

Your C.O.C. #: 16935

Attention: Joe Wools

North Cedar Improvement District
PO Box 210
2100 Yellow Point Rd
Cedar, BC
Canada V9X 1W1

Report Date: 2018/07/13

Report #: R2588799

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B853877

Received: 2018/07/03, 13:52

Sample Matrix: DRINKING WATER
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	1	N/A	2018/07/07	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	1	N/A	2018/07/09	BBY6SOP-00011	SM 22 4500-Cl- E m
True Colour (Single Wavelength) (1)	1	N/A	2018/07/06	VIC SOP-00010	SM 22 2120 C m
Conductance - water	1	N/A	2018/07/07	BBY6SOP-00026	SM 22 2510 B m
Fluoride	1	N/A	2018/07/10	BBY6SOP-00048	SM 22 4500-F C m
Iron Bacteria (1)	1	N/A	2018/07/03	VIC SOP-00114	SM 9240B m
Sulphide (as H ₂ S) Calculation - total	1	N/A	2018/07/06	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO ₃) (2)	1	N/A	2018/07/09	BBY WI-00033	Auto Calc
Mercury (Total) by CVAF	1	2018/07/06	2018/07/06	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Heterotropic Plate Count Water Mem. Filt (1)	1	N/A	2018/07/03	BBY4 SOP-00003	SM 9215 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/07/09	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	1	N/A	2018/07/09	BBY7SOP-00003,	EPA 6020b R2 m
Nitrogen (Total)	1	N/A	2018/07/06	BBY6SOP-00016	SM 22 4500-N C m
Ammonia-N (Preserved)	1	N/A	2018/07/06	BBY6SOP-00009	EPA 350.1 m
Nitrate + Nitrite (N)	1	N/A	2018/07/07	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	1	N/A	2018/07/06	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	1	N/A	2018/07/10	BBY WI-00033	Auto Calc
Nitrogen (Tot. Organic) Calculation	1	N/A	2018/07/10	BBY WI-00033	Auto Calc
pH Water (3)	1	N/A	2018/07/07	BBY6SOP-00026	SM 22 4500-H+ B m
Sat. pH and Langelier Index (@ 4.4C)	1	N/A	2018/07/10	BBY WI-00033	Auto Calc
Sat. pH and Langelier Index (@ 60C)	1	N/A	2018/07/10	BBY WI-00033	Auto Calc
Sulphate by Automated Colourimetry	1	N/A	2018/07/10	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate Reducing Bacteria (1)	1	N/A	2018/07/03	VIC SOP-00114	SM 9240C m
Sulphide - total	1	N/A	2018/07/06	BBY6SOP-00006	SM 22 4500-S2- D m
Total Dissolved Solids (Filt. Residue) (1)	1	N/A	2018/07/06	VIC SOP-00008	SM 2540C m
Total Coliform & E.Coli by MF-Chromocult (1)	1	N/A	2018/07/04	VIC SOP 00112	SM 9222J
Carbon (Total Organic) (4)	1	N/A	2018/07/09	BBY6SOP-00003	SM 22 5310 C m
Turbidity (1)	1	N/A	2018/07/06	VIC SOP-00011	SM 2130
UV absorbance @254nm-Unfiltered	1	N/A	2018/07/09	BBY6SOP-00055	SM 22 5910 B

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Sample Matrix: DRINKING WATER

Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
UV transmittance @254nm-Unfiltered	1	N/A	2018/07/09	BBY WI-00033	Auto Calc

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Victoria

(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

(4) TOC present in the sample should be considered as non-purgeable TOC.

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
BC Env Customer Service, BC Environmental Customer Service
Email: Enviro.CS.BC@maxxam.ca
Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

VIHA PKG, WELLS/SPRINGS - VICTORIA (DRINKING WATER)

Maxxam ID					TU0431		
Sampling Date					2018/07/03 09:15		
COC Number					16935		
	UNITS	MAC	AO	OG	RAW WATER WELL #1	RDL	QC Batch
Misc. Inorganics							
UV absorbance (254nm)	AU/cm	-	-	-	<0.010	0.010	9055966
ANIONS							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	9053721
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	-	-	-	20.3	0.50	9050022
Nitrate (N)	mg/L	10	-	-	0.120	0.020	9048010
Total Organic Nitrogen (N)	mg/L	-	-	-	0.102	0.020	9048765
Transmittance at 254nm	%T/cm	-	-	-	>97.7	N/A	9048775
Misc. Inorganics							
Fluoride (F)	mg/L	1.5	-	-	0.033	0.020	9058121
Alkalinity (Total as CaCO3)	mg/L	-	-	-	23.4	1.0	9054044
Total Organic Carbon (C)	mg/L	-	-	-	<0.50	0.50	9055752
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	9054044
Bicarbonate (HCO3)	mg/L	-	-	-	28.6	1.0	9054044
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	9054044
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	9054044
Anions							
Dissolved Sulphate (SO4)	mg/L	-	500	-	3.3	1.0	9058123
Dissolved Chloride (Cl)	mg/L	-	250	-	5.7	1.0	9057186
MISCELLANEOUS							
True Colour	Col. Unit	-	15	-	<5	5	9055880
Nutrients							
Total Ammonia (N)	mg/L	-	-	-	<0.020	0.020	9053936
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.120	0.020	9054504
Total Nitrogen (N)	mg/L	-	-	-	0.222	0.020	9052642
Physical Properties							
Conductivity	uS/cm	-	-	-	70.1	2.0	9054045
pH	pH	-	-	7.0:10.5	7.45		9054043
Physical Properties							
Total Dissolved Solids	mg/L	-	500	-	33	10	9053621
Turbidity	NTU	see remark	see remark	see remark	0.6	0.1	9055756
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
N/A = Not Applicable							

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VIHA PKG, WELLS/SPRINGS - VICTORIA (DRINKING WATER)

Maxxam ID					TU0431		
Sampling Date					2018/07/03 09:15		
COC Number					16935		
	UNITS	MAC	AO	OG	RAW WATER WELL #1	RDL	QC Batch
Elements							
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	0.0020	9052685
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	-	-	100	4.1	3.0	9054613
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	9054613
Total Arsenic (As)	ug/L	10	-	-	<0.10	0.10	9054613
Total Barium (Ba)	ug/L	1000	-	-	6.2	1.0	9054613
Total Beryllium (Be)	ug/L	-	-	-	<0.10	0.10	9054613
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	1.0	9054613
Total Boron (B)	ug/L	5000	-	-	<50	50	9054613
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010	9054613
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0	9054613
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20	9054613
Total Copper (Cu)	ug/L	-	1000	-	3.04	0.20	9054613
Total Iron (Fe)	ug/L	-	300	-	9.0	5.0	9054613
Total Lead (Pb)	ug/L	10	-	-	<0.20	0.20	9054613
Total Manganese (Mn)	ug/L	-	50	-	2.9	1.0	9054613
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	9054613
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	9054613
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10	9054613
Total Silicon (Si)	ug/L	-	-	-	3970	100	9054613
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	9054613
Total Strontium (Sr)	ug/L	-	-	-	38.3	1.0	9054613
Total Thallium (Tl)	ug/L	-	-	-	<0.010	0.010	9054613
Total Tin (Sn)	ug/L	-	-	-	<5.0	5.0	9054613
Total Titanium (Ti)	ug/L	-	-	-	<5.0	5.0	9054613
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	9054613
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	9054613
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	9054613
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	0.10	9054613
Total Calcium (Ca)	mg/L	-	-	-	6.54	0.050	9048009
Total Magnesium (Mg)	mg/L	-	-	-	0.957	0.050	9048009
Total Potassium (K)	mg/L	-	-	-	0.187	0.050	9048009
Total Sodium (Na)	mg/L	-	200	-	5.95	0.050	9048009
Total Sulphur (S)	mg/L	-	-	-	<3.0	3.0	9048009
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

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Maxxam ID					TU0431		
Sampling Date					2018/07/03 09:15		
COC Number					16935		
	UNITS	MAC	AO	OG	RAW WATER WELL #1	RDL	QC Batch
Microbiological Param.							
Heterotrophic Plate Count	CFU/mL	-	-	-	1	1	9053223
Iron Bacteria	CFU/mL	-	-	-	SEE NOTE (1)	25	9062355
Sulphate reducing bacteria	CFU/mL	-	-	-	<75	75	9062393
Total Coliforms	CFU/100mL	0	-	-	0	N/A	9051871
E. coli	CFU/100mL	0	-	-	0	N/A	9051871
Calculated Parameters							
Langelier Index (@ 4.4C)	N/A	-	-	-	-2.22	N/A	9048768
Langelier Index (@ 60C)	N/A	-	-	-	-1.18	N/A	9048770
Saturation pH (@ 4.4C)	N/A	-	-	-	9.67	N/A	9048768
Saturation pH (@ 60C)	N/A	-	-	-	8.63	N/A	9048770
Total Sulphide (as H2S)	mg/L	-	0.05	-	0.0080	0.0050	9047908
MISCELLANEOUS							
Total Sulphide	mg/L	-	0.05	-	0.0074	0.0050	9053138
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
N/A = Not Applicable							
(1) A range of 500-2200 CFU/mL is given.							

GENERAL COMMENTS

Sample TU0431 [RAW WATER WELL #1] : Sample was analyzed past method specified hold time for UV absorbance @254nm-Unfiltered. {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Results relate only to the items tested.

Maxxam Job #: B853877
Report Date: 2018/07/13

North Cedar Improvement District

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9052642	IC4	Matrix Spike	Total Nitrogen (N)	2018/07/06		86	%	80 - 120
9052642	IC4	Spiked Blank	Total Nitrogen (N)	2018/07/06		90	%	80 - 120
9052642	IC4	Method Blank	Total Nitrogen (N)	2018/07/06	<0.020		mg/L	
9052642	IC4	RPD	Total Nitrogen (N)	2018/07/06	11		%	20
9052685	EL2	Matrix Spike	Total Mercury (Hg)	2018/07/06		95	%	80 - 120
9052685	EL2	Spiked Blank	Total Mercury (Hg)	2018/07/06		99	%	80 - 120
9052685	EL2	Method Blank	Total Mercury (Hg)	2018/07/06	<0.0020		ug/L	
9052685	EL2	RPD	Total Mercury (Hg)	2018/07/06	NC		%	20
9053138	KAB	Matrix Spike	Total Sulphide	2018/07/06		88	%	80 - 120
9053138	KAB	Spiked Blank	Total Sulphide	2018/07/06		106	%	80 - 120
9053138	KAB	Method Blank	Total Sulphide	2018/07/06	<0.0050		mg/L	
9053138	KAB	RPD	Total Sulphide	2018/07/06	5.9		%	20
9053621	OMA	Spiked Blank	Total Dissolved Solids	2018/07/06		96	%	80 - 120
9053621	OMA	Method Blank	Total Dissolved Solids	2018/07/06	<10		mg/L	
9053621	OMA	RPD	Total Dissolved Solids	2018/07/06	1.2		%	20
9053721	PSA	Matrix Spike	Nitrite (N)	2018/07/06		101	%	80 - 120
9053721	PSA	Spiked Blank	Nitrite (N)	2018/07/06		103	%	80 - 120
9053721	PSA	Method Blank	Nitrite (N)	2018/07/06	<0.0050		mg/L	
9053721	PSA	RPD	Nitrite (N)	2018/07/06	6.3		%	20
9053936	BO3	Matrix Spike	Total Ammonia (N)	2018/07/06		NC	%	80 - 120
9053936	BO3	Spiked Blank	Total Ammonia (N)	2018/07/06		99	%	80 - 120
9053936	BO3	Method Blank	Total Ammonia (N)	2018/07/06	<0.020		mg/L	
9053936	BO3	RPD	Total Ammonia (N)	2018/07/06	0.21		%	20
9054043	WAY	Spiked Blank	pH	2018/07/07		101	%	97 - 103
9054043	WAY	RPD	pH	2018/07/07	0.49		%	20
9054044	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2018/07/07		97	%	80 - 120
9054044	WAY	Method Blank	Alkalinity (Total as CaCO3)	2018/07/07	<1.0		mg/L	
			Alkalinity (PP as CaCO3)	2018/07/07	<1.0		mg/L	
			Bicarbonate (HCO3)	2018/07/07	<1.0		mg/L	
			Carbonate (CO3)	2018/07/07	<1.0		mg/L	
			Hydroxide (OH)	2018/07/07	<1.0		mg/L	
9054045	WAY	Spiked Blank	Conductivity	2018/07/07		101	%	80 - 120
9054045	WAY	Method Blank	Conductivity	2018/07/07	<2.0		uS/cm	
9054504	PSA	Matrix Spike	Nitrate plus Nitrite (N)	2018/07/07		98	%	80 - 120
9054504	PSA	Spiked Blank	Nitrate plus Nitrite (N)	2018/07/07		111	%	80 - 120
9054504	PSA	Method Blank	Nitrate plus Nitrite (N)	2018/07/07	<0.020		mg/L	
9054504	PSA	RPD	Nitrate plus Nitrite (N)	2018/07/07	NC		%	25
9054613	JC8	Matrix Spike	Total Aluminum (Al)	2018/07/09		101	%	80 - 120
			Total Antimony (Sb)	2018/07/09		100	%	80 - 120
			Total Arsenic (As)	2018/07/09		99	%	80 - 120
			Total Barium (Ba)	2018/07/09		95	%	80 - 120
			Total Beryllium (Be)	2018/07/09		102	%	80 - 120
			Total Bismuth (Bi)	2018/07/09		98	%	80 - 120
			Total Boron (B)	2018/07/09		109	%	80 - 120
			Total Cadmium (Cd)	2018/07/09		98	%	80 - 120
			Total Chromium (Cr)	2018/07/09		100	%	80 - 120
			Total Cobalt (Co)	2018/07/09		98	%	80 - 120
			Total Copper (Cu)	2018/07/09		98	%	80 - 120
			Total Iron (Fe)	2018/07/09		102	%	80 - 120
			Total Lead (Pb)	2018/07/09		100	%	80 - 120
			Total Manganese (Mn)	2018/07/09		97	%	80 - 120
			Total Molybdenum (Mo)	2018/07/09		100	%	80 - 120
			Total Nickel (Ni)	2018/07/09		96	%	80 - 120
			Total Selenium (Se)	2018/07/09		101	%	80 - 120
			Total Silicon (Si)	2018/07/09		NC	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Silver (Ag)	2018/07/09		100	%	80 - 120
			Total Strontium (Sr)	2018/07/09		NC	%	80 - 120
			Total Thallium (Tl)	2018/07/09		100	%	80 - 120
			Total Tin (Sn)	2018/07/09		100	%	80 - 120
			Total Titanium (Ti)	2018/07/09		99	%	80 - 120
			Total Uranium (U)	2018/07/09		102	%	80 - 120
			Total Vanadium (V)	2018/07/09		100	%	80 - 120
			Total Zinc (Zn)	2018/07/09		97	%	80 - 120
			Total Zirconium (Zr)	2018/07/09		102	%	80 - 120
9054613	JC8	Spiked Blank	Total Aluminum (Al)	2018/07/09		103	%	80 - 120
			Total Antimony (Sb)	2018/07/09		101	%	80 - 120
			Total Arsenic (As)	2018/07/09		99	%	80 - 120
			Total Barium (Ba)	2018/07/09		99	%	80 - 120
			Total Beryllium (Be)	2018/07/09		100	%	80 - 120
			Total Bismuth (Bi)	2018/07/09		99	%	80 - 120
			Total Boron (B)	2018/07/09		106	%	80 - 120
			Total Cadmium (Cd)	2018/07/09		99	%	80 - 120
			Total Chromium (Cr)	2018/07/09		101	%	80 - 120
			Total Cobalt (Co)	2018/07/09		100	%	80 - 120
			Total Copper (Cu)	2018/07/09		99	%	80 - 120
			Total Iron (Fe)	2018/07/09		104	%	80 - 120
			Total Lead (Pb)	2018/07/09		99	%	80 - 120
			Total Manganese (Mn)	2018/07/09		100	%	80 - 120
			Total Molybdenum (Mo)	2018/07/09		96	%	80 - 120
			Total Nickel (Ni)	2018/07/09		101	%	80 - 120
			Total Selenium (Se)	2018/07/09		100	%	80 - 120
			Total Silicon (Si)	2018/07/09		107	%	80 - 120
			Total Silver (Ag)	2018/07/09		100	%	80 - 120
			Total Strontium (Sr)	2018/07/09		101	%	80 - 120
			Total Thallium (Tl)	2018/07/09		100	%	80 - 120
			Total Tin (Sn)	2018/07/09		100	%	80 - 120
			Total Titanium (Ti)	2018/07/09		103	%	80 - 120
			Total Uranium (U)	2018/07/09		100	%	80 - 120
			Total Vanadium (V)	2018/07/09		102	%	80 - 120
			Total Zinc (Zn)	2018/07/09		101	%	80 - 120
			Total Zirconium (Zr)	2018/07/09		100	%	80 - 120
9054613	JC8	Method Blank	Total Aluminum (Al)	2018/07/09	<3.0		ug/L	
			Total Antimony (Sb)	2018/07/09	<0.50		ug/L	
			Total Arsenic (As)	2018/07/09	<0.10		ug/L	
			Total Barium (Ba)	2018/07/09	<1.0		ug/L	
			Total Beryllium (Be)	2018/07/09	<0.10		ug/L	
			Total Bismuth (Bi)	2018/07/09	<1.0		ug/L	
			Total Boron (B)	2018/07/09	<50		ug/L	
			Total Cadmium (Cd)	2018/07/09	<0.010		ug/L	
			Total Chromium (Cr)	2018/07/09	<1.0		ug/L	
			Total Cobalt (Co)	2018/07/09	<0.20		ug/L	
			Total Copper (Cu)	2018/07/09	<0.20		ug/L	
			Total Iron (Fe)	2018/07/09	<5.0		ug/L	
			Total Lead (Pb)	2018/07/09	<0.20		ug/L	
			Total Manganese (Mn)	2018/07/09	<1.0		ug/L	
			Total Molybdenum (Mo)	2018/07/09	<1.0		ug/L	
			Total Nickel (Ni)	2018/07/09	<1.0		ug/L	
			Total Selenium (Se)	2018/07/09	<0.10		ug/L	
			Total Silicon (Si)	2018/07/09	<100		ug/L	
			Total Silver (Ag)	2018/07/09	<0.020		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Strontium (Sr)	2018/07/09	<1.0		ug/L	
			Total Thallium (Tl)	2018/07/09	<0.010		ug/L	
			Total Tin (Sn)	2018/07/09	<5.0		ug/L	
			Total Titanium (Ti)	2018/07/09	<5.0		ug/L	
			Total Uranium (U)	2018/07/09	<0.10		ug/L	
			Total Vanadium (V)	2018/07/09	<5.0		ug/L	
			Total Zinc (Zn)	2018/07/09	<5.0		ug/L	
			Total Zirconium (Zr)	2018/07/09	<0.10		ug/L	
9054613	JC8	RPD	Total Aluminum (Al)	2018/07/09	NC		%	20
			Total Antimony (Sb)	2018/07/09	NC		%	20
			Total Arsenic (As)	2018/07/09	4.9		%	20
			Total Barium (Ba)	2018/07/09	2.2		%	20
			Total Beryllium (Be)	2018/07/09	NC		%	20
			Total Bismuth (Bi)	2018/07/09	NC		%	20
			Total Boron (B)	2018/07/09	NC		%	20
			Total Cadmium (Cd)	2018/07/09	NC		%	20
			Total Chromium (Cr)	2018/07/09	1.7		%	20
			Total Cobalt (Co)	2018/07/09	4.3		%	20
			Total Copper (Cu)	2018/07/09	0.18		%	20
			Total Iron (Fe)	2018/07/09	2.7		%	20
			Total Lead (Pb)	2018/07/09	NC		%	20
			Total Manganese (Mn)	2018/07/09	2.3		%	20
			Total Molybdenum (Mo)	2018/07/09	0.23		%	20
			Total Nickel (Ni)	2018/07/09	0.56		%	20
			Total Selenium (Se)	2018/07/09	2.7		%	20
			Total Silicon (Si)	2018/07/09	0.64		%	20
			Total Silver (Ag)	2018/07/09	NC		%	20
			Total Strontium (Sr)	2018/07/09	1.5		%	20
			Total Thallium (Tl)	2018/07/09	NC		%	20
			Total Tin (Sn)	2018/07/09	NC		%	20
			Total Titanium (Ti)	2018/07/09	NC		%	20
			Total Uranium (U)	2018/07/09	NC		%	20
			Total Vanadium (V)	2018/07/09	NC		%	20
			Total Zinc (Zn)	2018/07/09	NC		%	20
			Total Zirconium (Zr)	2018/07/09	NC		%	20
9055752	IC4	Spiked Blank	Total Organic Carbon (C)	2018/07/09		107	%	80 - 120
9055752	IC4	Method Blank	Total Organic Carbon (C)	2018/07/09	<0.50		mg/L	
9055756	JHW	Spiked Blank	Turbidity	2018/07/06		102	%	80 - 120
9055756	JHW	Method Blank	Turbidity	2018/07/06	<0.1		NTU	
9055756	JHW	RPD	Turbidity	2018/07/06	NC		%	20
9055880	OMA	Spiked Blank	True Colour	2018/07/06		89	%	80 - 120
9055880	OMA	Method Blank	True Colour	2018/07/06	<5		Col. Unit	
9055880	OMA	RPD	True Colour	2018/07/06	4.2		%	10
9055966	KAB	Method Blank	UV absorbance (254nm)	2018/07/09	<0.010		AU/cm	
9055966	KAB	RPD	UV absorbance (254nm)	2018/07/09	0.65		%	20
9057186	BB3	Matrix Spike	Dissolved Chloride (Cl)	2018/07/09		120	%	80 - 120
9057186	BB3	Spiked Blank	Dissolved Chloride (Cl)	2018/07/09		96	%	80 - 120
9057186	BB3	Method Blank	Dissolved Chloride (Cl)	2018/07/09	<1.0		mg/L	
9057186	BB3	RPD	Dissolved Chloride (Cl)	2018/07/09	0.48		%	20
9058121	TSO	Spiked Blank	Fluoride (F)	2018/07/10		104	%	80 - 120
9058121	TSO	Method Blank	Fluoride (F)	2018/07/10	<0.020		mg/L	
9058123	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2018/07/10		104	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

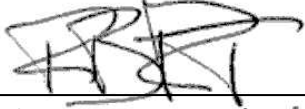
QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9058123	BB3	Method Blank	Dissolved Sulphate (SO4)	2018/07/10	<1.0		mg/L	
<p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).</p>									

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Company: North Cedar Improvement Dist.
Contact Name: JE Woods
Mailing Address: _____
Phone #: 250-361-5503
E-mail: INFO@NCID.BC.CA.
After Hours Contact #: _____

If your drinking water source services two or more homes, we strongly recommend that you contact local health authorities to find out how the Drinking Water Protection Act applies to this system. Please be aware that, in this situation, we are legally obligated to report results directly to local health authorities.

Maxxam Job #: _____

All information on this form must be completed before testing can commence

Please note your invoice may be subject to a \$60 minimum bill.

Payment Received: Yes No

Sample Collection

For determining drinking water quality, samples should be representative of the water that will be consumed; therefore, we suggest sampling at the kitchen tap. However, other sampling locations may be used to determine pre-treatment water quality or for troubleshooting purposes.

1. Remove aerator/screen from faucet.
2. Let the water run for 5 minutes.
3. Label the bottle with your name, date and time you are taking the sample.
4. Fill all bottle(s) provided. Take care not to touch the inside of the bottle or underside of cap.
5. Cap the sample and place it in fridge or small cooler with icepack.

Remember: It is important that you do not contaminate the sample as you handle the container. Wash your hands before you start and be careful not to touch the rim of the bottle or the inside of the cap.

DON'T:

- Don't rinse or boil any bottle you receive from the lab.
- Don't let the sample sit out overnight, please refrigerate.
- Don't freeze the sample.

Sample Transportation & Delivery

1. Samples should arrive at the laboratories (Courtenay or Victoria) within 24 hrs of sampling. Ship samples between Monday and Thursday to avoid lab scheduling conflicts.
2. The sample should be kept cool during transit (<8°C - refrigerated or packed on ice).
3. Fill in and submit with the sample around time and the lab's ability to



B853877_COC

It was collected you can use an

Same day shipping: Available from Ken's Transfer, Ace Courier. Please contact the lab for details.

Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are

SPECIAL INSTRUCTIONS:
Return Cooler Ship Sample Bottles (please specify)

Sample Identification (Sample Location &/or Description)	Sample Location (eg. Tap, Wellhead)	Date/Time Sampled (24hr)	PLEASE CIRCLE				ANALYSIS REQUESTED PLEASE SELECT BELOW					Report Drinking Water Criteria DWG17
			Samples from a Drinking Water Source? Y/N	Does source supply multiple households? Y/N	Are individuals drinking this water? Y/N	Are you on a boil water advisory? Y/N	Drinking Water Scan	Home Safety Scan	Total Metals Scan including Hardness & Hg	Total Coliform and E. Coli	TRANSMITTANCE UVT	
1 Raw Water Well # 1	Well Head	July 3. 18 0915	Y	Y	Y	Y	X	X	X			X
2			N	N	N	N						X
3			Y	Y	Y	Y						X
4			N	N	N	N						X
5			Y	Y	Y	Y						X

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms

Print name and sign		Date (yy/mm/dd)		Time (24hr)		Temperature on Receipt (°C)		Custody Seal					
Relinquished By:	Date (yy/mm/dd):	Time (24 hr):	Received by:	Date (yy/mm/dd):	Time (24hr):	Temperature on Receipt (°C):	A) 12	B) 12	C) 12	Present?	Yes	No	N/A
J. Crossley	2018/07/03	15:50	S. OSIPKO	18/07/03	13:52								
Print name and sign		Date (yy/mm/dd)		Time (24hr)		Temperature on Receipt (°C)		Custody Seal					
Laboratory Use Only		Date (yy/mm/dd)		Time (24hr)		Temperature on Receipt (°C)		Custody Seal					
Just sampled & rec'd on ice: <input type="checkbox"/>		Intact?		Yes		No		N/A					