

CERTIFICATE OF ANALYSIS



CLIENT Regional District of Thompson Nicola
300 - 465 Victoria Street
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ATTENTION Denise Roberts

RECEIVED / TEMP Dec-01-11 09:05 / 8.0 °C
REPORTED Dec-08-11
COC #(s) 40837.5581

WORK ORDER K1L0027
PROJECT Evergreen CWS

General Comments:

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

Methods not described in these publications are conducted according to procedures accepted by appropriate regulatory agencies, and/or are done in accordance with recognized professional standards using accepted testing methodologies and quality control efforts except where otherwise agreed to by the client.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued unless otherwise agreed to in writing.

- All solids results are reported on a dry weight basis unless otherwise noted
- Units: mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
mg/L = milligrams per litre, equivalent to parts per million (ppm)
ug/L = micrograms per litre, equivalent to parts per billion (ppb)
ug/g = micrograms per gram, equivalent to parts per million (ppm)
ug/m3 = micrograms per cubic meter of air
- "RDL" Reported detection limit
- "<" Less than reported detection limit
- "AO" Aesthetic objective
- "MAC" Maximum acceptable concentration (health-related guideline)
- "LAB" RMD = Richmond location, KEL = Kelowna location, EDM = Edmonton location, SUB = Subcontracted

Please contact CARO if more information is needed or to provide feedback on our services.

CARO Analytical Services

Final Review Per: Jennifer Shanko, ASCT
Administration Coordinator

CARO Analytical Services

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Page 1 of 12

SAMPLE DATA

CLIENT PROJECT Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED K1L0027
Dec-08-11

Analyte	Result	RDL Units	Prepared	Analyzed	Notes
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General Parameters

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35

Alkalinity, Total as CaCO ₃	351	1.0 mg/L	Dec-01-11	Dec-05-11	
Alkalinity, Carbonate as CaCO ₃	< 1.0	1.0 mg/L	Dec-01-11	Dec-05-11	
Alkalinity, Bicarbonate as CaCO ₃	351	1.0 mg/L	Dec-01-11	Dec-05-11	
Alkalinity, Hydroxide as CaCO ₃	< 1.0	1.0 mg/L	Dec-01-11	Dec-05-11	
Chloride	10.9	0.10 mg/L	Dec-01-11	Dec-02-11	
Colour, True	< 5	5 Color Unit	Dec-02-11	Dec-05-11	
Conductivity (EC)	1140	2 uS/cm	Dec-01-11	Dec-02-11	
Fluoride	0.33	0.10 mg/L	Dec-01-11	Dec-02-11	
Hardness, Total (Total as CaCO ₃)	587	5.00 mg/L	N/A	N/A	
Hardness, Total (Diss. as CaCO ₃)	607	4.99 mg/L	N/A	N/A	
Nitrogen, Ammonia as N	0.02	0.01 mg/L	Dec-01-11	Dec-02-11	
Nitrogen, Nitrate+Nitrite as N	< 0.020	0.020 mg/L	N/A	N/A	
Nitrogen, Nitrate as N	0.015	0.010 mg/L	Dec-01-11	Dec-02-11	
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L	Dec-01-11	Dec-02-11	
Solids, Total Dissolved	769	5 mg/L	Dec-01-11	Dec-02-11	
Sulfate	295	10.0 mg/L	Dec-01-11	Dec-02-11	
UV Transmittance @ 254nm	98.9	0.1 %	Dec-05-11	Dec-06-11	

Dissolved Metals

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35

Aluminum, dissolved	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Antimony, dissolved	< 0.0200	0.0200 mg/L	Dec-05-11	Dec-05-11	
Arsenic, dissolved	< 0.0050	0.0050 mg/L	Dec-05-11	Dec-05-11	
Barium, dissolved	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Beryllium, dissolved	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Bismuth, dissolved	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Boron, dissolved	0.040	0.040 mg/L	Dec-05-11	Dec-05-11	
Cadmium, dissolved	< 0.00010	0.00010 mg/L	Dec-05-11	Dec-05-11	
Calcium, dissolved	88.2	2.0 mg/L	Dec-05-11	Dec-05-11	
Chromium, dissolved	< 0.0050	0.0050 mg/L	Dec-05-11	Dec-05-11	
Cobalt, dissolved	< 0.00050	0.00050 mg/L	Dec-05-11	Dec-05-11	
Copper, dissolved	0.0083	0.0020 mg/L	Dec-05-11	Dec-05-11	
Iron, dissolved	< 0.10	0.10 mg/L	Dec-05-11	Dec-05-11	
Lead, dissolved	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Lithium, dissolved	0.0097	0.0010 mg/L	Dec-05-11	Dec-05-11	
Magnesium, dissolved	94.0	0.10 mg/L	Dec-05-11	Dec-05-11	
Manganese, dissolved	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Mercury, dissolved	< 0.00020	0.00020 mg/L	Dec-05-11	Dec-05-11	
Molybdenum, dissolved	0.0036	0.0010 mg/L	Dec-05-11	Dec-05-11	
Nickel, dissolved	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Phosphorus, dissolved	< 0.20	0.20 mg/L	Dec-05-11	Dec-05-11	
Potassium, dissolved	5.21	0.20 mg/L	Dec-05-11	Dec-05-11	
Selenium, dissolved	0.0126	0.0050 mg/L	Dec-05-11	Dec-05-11	
Silicon, dissolved	7.5	5.0 mg/L	Dec-05-11	Dec-05-11	
Silver, dissolved	< 0.00050	0.00050 mg/L	Dec-05-11	Dec-05-11	

SAMPLE DATA



CLIENT PROJECT Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED K1L0027
Dec-08-11

Analyte	Result	RDL Units	Prepared	Analyzed	Notes
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Dissolved Metals, Continued

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35, Continued

Sodium, dissolved	51.3	0.20 mg/L	Dec-05-11	Dec-05-11	
Strontium, dissolved	0.702	0.010 mg/L	Dec-05-11	Dec-05-11	
Tellurium, dissolved	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Thallium, dissolved	< 0.00020	0.00020 mg/L	Dec-05-11	Dec-05-11	
Thorium, dissolved	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Tin, dissolved	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Titanium, dissolved	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Uranium, dissolved	0.0115	0.00020 mg/L	Dec-05-11	Dec-05-11	
Vanadium, dissolved	< 0.010	0.010 mg/L	Dec-05-11	Dec-05-11	
Zinc, dissolved	< 0.040	0.040 mg/L	Dec-05-11	Dec-05-11	
Zirconium, dissolved	< 0.001	0.001 mg/L	Dec-05-11	Dec-05-11	

Total Recoverable Metals

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35

Aluminum	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Antimony	< 0.0200	0.0200 mg/L	Dec-05-11	Dec-05-11	
Arsenic	< 0.0050	0.0050 mg/L	Dec-05-11	Dec-05-11	
Barium	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Beryllium	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Bismuth	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Boron	< 0.040	0.040 mg/L	Dec-05-11	Dec-05-11	
Cadmium	0.00064	0.00010 mg/L	Dec-05-11	Dec-05-11	
Calcium	84.5	2.0 mg/L	Dec-05-11	Dec-05-11	
Chromium	< 0.0050	0.0050 mg/L	Dec-05-11	Dec-05-11	
Cobalt	< 0.00050	0.00050 mg/L	Dec-05-11	Dec-05-11	
Copper	0.0120	0.0020 mg/L	Dec-05-11	Dec-05-11	
Iron	< 0.10	0.10 mg/L	Dec-05-11	Dec-05-11	
Lead	0.0012	0.0010 mg/L	Dec-05-11	Dec-05-11	
Lithium	0.0091	0.0010 mg/L	Dec-05-11	Dec-05-11	
Magnesium	91.3	0.10 mg/L	Dec-05-11	Dec-05-11	
Manganese	0.0110	0.0020 mg/L	Dec-05-11	Dec-05-11	
Mercury	< 0.00020	0.00020 mg/L	Dec-05-11	Dec-05-11	
Molybdenum	0.0036	0.0010 mg/L	Dec-05-11	Dec-05-11	
Nickel	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Phosphorus	< 0.20	0.20 mg/L	Dec-05-11	Dec-05-11	
Potassium	5.15	0.20 mg/L	Dec-05-11	Dec-05-11	
Selenium	0.0103	0.0050 mg/L	Dec-05-11	Dec-05-11	
Silicon	8.7	5.0 mg/L	Dec-05-11	Dec-05-11	
Silver	< 0.00050	0.00050 mg/L	Dec-05-11	Dec-05-11	
Sodium	50.3	0.20 mg/L	Dec-05-11	Dec-05-11	
Strontium	0.686	0.010 mg/L	Dec-05-11	Dec-05-11	
Tellurium	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	
Thallium	< 0.00020	0.00020 mg/L	Dec-05-11	Dec-05-11	
Thorium	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	
Tin	< 0.0020	0.0020 mg/L	Dec-05-11	Dec-05-11	

SAMPLE DATA



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Evergreen CWS

WORK ORDER # REPORTED K1L0027
Dec-08-11

Analyte	Result	RDL Units	Prepared	Analyzed	Notes
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Total Recoverable Metals, Continued

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35, Continued

Titanium	< 0.050	0.050 mg/L	Dec-05-11	Dec-05-11	
Uranium	0.0113	0.00020 mg/L	Dec-05-11	Dec-05-11	
Vanadium	< 0.010	0.010 mg/L	Dec-05-11	Dec-05-11	
Zinc	0.151	0.040 mg/L	Dec-05-11	Dec-05-11	
Zirconium	< 0.0010	0.0010 mg/L	Dec-05-11	Dec-05-11	

Volatile Organic Compounds

Booster Station (K1L0027-01) Matrix: Water Sampled: Nov-30-11 11:35

Bromodichloromethane	0.003	0.001 mg/L	Dec-06-11	Dec-07-11	
Bromoform	< 0.001	0.001 mg/L	Dec-06-11	Dec-07-11	
Chloroform	0.003	0.001 mg/L	Dec-06-11	Dec-07-11	
Dibromochloromethane	0.003	0.001 mg/L	Dec-06-11	Dec-07-11	
Trihalomethanes (total)	0.010	0.004 mg/L	Dec-06-11	Dec-07-11	
Surrogate: Toluene-d8	97 %	80-120	Dec-06-11	Dec-07-11	
Surrogate: 4-Bromofluorobenzene	76 %	80-120	Dec-06-11	Dec-07-11	S02

Sample Qualifiers:

- F1 The sample was not field-filtered and was therefore filtered (0.45um) in the laboratory prior to analysis.
- S02 Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

ANALYSIS / REPORT INFORMATION**CLIENT
PROJECT**Regional District of Thompson Nicola
Evergreen CWS**WORK ORDER #
REPORTED**K1L0027
Dec-08-11

Analysis Description	Method Reference(s) (* = modified from)		LAB
	Preparation	Analysis	
Dissolved Metals	N/A	EPA 6020A	RMD
Alkalinity, all	N/A	APHA 2320 B *	KEL
Chloride by IC	N/A	APHA 4110 B	KEL
True Colour	N/A	APHA 2120 B	KEL
Conductivity-Water	N/A	APHA 2510 B	KEL
Fluoride by IC	N/A	APHA 4110 B	KEL
Ammonia-N	N/A	APHA 4500-NH3 G *	KEL
Nitrate by IC	N/A	APHA 4110 B	KEL
Nitrate+Nitrite-N		[CALC]	KEL
Nitrite by IC	N/A	APHA 4110 B	KEL
Total Dissolved Solids (180C)	N/A	APHA 2540 C *	KEL
Sulfate by IC	N/A	APHA 4110 B	KEL
UV Transmittance at 254nm	N/A	APHA 5910 B	KEL
Total Recoverable Metals	EPA 200.2 *	EPA 6020A	RMD
Trihalomethanes	EPA 5030B	EPA 8260B	RMD

QUALITY CONTROL DATA



CLIENT PROJECT	Regional District of Thompson Nicola Evergreen CWS	WORK ORDER # REPORTED	K1L0027 Dec-08-11
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The following section reports quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with quality control samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** Laboratory reagent water is carried through sample preparation and analysis steps. Method Blanks indicate that results are free from contamination, i.e. not biased high from sources such as the sample container or the laboratory environment
- **Duplicate (Dup):** Preparation and analysis of a replicate aliquot of a sample. Duplicates provide a measure of the analytical method's precision, i.e. how reproducible a result is. Duplicates are only reported if they are associated with your sample data.
- **Blank Spike (BS):** A known amount of standard is carried through sample preparation and analysis steps. Blank Spikes, also known as laboratory control samples (LCS), are prepared from a different source of standard than used for the calibration. They ensure that the calibration is acceptable (i.e. not biased high or low) and also provide a measure of the analytical method's accuracy (i.e. closeness of the result to a target value).
- **Standard Reference Material (SRM):** A material of similar matrix to the samples, externally certified for the parameter(s) listed. Standard Reference Materials ensure that the preparation steps in the method are adequate to achieve acceptable recoveries of the parameter(s) tested for.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10 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	Reporting Limit Units	Spike Level	Source Result	% REC Limits	% RPD Limit	Notes
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Dissolved Metals, Batch B1L0047

Blank (B1L0047-BLK1)

Prepared: Dec-05-11, Analyzed: Dec-05-11

Aluminum, dissolved	< 0.050	0.050 mg/L					
Antimony, dissolved	< 0.0200	0.0200 mg/L					
Arsenic, dissolved	< 0.0050	0.0050 mg/L					
Barium, dissolved	< 0.050	0.050 mg/L					
Beryllium, dissolved	< 0.0010	0.0010 mg/L					
Bismuth, dissolved	< 0.0010	0.0010 mg/L					
Boron, dissolved	< 0.040	0.040 mg/L					
Cadmium, dissolved	< 0.00010	0.00010 mg/L					
Calcium, dissolved	< 2.0	2.0 mg/L					
Chromium, dissolved	< 0.0050	0.0050 mg/L					
Cobalt, dissolved	< 0.00050	0.00050 mg/L					
Copper, dissolved	< 0.0020	0.0020 mg/L					
Iron, dissolved	< 0.10	0.10 mg/L					
Lead, dissolved	< 0.0010	0.0010 mg/L					
Lithium, dissolved	< 0.0010	0.0010 mg/L					
Magnesium, dissolved	< 0.10	0.10 mg/L					
Manganese, dissolved	< 0.0020	0.0020 mg/L					
Mercury, dissolved	< 0.00020	0.00020 mg/L					
Molybdenum, dissolved	< 0.0010	0.0010 mg/L					
Nickel, dissolved	< 0.0020	0.0020 mg/L					
Phosphorus, dissolved	< 0.20	0.20 mg/L					
Potassium, dissolved	< 0.20	0.20 mg/L					
Selenium, dissolved	< 0.0050	0.0050 mg/L					
Silicon, dissolved	< 5.0	5.0 mg/L					
Silver, dissolved	< 0.00050	0.00050 mg/L					
Sodium, dissolved	< 0.20	0.20 mg/L					
Strontium, dissolved	< 0.010	0.010 mg/L					
Tellurium, dissolved	< 0.0020	0.0020 mg/L					
Thallium, dissolved	< 0.00020	0.00020 mg/L					
Thorium, dissolved	< 0.0010	0.0010 mg/L					
Tin, dissolved	< 0.0020	0.0020 mg/L					
Titanium, dissolved	< 0.050	0.050 mg/L					
Uranium, dissolved	< 0.00020	0.00020 mg/L					
Vanadium, dissolved	< 0.010	0.010 mg/L					
Zinc, dissolved	< 0.040	0.040 mg/L					
Zirconium, dissolved	< 0.001	0.001 mg/L					

Reference (B1L0047-SRM1)

Prepared: Dec-05-11, Analyzed: Dec-05-11

Aluminum, dissolved	0.211	0.050 mg/L	0.209	101	74-127
Antimony, dissolved	0.0425	0.0200 mg/L	0.0400	106	86-116
Arsenic, dissolved	0.399	0.0050 mg/L	0.404	99	84-111
Barium, dissolved	3.08	0.050 mg/L	3.12	99	87-114

QUALITY CONTROL DATA



CLIENT PROJECT

Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	% REC	% REC Limits	% RPD	% RPD Limit	Notes
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Dissolved Metals, Batch B1L0047, Continued

Reference (B1L0047-SRM1), Continued				Prepared: Dec-05-11, Analyzed: Dec-05-11					
Beryllium, dissolved	0.215	0.0010 mg/L	0.197	109	78-127				
Boron, dissolved	1.69	0.040 mg/L	1.61	105	74-117				
Cadmium, dissolved	0.194	0.00010 mg/L	0.200	97	89-110				
Calcium, dissolved	6.8	2.0 mg/L	6.50	105	83-128				
Chromium, dissolved	0.410	0.0050 mg/L	0.401	102	87-112				
Cobalt, dissolved	0.124	0.00050 mg/L	0.119	104	88-113				
Copper, dissolved	0.850	0.0020 mg/L	0.781	109	91-115				
Iron, dissolved	1.25	0.10 mg/L	1.17	107	81-117				
Lead, dissolved	0.0943	0.0010 mg/L	0.102	92	90-114				
Lithium, dissolved	0.106	0.0010 mg/L	0.0960	111	77-134				
Magnesium, dissolved	6.47	0.10 mg/L	6.11	106	79-122				
Manganese, dissolved	0.324	0.0020 mg/L	0.318	102	86-114				
Molybdenum, dissolved	0.386	0.0010 mg/L	0.387	100	92-113				
Nickel, dissolved	0.817	0.0020 mg/L	0.789	104	89-114				
Phosphorus, dissolved	0.39	0.20 mg/L	0.448	88	60-117				
Potassium, dissolved	3.00	0.20 mg/L	2.84	106	80-113				
Selenium, dissolved	0.0294	0.0050 mg/L	0.0300	98	84-120				
Sodium, dissolved	17.7	0.20 mg/L	17.4	101	78-118				
Strontium, dissolved	0.926	0.010 mg/L	0.979	95	88-113				
Thallium, dissolved	0.0366	0.00020 mg/L	0.0350	104	96-129				
Uranium, dissolved	0.175	0.00020 mg/L	0.244	72	68-95				
Vanadium, dissolved	0.782	0.010 mg/L	0.798	98	83-110				
Zinc, dissolved	0.831	0.040 mg/L	0.800	104	90-115				

General Parameters, Batch K105300

Blank (K105300-BLK1)			Prepared: Dec-01-11, Analyzed: Dec-02-11						
Solids, Total Dissolved	< 5	5 mg/L							
Blank (K105300-BLK2)			Prepared: Dec-01-11, Analyzed: Dec-02-11						
Solids, Total Dissolved	< 5	5 mg/L							
Reference (K105300-SRM1)			Prepared: Dec-01-11, Analyzed: Dec-02-11						
Solids, Total Dissolved	243	5 mg/L	240	101	85-115				
Reference (K105300-SRM2)			Prepared: Dec-01-11, Analyzed: Dec-02-11						
Solids, Total Dissolved	240	5 mg/L	240	100	85-115				

General Parameters, Batch K105313

Blank (K105313-BLK1)			Prepared: Dec-01-11, Analyzed: Dec-05-11						
Alkalinity, Total as CaCO3	< 1.0	1.0 mg/L							
Alkalinity, Carbonate as CaCO3	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate as CaCO3	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide as CaCO3	< 1.0	1.0 mg/L							
LCS (K105313-BS1)			Prepared: Dec-01-11, Analyzed: Dec-05-11						
Alkalinity, Total as CaCO3	102	1.0 mg/L	100	102	97-108				

General Parameters, Batch K105314

Blank (K105314-BLK1)			Prepared: Dec-01-11, Analyzed: Dec-05-11						
Conductivity (EC)	< 2	2 uS/cm							
Blank (K105314-BLK2)			Prepared: Dec-01-11, Analyzed: Dec-05-11						
Conductivity (EC)	< 2	2 uS/cm							
Blank (K105314-BLK3)			Prepared: Dec-01-11, Analyzed: Dec-02-11						
Conductivity (EC)	< 2	2 uS/cm							

QUALITY CONTROL DATA



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WORK ORDER # REPORTED

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	% REC	% REC Limits	% RPD	% RPD Limit	Notes
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General Parameters, Batch K105314, Continued

Blank (K105314-BLK4)		Prepared: Dec-01-11, Analyzed: Dec-02-11							
Conductivity (EC)	< 2	2 uS/cm							
LCS (K105314-BS5)		Prepared: Dec-01-11, Analyzed: Dec-05-11							
Conductivity (EC)	1400	2 uS/cm	1410		99	93-104			
LCS (K105314-BS6)		Prepared: Dec-01-11, Analyzed: Dec-02-11							
Conductivity (EC)	1390	2 uS/cm	1410		99	93-104			
LCS (K105314-BS7)		Prepared: Dec-01-11, Analyzed: Dec-02-11							
Conductivity (EC)	1390	2 uS/cm	1410		99	93-104			
LCS (K105314-BS8)		Prepared: Dec-01-11, Analyzed: Dec-02-11							
Conductivity (EC)	1390	2 uS/cm	1410		99	93-104			

General Parameters, Batch K105317

Blank (K105317-BLK1)		Prepared: Nov-02-11, Analyzed: Dec-02-11							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrogen, Nitrate as N	< 0.010	0.010 mg/L							
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (K105317-BLK2)		Prepared: Nov-02-11, Analyzed: Dec-02-11							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrogen, Nitrate as N	< 0.010	0.010 mg/L							
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (K105317-BLK3)		Prepared: Nov-02-11, Analyzed: Dec-03-11							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrogen, Nitrate as N	< 0.010	0.010 mg/L							
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (K105317-BLK4)		Prepared: Nov-02-11, Analyzed: Dec-03-11							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrogen, Nitrate as N	< 0.010	0.010 mg/L							
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (K105317-BLK5)		Prepared: Nov-02-11, Analyzed: Dec-03-11							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrogen, Nitrate as N	< 0.010	0.010 mg/L							
Nitrogen, Nitrite as N	< 0.01	0.01 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (K105317-BS1)		Prepared: Nov-02-11, Analyzed: Dec-02-11							
Chloride	3.99	0.10 mg/L	4.00		100	85-115			
Fluoride	4.08	0.10 mg/L	4.00		102	85-115			
Nitrogen, Nitrate as N	4.20	0.010 mg/L	4.00		105	85-115			
Nitrogen, Nitrite as N	4.01	0.01 mg/L	4.00		100	85-115			
Sulfate	3.9	1.0 mg/L	4.00		97	85-115			
LCS (K105317-BS2)		Prepared: Nov-02-11, Analyzed: Dec-02-11							
Chloride	4.00	0.10 mg/L	4.00		100	85-115			
Fluoride	4.08	0.10 mg/L	4.00		102	85-115			

QUALITY CONTROL DATA



CLIENT PROJECT

Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	% REC	% REC Limits	% RPD	% RPD Limit	Notes
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General Parameters, Batch K105317, Continued

LCS (K105317-BS2), Continued				Prepared: Nov-02-11, Analyzed: Dec-02-11					
Nitrogen, Nitrate as N	4.09	0.010 mg/L	4.00		102	85-115			
Nitrogen, Nitrite as N	4.04	0.01 mg/L	4.00		101	85-115			
Sulfate	3.9	1.0 mg/L	4.00		96	85-115			
LCS (K105317-BS3)				Prepared: Nov-02-11, Analyzed: Dec-03-11					
Chloride	3.98	0.10 mg/L	4.00		100	85-115			
Fluoride	4.08	0.10 mg/L	4.00		102	85-115			
Nitrogen, Nitrate as N	4.11	0.010 mg/L	4.00		103	85-115			
Nitrogen, Nitrite as N	3.98	0.01 mg/L	4.00		99	85-115			
Sulfate	3.9	1.0 mg/L	4.00		98	85-115			
LCS (K105317-BS4)				Prepared: Nov-02-11, Analyzed: Dec-03-11					
Chloride	4.04	0.10 mg/L	4.00		101	85-115			
Fluoride	4.14	0.10 mg/L	4.00		104	85-115			
Nitrogen, Nitrate as N	4.10	0.010 mg/L	4.00		103	85-115			
Nitrogen, Nitrite as N	4.05	0.01 mg/L	4.00		101	85-115			
Sulfate	3.9	1.0 mg/L	4.00		96	85-115			
LCS (K105317-BS5)				Prepared: Nov-02-11, Analyzed: Dec-03-11					
Chloride	3.97	0.10 mg/L	4.00		99	85-115			
Fluoride	4.06	0.10 mg/L	4.00		101	85-115			
Nitrogen, Nitrate as N	4.08	0.010 mg/L	4.00		102	85-115			
Nitrogen, Nitrite as N	3.92	0.01 mg/L	4.00		98	85-115			
Sulfate	3.9	1.0 mg/L	4.00		96	85-115			

General Parameters, Batch K105322

Blank (K105322-BLK1)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	< 5	5 Color Unit							
Blank (K105322-BLK2)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	< 5	5 Color Unit							
Blank (K105322-BLK3)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	< 5	5 Color Unit							
Blank (K105322-BLK4)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	< 5	5 Color Unit							
LCS (K105322-BS1)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	25	5 Color Unit	25.0		100	81-118			
LCS (K105322-BS2)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	25	5 Color Unit	25.0		100	81-118			
LCS (K105322-BS3)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	25	5 Color Unit	25.0		100	81-118			
LCS (K105322-BS4)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Colour, True	25	5 Color Unit	25.0		100	81-118			

General Parameters, Batch K105326

Blank (K105326-BLK1)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Nitrogen, Ammonia as N	< 0.01	0.01 mg/L							
Blank (K105326-BLK2)				Prepared: Dec-02-11, Analyzed: Dec-05-11					
Nitrogen, Ammonia as N	< 0.01	0.01 mg/L							

QUALITY CONTROL DATA



CLIENT PROJECT

Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	% REC	% REC Limits	% RPD	% RPD Limit	Notes
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General Parameters, Batch K105326, Continued

Blank (K105326-BLK3)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	< 0.01	0.01	mg/L							
Blank (K105326-BLK4)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	< 0.01	0.01	mg/L							
Blank (K105326-BLK5)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	< 0.01	0.01	mg/L							
Blank (K105326-BLK6)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	< 0.01	0.01	mg/L							
LCS (K105326-BS1)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	10.1	0.10	mg/L	10.0		101	86-111			
LCS (K105326-BS2)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	9.82	0.10	mg/L	10.0		98	86-111			
LCS (K105326-BS3)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	9.85	0.10	mg/L	10.0		98	86-111			
LCS (K105326-BS4)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	9.75	0.10	mg/L	10.0		98	86-111			
LCS (K105326-BS5)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	10.0	0.10	mg/L	10.0		100	86-111			
LCS (K105326-BS6)				Prepared: Dec-02-11, Analyzed: Dec-05-11						
Nitrogen, Ammonia as N	9.59	0.10	mg/L	10.0		96	86-111			

General Parameters, Batch K105347

Blank (K105347-BLK1)				Prepared: Dec-05-11, Analyzed: Dec-06-11						
UV Transmittance @ 254nm	< 0.1	0.1	%							
Blank (K105347-BLK2)				Prepared: Dec-05-11, Analyzed: Dec-06-11						
UV Transmittance @ 254nm	< 0.1	0.1	%							
Reference (K105347-SRM1)				Prepared: Dec-05-11, Analyzed: Dec-06-11						
UV Transmittance @ 254nm	32.8	0.1	%	32.4		101	90-110			
Reference (K105347-SRM2)				Prepared: Dec-05-11, Analyzed: Dec-06-11						
UV Transmittance @ 254nm	32.7	0.1	%	32.4		101	90-110			

Total Recoverable Metals, Batch B1L0044

Blank (B1L0044-BLK1)				Prepared: Dec-05-11, Analyzed: Dec-05-11						
Aluminum	< 0.050	0.050	mg/L							
Antimony	< 0.0200	0.0200	mg/L							
Arsenic	< 0.0050	0.0050	mg/L							
Barium	< 0.050	0.050	mg/L							
Beryllium	< 0.0010	0.0010	mg/L							
Bismuth	< 0.0010	0.0010	mg/L							
Boron	< 0.040	0.040	mg/L							
Cadmium	< 0.00010	0.00010	mg/L							
Calcium	< 2.0	2.0	mg/L							
Chromium	< 0.0050	0.0050	mg/L							
Cobalt	< 0.00050	0.00050	mg/L							
Copper	< 0.0020	0.0020	mg/L							
Iron	< 0.10	0.10	mg/L							
Lead	< 0.0010	0.0010	mg/L							

QUALITY CONTROL DATA



**CLIENT
PROJECT**

Regional District of Thompson Nicola
Evergreen CWS

**WORK ORDER #
REPORTED**

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	% REC Limits	% RPD Limit	Notes
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Total Recoverable Metals, Batch B1L0044, Continued

Blank (B1L0044-BLK1), Continued

Prepared: Dec-05-11, Analyzed: Dec-05-11

Lithium	< 0.0010	0.0010 mg/L					
Magnesium	< 0.10	0.10 mg/L					
Manganese	< 0.0020	0.0020 mg/L					
Mercury	< 0.00020	0.00020 mg/L					
Molybdenum	< 0.0010	0.0010 mg/L					
Nickel	< 0.0020	0.0020 mg/L					
Phosphorus	< 0.20	0.20 mg/L					
Potassium	< 0.20	0.20 mg/L					
Selenium	< 0.0050	0.0050 mg/L					
Silicon	< 5.0	5.0 mg/L					
Silver	< 0.00050	0.00050 mg/L					
Sodium	< 0.20	0.20 mg/L					
Strontium	< 0.010	0.010 mg/L					
Tellurium	< 0.0020	0.0020 mg/L					
Thallium	< 0.00020	0.00020 mg/L					
Thorium	< 0.0010	0.0010 mg/L					
Tin	< 0.0020	0.0020 mg/L					
Titanium	< 0.050	0.050 mg/L					
Uranium	< 0.00020	0.00020 mg/L					
Vanadium	< 0.010	0.010 mg/L					
Zinc	< 0.040	0.040 mg/L					
Zirconium	< 0.0010	0.0010 mg/L					

Duplicate (B1L0044-DUP1)

Source: K1L0027-01

Prepared: Dec-05-11, Analyzed: Dec-05-11

Aluminum	< 0.050	0.050 mg/L		< 0.050		30	
Antimony	< 0.0200	0.0200 mg/L		< 0.0200		25	
Arsenic	< 0.0050	0.0050 mg/L		< 0.0050		25	
Barium	< 0.050	0.050 mg/L		< 0.050		30	
Beryllium	< 0.0010	0.0010 mg/L		< 0.0010		30	
Bismuth	< 0.0010	0.0010 mg/L		< 0.0010		30	
Boron	< 0.040	0.040 mg/L		< 0.040		40	
Cadmium	< 0.00010	0.00010 mg/L		0.00064		20	
Calcium	85.8	2.0 mg/L		84.5		2	20
Chromium	< 0.0050	0.0050 mg/L		< 0.0050		25	
Cobalt	< 0.00050	0.00050 mg/L		< 0.00050		20	
Copper	0.0103	0.0020 mg/L		0.0120		15	30
Iron	< 0.10	0.10 mg/L		< 0.10		30	
Lead	0.0011	0.0010 mg/L		0.0012		20	
Lithium	0.0095	0.0010 mg/L		0.0091		4	30
Magnesium	91.3	0.10 mg/L		91.3		< 1	20
Manganese	< 0.0020	0.0020 mg/L		0.0110		20	
Mercury	< 0.00020	0.00020 mg/L		< 0.00020		40	
Molybdenum	0.0038	0.0010 mg/L		0.0036		20	
Nickel	< 0.0020	0.0020 mg/L		< 0.0020		20	
Phosphorus	< 0.20	0.20 mg/L		< 0.20		20	
Potassium	4.98	0.20 mg/L		5.15		3	20
Selenium	0.0127	0.0050 mg/L		0.0103		30	
Silicon	8.3	5.0 mg/L		8.7		40	
Silver	< 0.00050	0.00050 mg/L		< 0.00050		30	
Sodium	49.9	0.20 mg/L		50.3		< 1	20
Strontium	0.669	0.010 mg/L		0.686		3	20
Tellurium	< 0.0020	0.0020 mg/L		< 0.0020		30	
Thallium	< 0.00020	0.00020 mg/L		< 0.00020		20	
Thorium	< 0.0010	0.0010 mg/L		< 0.0010		30	
Tin	< 0.0020	0.0020 mg/L		< 0.0020		40	
Titanium	< 0.050	0.050 mg/L		< 0.050		30	
Uranium	0.0114	0.00020 mg/L		0.0113		1	20
Vanadium	< 0.010	0.010 mg/L		< 0.010		20	
Zinc	< 0.040	0.040 mg/L		0.151		20	
Zirconium	< 0.0010	0.0010 mg/L		< 0.0010		40	

Reference (B1L0044-SRM1)

Prepared: Dec-05-11, Analyzed: Dec-05-11

Aluminum	0.318	0.050 mg/L	0.296	107	81-129
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QUALITY CONTROL DATA



CLIENT PROJECT

Regional District of Thompson Nicola
Evergreen CWS

WORK ORDER # REPORTED

K1L0027
Dec-08-11

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	% REC	% REC Limits	% RPD	% RPD Limit	Notes
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Total Recoverable Metals, Batch B1L0044, Continued

Reference (B1L0044-SRM1), Continued

Prepared: Dec-05-11, Analyzed: Dec-05-11

Antimony	0.0518	0.0200	mg/L	0.0505		103	88-114			
Arsenic	0.119	0.0050	mg/L	0.122		97	88-114			
Barium	0.739	0.050	mg/L	0.777		95	72-104			
Beryllium	0.0530	0.0010	mg/L	0.0488		109	76-131			
Boron	3.68	0.040	mg/L	3.40		108	75-121			
Cadmium	0.0481	0.0010	mg/L	0.0490		98	89-111			
Calcium	10.4	2.0	mg/L	10.2		101	86-121			
Chromium	0.255	0.0050	mg/L	0.242		105	89-114			
Cobalt	0.0396	0.00050	mg/L	0.0366		108	91-113			
Copper	0.535	0.0020	mg/L	0.487		110	91-115			
Iron	0.58	0.10	mg/L	0.469		123	77-124			
Lead	0.183	0.0010	mg/L	0.193		95	92-113			
Lithium	0.417	0.0010	mg/L	0.390		107	85-115			
Magnesium	3.70	0.10	mg/L	3.31		112	78-120			
Manganese	0.113	0.0020	mg/L	0.109		104	90-114			
Mercury	0.00470	0.00020	mg/L	0.00456		103	50-150			
Molybdenum	0.188	0.0010	mg/L	0.197		96	90-111			
Nickel	0.254	0.0020	mg/L	0.242		105	90-111			
Phosphorus	0.23	0.20	mg/L	0.233		98	85-115			
Potassium	6.48	0.20	mg/L	5.93		109	84-113			
Selenium	0.110	0.0050	mg/L	0.115		96	85-115			
Sodium	8.21	0.20	mg/L	7.64		108	82-123			
Strontium	0.339	0.010	mg/L	0.363		93	88-112			
Thallium	0.0732	0.00020	mg/L	0.0794		92	91-114			
Uranium	0.0171	0.00020	mg/L	0.0192		89	85-120			
Vanadium	0.381	0.010	mg/L	0.376		101	86-111			
Zinc	2.55	0.040	mg/L	2.42		106	85-111			

Volatile Organic Compounds, Batch B1L0075

Blank (B1L0075-BLK1)

Prepared: Dec-06-11, Analyzed: Dec-07-11

Bromodichloromethane	< 0.001	0.001	mg/L							
Bromoform	< 0.001	0.001	mg/L							
Chloroform	< 0.001	0.001	mg/L							
Dibromochloromethane	< 0.001	0.001	mg/L							
Trihalomethanes (total)	< 0.004	0.004	mg/L							
Surrogate: Toluene-d8	0.0264		mg/L	0.0250		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0213		mg/L	0.0250		85	80-120			

LCS (B1L0075-BS1)

Prepared: Dec-06-11, Analyzed: Dec-07-11

Bromodichloromethane	0.021	0.001	mg/L	0.0200		107	80-120			
Bromoform	0.021	0.001	mg/L	0.0200		106	80-120			
Chloroform	0.022	0.001	mg/L	0.0200		108	80-120			
Dibromochloromethane	0.021	0.001	mg/L	0.0200		104	80-120			
Surrogate: Toluene-d8	0.0281		mg/L	0.0250		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.0280		mg/L	0.0250		112	80-120			