6	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.020	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	140	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.111	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)	0.0263	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0025	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	14.3	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	56.0	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0495	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.160	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	17.9	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

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Sample ID: Shuswap River (Odd Fellows) (7052311-02) [Water] Sampled: 2017-05-28 10:00, Continued

FILT,
PRESb

Total Metals, Continued

Aluminum, total	648	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.063	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	
Arsenic, total	0.520	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	17.7	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.023	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	< 0.010	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.5	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	0.0534	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	17800	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	1.46	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	0.466	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	2.34	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	950	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	0.296	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	1.50	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	2790	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	29.2	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	0.773	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	2.03	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	33	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	1320	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	0.50	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	5590	N/A	50	µg/L	2017-06-02	2017-06-02	
Silver, total	0.015	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	1690	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	90.8	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	3000	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0109	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.060	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	32.6	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	0.413	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	2.13	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	4.1	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	0.291	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total	330	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
Background Colonies	> 200	N/A	200	CFU/100 mL	N/A	2017-05-29	
E. coli	26	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	

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Analytical Testing

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2017-06-05

Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Vance Creek (Mabel Lake Road) (7052311-03) [Water] Sampled: 2017-05-28 11:35

FILT,
PRESa

Anions

Chloride	1.33	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.081	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	20.0	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	< 0.020	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	245	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.494	N/A	0.050	mg/L	2017-06-01	2017-06-02	
pH	7.98	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.692	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0021	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	274	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	161	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0814	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.575	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	8.7	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

Aluminum, total	7990	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.367	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	
Arsenic, total	8.02	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	116	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.195	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	0.075	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.3	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	1.46	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	49500	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	17.9	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	8.53	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	37.0	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	17200	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	5.17	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	8.55	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	8950	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	410	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	2.05	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	19.9	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	483	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	2340	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	3.00	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	18500	N/A	50	µg/L	2017-06-02	2017-06-02	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Vance Creek (Mabel Lake Road) (7052311-03) [Water] Sampled: 2017-05-28 11:35,
Continued

FILT,
PRESa

Total Metals, Continued

Silver, total	0.354	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	2320	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	296	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	6500	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0991	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.897	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	0.102	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	159	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	1.04	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	29.2	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	79.9	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	1.30	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total (MPN)	210	N/A	3.0	MPN/100 mL	N/A	2017-05-29	
E. coli (MPN)	3.6	N/A	3.0	MPN/100 mL	N/A	2017-05-29	

Sample ID: Harris Creek (Hwy 6) (7052311-04) [Water] Sampled: 2017-05-28 12:05

FILTb,
PRESa

Anions

Chloride	0.37	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	< 0.010	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	6.2	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.026	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	54.5	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.305	N/A	0.050	mg/L	2017-06-02	2017-06-05	
pH	7.34	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.0934	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0108	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	19.2	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO ₃)	25.7	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	< 0.0100	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.305	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	90.9	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

Aluminum, total	1420	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.056	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	

REPORTED TO PROJECT Mid Shuswap Lumby Water Stewards
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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Harris Creek (Hwy 6) (7052311-04) [Water] Sampled: 2017-05-28 12:05, Continued

FILTb,
PRESa

Total Metals, Continued

Arsenic, total	0.604	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	22.3	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.056	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	0.010	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.2	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	0.0371	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	6800	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	2.84	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	1.16	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	4.64	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	2040	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	0.461	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	2.32	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	2100	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	68.2	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	0.477	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	11.7	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	97	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	1280	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	0.14	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	7630	N/A	50	µg/L	2017-06-02	2017-06-02	
Silver, total	0.017	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	1800	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	41.1	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	1800	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0208	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.144	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	0.053	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	93.0	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	0.363	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	4.29	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	8.8	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	0.963	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total	190	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
Background Colonies	> 200	N/A	200	CFU/100 mL	N/A	2017-05-29	
E. coli	48	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	

Sample ID: Duteau Creek (Hwy 6) (7052311-05) [Water] Sampled: 2017-05-28 11:55

FILTa,
PRESa

Anions

REPORTED TO PROJECT Mid Shuswap Lumby Water Stewards
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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Duteau Creek (Hwy 6) (7052311-05) [Water] Sampled: 2017-05-28 11:55, Continued

FILTa,
PRESa

Anions, Continued

Chloride	0.97	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.020	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	5.5	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.038	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	76.4	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.269	N/A	0.050	mg/L	2017-06-02	2017-06-05	
pH	7.51	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.0261	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0115	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	4.24	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	30.0	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0196	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.289	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	56.1	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

Aluminum, total	241	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	0.293	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Barium, total	14.0	MAC = 1000	0.10	µg/L	2017-05-31	2017-05-31	
Beryllium, total	0.015	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	3.5	MAC = 5000	1.0	µg/L	2017-05-31	2017-05-31	
Cadmium, total	0.0173	MAC = 5	0.0020	µg/L	2017-05-31	2017-05-31	
Calcium, total	8390	N/A	40	µg/L	2017-05-31	2017-05-31	
Chromium, total	1.68	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Cobalt, total	0.222	N/A	0.0050	µg/L	2017-05-31	2017-05-31	
Copper, total	1.99	AO ≤ 1000	0.10	µg/L	2017-05-31	2017-05-31	
Iron, total	525	AO ≤ 300	2.0	µg/L	2017-05-31	2017-05-31	
Lead, total	0.123	MAC = 10	0.050	µg/L	2017-05-31	2017-05-31	
Lithium, total	0.885	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Magnesium, total	2190	N/A	5.0	µg/L	2017-05-31	2017-05-31	
Manganese, total	34.7	AO ≤ 50	0.050	µg/L	2017-05-31	2017-05-31	
Molybdenum, total	0.665	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Nickel, total	1.85	N/A	0.020	µg/L	2017-05-31	2017-05-31	
Phosphorus, total	31	N/A	10	µg/L	2017-05-31	2017-05-31	
Potassium, total	1230	N/A	10	µg/L	2017-05-31	2017-05-31	
Selenium, total	0.28	MAC = 50	0.10	µg/L	2017-05-31	2017-05-31	
Silicon, total	5680	N/A	50	µg/L	2017-05-31	2017-05-31	

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Sample ID: Duteau Creek (Hwy 6) (7052311-05) [Water] Sampled: 2017-05-28 11:55, Continued

FILTa,
PRESa

Total Metals, Continued

Silver, total	< 0.010	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Sodium, total	2160	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	1700	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	0.0050	N/A	0.0040	µg/L	2017-05-31	2017-05-31	
Thorium, total	0.052	N/A	0.010	µg/L	2017-05-31	2017-05-31	
Tin, total	0.054	N/A	0.050	µg/L	2017-05-31	2017-05-31	
Titanium, total	13.2	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Uranium, total	0.226	MAC = 20	0.0010	µg/L	2017-05-31	2017-05-31	
Vanadium, total	1.35	N/A	0.20	µg/L	2017-05-31	2017-05-31	
Zinc, total	2.0	AO ≤ 5000	1.0	µg/L	2017-05-31	2017-05-31	
Zirconium, total	0.535	N/A	0.020	µg/L	2017-05-31	2017-05-31	

Microbiological Parameters

Coliforms, Total	710	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
Background Colonies	> 200	N/A	200	CFU/100 mL	N/A	2017-05-29	
E. coli	44	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	

Sample ID: Mid Bessette Creek (7052311-06) [Water] Sampled: 2017-05-28 11:20

FILT,
PRES

Anions

Chloride	0.75	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.025	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	7.6	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.033	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	81.0	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.326	N/A	0.050	mg/L	2017-06-02	2017-06-05	
pH	7.61	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.190	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0108	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	46.8	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	43.2	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0253	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.351	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	60.4	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

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Sample ID: Mid Bessette Creek (7052311-06) [Water] Sampled: 2017-05-28 11:20, Continued

FILT,
PRES

Total Metals, Continued

Aluminum, total	2300	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.101	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	
Arsenic, total	1.51	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	35.2	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.075	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	0.019	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.0	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	0.200	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	12100	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	4.20	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	2.04	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	8.27	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	3880	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	1.11	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	2.96	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	3140	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	115	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	0.753	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	10.7	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	145	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	1660	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	0.53	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	9330	N/A	50	µg/L	2017-06-02	2017-06-02	
Silver, total	0.067	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	2120	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	76.4	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	2300	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0305	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.240	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	0.068	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	106	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	0.427	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	7.44	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	15.4	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	1.08	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total	430	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	
Background Colonies	> 200	N/A	200	CFU/100 mL	N/A	2017-05-29	
E. coli	150	MAC = None Detected	1	CFU/100 mL	N/A	2017-05-29	

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Sample ID: Lower Bessette Creek (7052311-07) [Water] Sampled: 2017-05-28 11:05

FILT,
PRESa

Anions

Chloride	0.79	AO ≤ 250	0.10	mg/L	N/A	2017-05-30	
Nitrate (as N)	0.028	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	7.7	AO ≤ 500	1.0	mg/L	N/A	2017-05-30	

General Parameters

Ammonia, Total (as N)	0.034	N/A	0.020	mg/L	N/A	2017-06-01	
Conductivity (EC)	91.4	N/A	2.0	µS/cm	N/A	2017-05-30	
Nitrogen, Total Kjeldahl	0.330	N/A	0.050	mg/L	2017-06-02	2017-06-05	
pH	7.65	7-10.5	0.01	pH units	N/A	2017-05-30	HT2
Phosphorus, Total (as P)	0.260	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Phosphorus, Total Dissolved	0.0101	N/A	0.0020	mg/L	2017-06-01	2017-06-05	
Turbidity	84.8	OG < 0.1	0.10	NTU	N/A	2017-05-29	

Calculated Parameters

Hardness, Total (as CaCO3)	50.6	N/A	0.100	mg/L	N/A	N/A	
Nitrate+Nitrite (as N)	0.0277	N/A	0.0100	mg/L	N/A	N/A	
Nitrogen, Total	0.358	N/A	0.0500	mg/L	N/A	N/A	

Dissolved Metals

Aluminum, dissolved	56.7	N/A	1.0	µg/L	N/A	2017-06-02	
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Total Metals

Aluminum, total	3890	OG < 100	1.0	µg/L	2017-06-02	2017-06-02	
Antimony, total	0.113	MAC = 6	0.050	µg/L	2017-06-02	2017-06-02	
Arsenic, total	1.95	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Barium, total	51.1	MAC = 1000	0.10	µg/L	2017-06-02	2017-06-02	
Beryllium, total	0.126	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Bismuth, total	0.035	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Boron, total	3.0	MAC = 5000	1.0	µg/L	2017-06-02	2017-06-02	
Cadmium, total	0.235	MAC = 5	0.0020	µg/L	2017-06-02	2017-06-02	
Calcium, total	13600	N/A	40	µg/L	2017-06-02	2017-06-02	
Chromium, total	7.93	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Cobalt, total	3.12	N/A	0.0050	µg/L	2017-06-02	2017-06-02	
Copper, total	11.3	AO ≤ 1000	0.10	µg/L	2017-06-02	2017-06-02	
Iron, total	6150	AO ≤ 300	2.0	µg/L	2017-06-02	2017-06-02	
Lead, total	1.74	MAC = 10	0.050	µg/L	2017-06-02	2017-06-02	
Lithium, total	4.78	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Magnesium, total	4050	N/A	5.0	µg/L	2017-06-02	2017-06-02	
Manganese, total	156	AO ≤ 50	0.050	µg/L	2017-06-02	2017-06-02	
Molybdenum, total	0.843	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Nickel, total	13.6	N/A	0.020	µg/L	2017-06-02	2017-06-02	
Phosphorus, total	194	N/A	10	µg/L	2017-06-02	2017-06-02	
Potassium, total	2020	N/A	10	µg/L	2017-06-02	2017-06-02	
Selenium, total	0.58	MAC = 50	0.10	µg/L	2017-06-02	2017-06-02	
Silicon, total	12500	N/A	50	µg/L	2017-06-02	2017-06-02	

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Analyte	Result / Recovery	Standard / Guideline	MRL / Limits	Units	Prepared	Analyzed	Notes
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Sample ID: Lower Bessette Creek (7052311-07) [Water] Sampled: 2017-05-28 11:05, Continued

FILT,
PRESa

Total Metals, Continued

Silver, total	0.080	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Sodium, total	2250	AO ≤ 200000	10	µg/L	2017-06-02	2017-06-02	
Strontium, total	84.0	N/A	0.10	µg/L	2017-06-02	2017-06-02	
Sulfur, total	2500	N/A	1000	µg/L	2017-06-02	2017-06-02	
Tellurium, total	< 0.050	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Thallium, total	0.0544	N/A	0.0040	µg/L	2017-06-02	2017-06-02	
Thorium, total	0.439	N/A	0.010	µg/L	2017-06-02	2017-06-02	
Tin, total	0.112	N/A	0.050	µg/L	2017-06-02	2017-06-02	
Titanium, total	211	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Uranium, total	0.536	MAC = 20	0.0010	µg/L	2017-06-02	2017-06-02	
Vanadium, total	12.2	N/A	0.20	µg/L	2017-06-02	2017-06-02	
Zinc, total	21.9	AO ≤ 5000	1.0	µg/L	2017-06-02	2017-06-02	
Zirconium, total	1.58	N/A	0.020	µg/L	2017-06-02	2017-06-02	

Microbiological Parameters

Coliforms, Total (MPN)	460	N/A	3.0	MPN/100 mL	N/A	2017-05-29	
E. coli (MPN)	39	N/A	3.0	MPN/100 mL	N/A	2017-05-29	

Sample / Analysis Qualifiers:

FILT	Sample has been filtered for DP in the laboratory.
FILTa	Sample has been filtered for DP,Al in the laboratory.
FILTb	Sample has been filtered for DP,TP 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, TP in the laboratory and the holding time has been extended.
PRESa	Sample has been preserved for DP,TP in the laboratory and the holding time has been extended.
PRESb	Sample has been preserved for TP, DP in the laboratory and the holding time has been extended.