



Your C.O.C. #: WI023435

**Attention: Dave Shepherd**

SHIPS POINT IMPROVEMENT DISTRICT  
7729 VIVIAN WAY  
FANNY BAY, BC  
CANADA V0R 1W0

**Report Date: 2020/05/06**

Report #: R2876176

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C028864**

**Received: 2020/04/29, 11:10**

Sample Matrix: Water  
# Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	3	N/A	2020/05/04	BBY6SOP-00026	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry (1)	3	N/A	2020/05/04	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Colour (True) by Kone Lab (1)	3	N/A	2020/05/01	BBY6SOP-00057	SM 23 2120 C m
Coliforms & E.coli by Quantitray (MPN)	3	N/A	2020/04/29	CTYSOP-00002	SM 23 9223
Conductivity @25C (1)	3	N/A	2020/05/04	BBY6SOP-00026	SM 23 2510 B m
Fluoride (1)	3	N/A	2020/05/05	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (1, 2)	3	N/A	2020/05/05	BBY WI-00033	Auto Calc
Mercury (Total) by CV (1)	3	2020/05/01	2020/05/01	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (1)	3	N/A	2020/05/05	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (1)	3	N/A	2020/05/04	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrate + Nitrite (N) (1)	3	N/A	2020/05/01	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA (1)	3	N/A	2020/05/01	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) (1)	3	N/A	2020/05/04	BBY WI-00033	Auto Calc
pH @25°C (1, 3)	3	N/A	2020/05/04	BBY6SOP-00026	SM 23 4500-H+ B m
Salinity by Conductivity Method (1)	3	N/A	2020/05/04	BBY6SOP-00026	SM 23 2520 B m
Total Dissolved Solids (Filt. Residue) (1)	3	2020/05/04	2020/05/05	BBY6SOP-00033	SM 23 2540 C m
Turbidity (1)	3	N/A	2020/05/01	BBY6SOP-00027	SM 23 2130 B m

**Remarks:**

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



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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. When sampling is not conducted by BV Labs, results relate to the supplied 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 BV Labs Vancouver

(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 CCME method requires 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 CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Customer Solutions, Western Canada Customer Experience Team

Email: customersolutionswest@bvlab.com

Phone# (833) 282-5227

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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BV Labs Job #: C028864  
Report Date: 2020/05/06

SHIPS POINT IMPROVEMENT DISTRICT  
Sampler Initials: DS

### RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		XS0948	XS0949	XS0950		
Sampling Date		2020/04/29 10:10	2020/04/29 10:20	2020/04/29 10:35		
COC Number		WI023435	WI023435	WI023435		
	UNITS	WELL #2 - RAW	WELL #3 - RAW	WELL #4 - RAW	RDL	QC Batch
<b>Misc. Inorganics</b>						
Salinity	g/L	0.060	0.070	0.070	0.010	9840163
RDL = Reportable Detection Limit						



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**DRINKING WATER SCAN - COURTENAY (WATER)**

BV Labs ID				XS0948	XS0949	XS0950		
Sampling Date				2020/04/29 10:10	2020/04/29 10:20	2020/04/29 10:35		
COC Number				WI023435	WI023435	WI023435		
	UNITS	MAC	AO	WELL #2 - RAW	WELL #3 - RAW	WELL #4 - RAW	RDL	QC Batch
<b>ANIONS</b>								
Nitrite (N)	mg/L	1	-	<0.0050	<0.0050	<0.0050	0.0050	9837766
<b>Calculated Parameters</b>								
Total Hardness (CaCO3)	mg/L	-	-	55.8	65.2	68.2	0.50	9835065
Nitrate (N)	mg/L	10	-	0.988	0.154	0.222	0.020	9835245
<b>Misc. Inorganics</b>								
Conductivity	uS/cm	-	-	130	140	150	2.0	9840162
pH	pH	-	-	7.60	7.80	7.82	N/A	9840161
Total Dissolved Solids	mg/L	-	-	110	84	120	10	9839725
<b>Anions</b>								
Alkalinity (PP as CaCO3)	mg/L	-	-	<1.0	<1.0	<1.0	1.0	9840160
Alkalinity (Total as CaCO3)	mg/L	-	-	48	62	67	1.0	9840160
Bicarbonate (HCO3)	mg/L	-	-	59	75	81	1.0	9840160
Carbonate (CO3)	mg/L	-	-	<1.0	<1.0	<1.0	1.0	9840160
Dissolved Fluoride (F)	mg/L	1.5	-	<0.050	<0.050	<0.050	0.050	9839375
Hydroxide (OH)	mg/L	-	-	<1.0	<1.0	<1.0	1.0	9840160
Dissolved Chloride (Cl)	mg/L	-	250	5.7	5.6	5.6	1.0	9840109
Dissolved Sulphate (SO4)	mg/L	-	500	3.2	<1.0	1.1	1.0	9840109
<b>MISCELLANEOUS</b>								
True Colour	Col. Unit	-	15	<5.0	<5.0	<5.0	5.0	9838169
<b>Nutrients</b>								
Nitrate plus Nitrite (N)	mg/L	-	-	0.988	0.154	0.222	0.020	9837765
<b>Physical Properties</b>								
Turbidity	NTU	see remark	see remark	<0.10	0.25	0.15	0.10	9838120
<b>Elements</b>								
Total Mercury (Hg)	ug/L	1	-	<0.0019	<0.0019	<0.0019	0.0019	9837845
<b>Total Metals by ICPMS</b>								
Total Aluminum (Al)	ug/L	-	-	<3.0	<3.0	<3.0	3.0	9839278
Total Antimony (Sb)	ug/L	6	-	<0.50	<0.50	<0.50	0.50	9839278
Total Arsenic (As)	ug/L	10	-	<0.10	<0.10	0.18	0.10	9839278
Total Barium (Ba)	ug/L	1000	-	<1.0	<1.0	<1.0	1.0	9839278
Total Beryllium (Be)	ug/L	-	-	<0.10	<0.10	<0.10	0.10	9839278
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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### DRINKING WATER SCAN - COURTENAY (WATER)

BV Labs ID				XS0948	XS0949	XS0950		
Sampling Date				2020/04/29 10:10	2020/04/29 10:20	2020/04/29 10:35		
COC Number				WI023435	WI023435	WI023435		
	UNITS	MAC	AO	WELL #2 - RAW	WELL #3 - RAW	WELL #4 - RAW	RDL	QC Batch
Total Bismuth (Bi)	ug/L	-	-	<1.0	<1.0	<1.0	1.0	9839278
Total Boron (B)	ug/L	5000	-	<50	<50	<50	50	9839278
Total Cadmium (Cd)	ug/L	5	-	<0.010	<0.010	<0.010	0.010	9839278
Total Chromium (Cr)	ug/L	50	-	<1.0	<1.0	<1.0	1.0	9839278
Total Cobalt (Co)	ug/L	-	-	<0.20	<0.20	<0.20	0.20	9839278
Total Copper (Cu)	ug/L	2000	1000	0.25	<0.20	0.31	0.20	9839278
Total Iron (Fe)	ug/L	-	300	<5.0	26.0	34.0	5.0	9839278
Total Lead (Pb)	ug/L	5	-	<0.20	<0.20	<0.20	0.20	9839278
Total Manganese (Mn)	ug/L	120	20	1.3	<1.0	<b>23.1</b>	1.0	9839278
Total Molybdenum (Mo)	ug/L	-	-	<1.0	<1.0	<1.0	1.0	9839278
Total Nickel (Ni)	ug/L	-	-	<1.0	<1.0	<1.0	1.0	9839278
Total Selenium (Se)	ug/L	50	-	<0.10	<0.10	<0.10	0.10	9839278
Total Silicon (Si)	ug/L	-	-	9090	8380	9280	100	9839278
Total Silver (Ag)	ug/L	-	-	<0.020	<0.020	<0.020	0.020	9839278
Total Strontium (Sr)	ug/L	7000	-	26.3	27.9	31.2	1.0	9839278
Total Thallium (Tl)	ug/L	-	-	<0.010	<0.010	<0.010	0.010	9839278
Total Tin (Sn)	ug/L	-	-	<5.0	<5.0	<5.0	5.0	9839278
Total Titanium (Ti)	ug/L	-	-	<5.0	<5.0	<5.0	5.0	9839278
Total Uranium (U)	ug/L	20	-	<0.10	<0.10	<0.10	0.10	9839278
Total Vanadium (V)	ug/L	-	-	<5.0	<5.0	<5.0	5.0	9839278
Total Zinc (Zn)	ug/L	-	5000	<5.0	<5.0	<5.0	5.0	9839278
Total Zirconium (Zr)	ug/L	-	-	<0.10	<0.10	<0.10	0.10	9839278
Total Calcium (Ca)	mg/L	-	-	15.1	16.9	17.7	0.050	9835289
Total Magnesium (Mg)	mg/L	-	-	4.40	5.57	5.83	0.050	9835289
Total Potassium (K)	mg/L	-	-	0.171	0.262	0.293	0.050	9835289
Total Sodium (Na)	mg/L	-	200	3.59	3.14	3.49	0.050	9835289
Total Sulphur (S)	mg/L	-	-	<3.0	<3.0	<3.0	3.0	9835289
<b>Microbiological Param.</b>								
Total Coliforms (QT)	MPN/100mL	0	-	<b>15</b>	0	0	N/A	9836767
E. coli (QT)	MPN/100mL	0	-	<b>1.0</b>	0	0	N/A	9836767
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
N/A = Not Applicable								



### GENERAL COMMENTS

MAC,AO: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, June 2019.

MAC = Maximum Acceptable Concentration

AO = Aesthetic Objectives

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.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

**Results relate only to the items tested.**



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SHIPS POINT IMPROVEMENT DISTRICT  
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### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9837765	IC4	Matrix Spike	Nitrate plus Nitrite (N)	2020/05/01		102	%	80 - 120
9837765	IC4	Spiked Blank	Nitrate plus Nitrite (N)	2020/05/01		105	%	80 - 120
9837765	IC4	Method Blank	Nitrate plus Nitrite (N)	2020/05/01	<0.020		mg/L	
9837765	IC4	RPD	Nitrate plus Nitrite (N)	2020/05/01	3.6		%	25
9837766	IC4	Matrix Spike	Nitrite (N)	2020/05/01		96	%	80 - 120
9837766	IC4	Spiked Blank	Nitrite (N)	2020/05/01		96	%	80 - 120
9837766	IC4	Method Blank	Nitrite (N)	2020/05/01	<0.0050		mg/L	
9837766	IC4	RPD	Nitrite (N)	2020/05/01	NC		%	20
9837845	CJY	Matrix Spike [XS0949-03]	Total Mercury (Hg)	2020/05/01		99	%	80 - 120
9837845	CJY	Spiked Blank	Total Mercury (Hg)	2020/05/01		109	%	80 - 120
9837845	CJY	Method Blank	Total Mercury (Hg)	2020/05/01	<0.0019		ug/L	
9837845	CJY	RPD [XS0948-03]	Total Mercury (Hg)	2020/05/01	NC		%	20
9838120	WAY	Spiked Blank	Turbidity	2020/05/01		99	%	80 - 120
9838120	WAY	Method Blank	Turbidity	2020/05/01	<0.10		NTU	
9838120	WAY	RPD [XS0948-01]	Turbidity	2020/05/01	NC		%	20
9838169	BO3	Spiked Blank	True Colour	2020/05/01		94	%	80 - 120
9838169	BO3	Method Blank	True Colour	2020/05/01	<5.0		Col. Unit	
9838169	BO3	RPD [XS0949-01]	True Colour	2020/05/01	NC		%	20
9839278	VBA	Matrix Spike [XS0948-02]	Total Aluminum (Al)	2020/05/04		106	%	80 - 120
			Total Antimony (Sb)	2020/05/04		95	%	80 - 120
			Total Arsenic (As)	2020/05/04		105	%	80 - 120
			Total Barium (Ba)	2020/05/04		104	%	80 - 120
			Total Beryllium (Be)	2020/05/04		98	%	80 - 120
			Total Bismuth (Bi)	2020/05/04		94	%	80 - 120
			Total Boron (B)	2020/05/04		97	%	80 - 120
			Total Cadmium (Cd)	2020/05/04		99	%	80 - 120
			Total Chromium (Cr)	2020/05/04		97	%	80 - 120
			Total Cobalt (Co)	2020/05/04		94	%	80 - 120
			Total Copper (Cu)	2020/05/04		92	%	80 - 120
			Total Iron (Fe)	2020/05/04		98	%	80 - 120
			Total Lead (Pb)	2020/05/04		100	%	80 - 120
			Total Manganese (Mn)	2020/05/04		98	%	80 - 120
			Total Molybdenum (Mo)	2020/05/04		98	%	80 - 120
			Total Nickel (Ni)	2020/05/04		94	%	80 - 120
			Total Selenium (Se)	2020/05/04		105	%	80 - 120
			Total Silicon (Si)	2020/05/04		NC	%	80 - 120
			Total Silver (Ag)	2020/05/04		99	%	80 - 120
			Total Strontium (Sr)	2020/05/04		108	%	80 - 120
			Total Thallium (Tl)	2020/05/04		95	%	80 - 120
			Total Tin (Sn)	2020/05/04		96	%	80 - 120
			Total Titanium (Ti)	2020/05/04		102	%	80 - 120
			Total Uranium (U)	2020/05/04		104	%	80 - 120
			Total Vanadium (V)	2020/05/04		100	%	80 - 120
			Total Zinc (Zn)	2020/05/04		96	%	80 - 120
			Total Zirconium (Zr)	2020/05/04		101	%	80 - 120
9839278	VBA	Spiked Blank	Total Aluminum (Al)	2020/05/04		103	%	80 - 120
			Total Antimony (Sb)	2020/05/04		93	%	80 - 120
			Total Arsenic (As)	2020/05/04		103	%	80 - 120
			Total Barium (Ba)	2020/05/04		102	%	80 - 120
			Total Beryllium (Be)	2020/05/04		95	%	80 - 120
			Total Bismuth (Bi)	2020/05/04		92	%	80 - 120
			Total Boron (B)	2020/05/04		92	%	80 - 120
			Total Cadmium (Cd)	2020/05/04		97	%	80 - 120
			Total Chromium (Cr)	2020/05/04		95	%	80 - 120
			Total Cobalt (Co)	2020/05/04		93	%	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 Copper (Cu)	2020/05/04		92	%	80 - 120
			Total Iron (Fe)	2020/05/04		99	%	80 - 120
			Total Lead (Pb)	2020/05/04		98	%	80 - 120
			Total Manganese (Mn)	2020/05/04		96	%	80 - 120
			Total Molybdenum (Mo)	2020/05/04		95	%	80 - 120
			Total Nickel (Ni)	2020/05/04		92	%	80 - 120
			Total Selenium (Se)	2020/05/04		101	%	80 - 120
			Total Silicon (Si)	2020/05/04		104	%	80 - 120
			Total Silver (Ag)	2020/05/04		96	%	80 - 120
			Total Strontium (Sr)	2020/05/04		106	%	80 - 120
			Total Thallium (Tl)	2020/05/04		93	%	80 - 120
			Total Tin (Sn)	2020/05/04		94	%	80 - 120
			Total Titanium (Ti)	2020/05/04		97	%	80 - 120
			Total Uranium (U)	2020/05/04		99	%	80 - 120
			Total Vanadium (V)	2020/05/04		96	%	80 - 120
			Total Zinc (Zn)	2020/05/04		95	%	80 - 120
			Total Zirconium (Zr)	2020/05/04		97	%	80 - 120
9839278	VBA	Method Blank	Total Aluminum (Al)	2020/05/04	<3.0		ug/L	
			Total Antimony (Sb)	2020/05/04	<0.50		ug/L	
			Total Arsenic (As)	2020/05/04	<0.10		ug/L	
			Total Barium (Ba)	2020/05/04	<1.0		ug/L	
			Total Beryllium (Be)	2020/05/04	<0.10		ug/L	
			Total Bismuth (Bi)	2020/05/04	<1.0		ug/L	
			Total Boron (B)	2020/05/04	<50		ug/L	
			Total Cadmium (Cd)	2020/05/04	<0.010		ug/L	
			Total Chromium (Cr)	2020/05/04	<1.0		ug/L	
			Total Cobalt (Co)	2020/05/04	<0.20		ug/L	
			Total Copper (Cu)	2020/05/04	<0.20		ug/L	
			Total Iron (Fe)	2020/05/04	<5.0		ug/L	
			Total Lead (Pb)	2020/05/04	<0.20		ug/L	
			Total Manganese (Mn)	2020/05/04	<1.0		ug/L	
			Total Molybdenum (Mo)	2020/05/04	<1.0		ug/L	
			Total Nickel (Ni)	2020/05/04	<1.0		ug/L	
			Total Selenium (Se)	2020/05/04	<0.10		ug/L	
			Total Silicon (Si)	2020/05/04	<100		ug/L	
			Total Silver (Ag)	2020/05/04	<0.020		ug/L	
			Total Strontium (Sr)	2020/05/04	<1.0		ug/L	
			Total Thallium (Tl)	2020/05/04	<0.010		ug/L	
			Total Tin (Sn)	2020/05/04	<5.0		ug/L	
			Total Titanium (Ti)	2020/05/04	<5.0		ug/L	
			Total Uranium (U)	2020/05/04	<0.10		ug/L	
			Total Vanadium (V)	2020/05/04	<5.0		ug/L	
			Total Zinc (Zn)	2020/05/04	<5.0		ug/L	
			Total Zirconium (Zr)	2020/05/04	<0.10		ug/L	
9839278	VBA	RPD [XS0948-02]	Total Aluminum (Al)	2020/05/04	NC		%	20
			Total Antimony (Sb)	2020/05/04	NC		%	20
			Total Arsenic (As)	2020/05/04	NC		%	20
			Total Barium (Ba)	2020/05/04	NC		%	20
			Total Beryllium (Be)	2020/05/04	NC		%	20
			Total Bismuth (Bi)	2020/05/04	NC		%	20
			Total Boron (B)	2020/05/04	NC		%	20
			Total Cadmium (Cd)	2020/05/04	NC		%	20
			Total Chromium (Cr)	2020/05/04	NC		%	20
			Total Cobalt (Co)	2020/05/04	NC		%	20
			Total Copper (Cu)	2020/05/04	1.2		%	20





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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2020/05/04	NC		%	20
			Total Lead (Pb)	2020/05/04	NC		%	20
			Total Manganese (Mn)	2020/05/04	6.5		%	20
			Total Molybdenum (Mo)	2020/05/04	NC		%	20
			Total Nickel (Ni)	2020/05/04	NC		%	20
			Total Selenium (Se)	2020/05/04	NC		%	20
			Total Silicon (Si)	2020/05/04	0.46		%	20
			Total Silver (Ag)	2020/05/04	NC		%	20
			Total Strontium (Sr)	2020/05/04	0.87		%	20
			Total Thallium (Tl)	2020/05/04	NC		%	20
			Total Tin (Sn)	2020/05/04	NC		%	20
			Total Titanium (Ti)	2020/05/04	NC		%	20
			Total Uranium (U)	2020/05/04	NC		%	20
			Total Vanadium (V)	2020/05/04	NC		%	20
			Total Zinc (Zn)	2020/05/04	NC		%	20
			Total Zirconium (Zr)	2020/05/04	NC		%	20
9839375	BO3	Matrix Spike [XS0950-01]	Dissolved Fluoride (F)	2020/05/05		108	%	80 - 120
9839375	BO3	Spiked Blank	Dissolved Fluoride (F)	2020/05/05		106	%	80 - 120
9839375	BO3	Method Blank	Dissolved Fluoride (F)	2020/05/05	<0.050		mg/L	
9839375	BO3	RPD [XS0949-01]	Dissolved Fluoride (F)	2020/05/05	NC		%	20
9839725	WZ1	Matrix Spike	Total Dissolved Solids	2020/05/05		105	%	80 - 120
9839725	WZ1	Spiked Blank	Total Dissolved Solids	2020/05/05		102	%	80 - 120
9839725	WZ1	Method Blank	Total Dissolved Solids	2020/05/05	<10		mg/L	
9839725	WZ1	RPD [XS0949-01]	Total Dissolved Solids	2020/05/05	6.9		%	20
9840109	BB3	Spiked Blank	Dissolved Chloride (Cl)	2020/05/04		102	%	80 - 120
			Dissolved Sulphate (SO4)	2020/05/04		100	%	80 - 120
9840109	BB3	Method Blank	Dissolved Chloride (Cl)	2020/05/04	<1.0		mg/L	
			Dissolved Sulphate (SO4)	2020/05/04	<1.0		mg/L	
9840160	WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2020/05/04		98	%	80 - 120
9840160	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2020/05/04		94	%	80 - 120
9840160	WAY	Method Blank	Alkalinity (PP as CaCO3)	2020/05/04	<1.0		mg/L	
			Alkalinity (Total as CaCO3)	2020/05/04	<1.0		mg/L	
			Bicarbonate (HCO3)	2020/05/04	<1.0		mg/L	
			Carbonate (CO3)	2020/05/04	<1.0		mg/L	
			Hydroxide (OH)	2020/05/04	<1.0		mg/L	
9840160	WAY	RPD	Alkalinity (PP as CaCO3)	2020/05/04	NC		%	20
			Alkalinity (Total as CaCO3)	2020/05/04	2.8		%	20
			Bicarbonate (HCO3)	2020/05/04	2.8		%	20
			Carbonate (CO3)	2020/05/04	NC		%	20
			Hydroxide (OH)	2020/05/04	NC		%	20
9840161	WAY	Spiked Blank	pH	2020/05/04		101	%	97 - 103
9840161	WAY	RPD	pH	2020/05/04	0		%	N/A
9840162	WAY	Spiked Blank	Conductivity	2020/05/04		100	%	80 - 120
9840162	WAY	Method Blank	Conductivity	2020/05/04	<2.0		uS/cm	



BUREAU  
VERITAS

BV Labs Job #: C028864  
Report Date: 2020/05/06

SHIPS POINT IMPROVEMENT DISTRICT  
Sampler Initials: DS

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	9840163	WAY	Method Blank	Salinity	2020/05/04	<0.010		g/L	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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)

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).



### VALIDATION SIGNATURE PAGE

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

A handwritten signature in black ink, appearing to be "D. Huang", written over a horizontal line.

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

WI 023435

DRINKING WATER SUBMISSION CHAIN OF CUSTODY RECORD

29-Apr-20 11:10

Customer Solutions

C028864

MVS



BUREAU VERITAS

Victoria: Unit 1, 851 Viewfield Rd, Victoria, BC V9A 4V2 Ph: (250) 365-6112 Toll Free: (833) 282-5227
Courtenay: 2755 B Moray Ave, Courtenay, BC V9N 8M9 Ph: (250) 338-7796 Toll Free: (833) 282-5227

BV Job #:

Company (Invoicing): Ships Point Improvement Dist.

Company (Reporting):

Contact Name: Dave Shepherd

Mailing Address: 7729 Vivian Way

Fanny Bay Victoria

Phone #: 778 898 3035

E-mail: Dave.Shepherd@spid.ca

VANCOUVER ISLAND HEALTH AUTHORITY
Medical Health Officer: 1.800.204.6166
Drinking Water Officer: 250.755.6215

All information on this form must be completed

If your drinking water source services two or more homes authorities to find out how the Drinking Water Protection Act situation, we are legally obligated to report results directly

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 out the Chain of Custody (COC) form beside these instructions and submit with the sample. Incomplete or missing COC's will result in delays impacting turnaround time and the lab's ability to proceed with time sensitive tests.
4. Delivery Options: Personally deliver samples to Courtenay or Victoria (Samples will be forwarded to Burnaby on your behalf unless analysis is completed locally in Courtenay. Please consider sample hold times.) Overnight shipping to Burnaby: If you ship a sample on the same day that it was collected you can use an overnight courier. Same day shipping: Available in some areas. Please contact the lab for details.

After Hours Contact #: 778 898 3035

Regular Turnaround Time (TAT) (5 days for most tests) RUSH Please contact the lab Surcharges will be applied

Project Name: Date Required:

SPECIAL INSTRUCTIONS:

Return Cooler Ship Sample Bottles (please specify)

Payment Received: Yes No

Table with columns: PLEASE CIRCLE, ANALYSIS REQUESTED PLEASE SELECT BELOW, 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. Coll, SALINITY BY CONDUCTIVITY, Report Current Drinking Water Criteria

Table with columns: Sample Identification Location &/or Description, Sample Location (eg. Tap, Wellhead), Date/Time Sampled (24hr)

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at http://www.bvlab.com/terms-and-conditions

Form with fields: Print name and sign, Relinquished By: Dave Sheppard, Date: 20/04/20, Time: 11:10, Received by: Michelle Wortsch, Date: 20/04/20, Time: 11:10, Temperature on Receipt (°C): A) 11 B) 10 C) 10, Custody Seal Present? Intact?

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS AND SAMPLES ANALYZED OUTSIDE REGULATORY HOLD TIMES.

COC-1035