



Your C.O.C. #: WI031086

**Attention: Dave Shepherd**

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

**Report Date: 2022/05/04**

Report #: R3168804

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C227344**

**Received: 2022/04/27, 09:56**

Sample Matrix: Drinking 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	2022/04/28	BBY6SOP-00026	SM 23 2320 B m
Chloride/Sulphate by Auto Colourimetry (1)	3	N/A	2022/05/04	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Colour (True) by Kone Lab (1)	3	N/A	2022/05/02	BBY6SOP-00057	SM 23 2120 C m
Conductivity @25C (1)	3	N/A	2022/04/28	BBY6SOP-00026	SM 23 2510 B m
Fluoride (1)	3	N/A	2022/04/30	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (1, 2)	3	N/A	2022/04/29	BBY WI-00033	Auto Calc
Mercury (Total) by CV (1)	3	2022/04/29	2022/04/29	AB SOP-00084	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (1)	3	N/A	2022/04/29	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (1)	3	N/A	2022/04/28	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Nitrate + Nitrite (N) (1)	3	N/A	2022/04/29	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA (1)	3	N/A	2022/04/29	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) (1)	3	N/A	2022/05/03	BBY WI-00033	Auto Calc
pH @25°C (1, 3)	3	N/A	2022/04/28	BBY6SOP-00026	SM 23 4500-H+ B m
Salinity by Conductivity Method (1)	1	N/A	2022/05/02	BBY6SOP-00026	SM 23 2520 B m
Salinity by Conductivity Method (1)	2	N/A	2022/05/03	BBY6SOP-00026	SM 23 2520 B m
Total Dissolved Solids (Filt. Residue) (1)	3	2022/05/02	2022/05/03	BBY6SOP-00033	SM 23 2540 C m
Tot Coliform/E.Coli by MF-Chromocult(PW) (1)	3	N/A	2022/04/28	BBY4SOP-00143	Merck KGaA Version 1
Turbidity (1)	3	N/A	2022/04/28	BBY6SOP-00027	SM 23 2130 B m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas 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 Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless



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otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

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 Bureau Veritas, 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 Bureau Veritas Vancouver, 4606 Canada Way , Burnaby, BC, V5G 1K5

(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 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@bureauveritas.com

Phone# (833) 282-5227

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Bureau Veritas 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.



**RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER**

Bureau Veritas ID		ASB622	ASB623	ASB624		
Sampling Date		2022/04/27 08:30	2022/04/27 08:50	2022/04/27 09:00		
COC Number		WI031086	WI031086	WI031086		
	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	A567406
RDL = Reportable Detection Limit						



**DRINKING WATER PACKAGE (REGULATED)**

Bureau Veritas ID					ASB622	ASB623		
Sampling Date					2022/04/27 08:30	2022/04/27 08:50		
COC Number					WI031086	WI031086		
	UNITS	MAC	AO	OG	WELL #2 (RAW)	WELL #3 (RAW)	RDL	QC Batch
<b>ANIONS</b>								
Nitrite (N)	mg/L	1	-	-	<0.0050	<0.0050	0.0050	A564658
<b>Calculated Parameters</b>								
Total Hardness (CaCO3)	mg/L	-	-	-	56.7	68.1	0.50	A561585
Nitrate (N)	mg/L	10	-	-	1.23	0.173	0.020	A561588
<b>Misc. Inorganics</b>								
Conductivity	uS/cm	-	-	-	140	150	2.0	A563508
pH	pH	-	-	7.0:10.5	7.22	7.30	N/A	A563507
Total Dissolved Solids	mg/L	-	500	-	82	90	10	A562971
<b>Anions</b>								
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	<1.0	1.0	A563509
Alkalinity (Total as CaCO3)	mg/L	-	-	-	56	69	1.0	A563509
Bicarbonate (HCO3)	mg/L	-	-	-	68	84	1.0	A563509
Carbonate (CO3)	mg/L	-	-	-	<1.0	<1.0	1.0	A563509
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	<0.050	0.050	A564857
Hydroxide (OH)	mg/L	-	-	-	<1.0	<1.0	1.0	A563509
Chloride (Cl)	mg/L	-	250	-	6.7	6.7	1.0	A568243
Sulphate (SO4)	mg/L	-	500	-	4.2	1.3	1.0	A568243
<b>MISCELLANEOUS</b>								
True Colour	Col. Unit	-	15	-	<5.0	<5.0	5.0	A564676
<b>Nutrients</b>								
Nitrate plus Nitrite (N)	mg/L	-	-	-	1.23	0.173	0.020	A564657
<b>Physical Properties</b>								
Turbidity	NTU	see remark	see remark	see remark	0.32	0.18	0.10	A562737
<b>Elements</b>								
Total Mercury (Hg)	ug/L	1	-	-	<0.0019	<0.0019	0.0019	A563939
<b>Total Metals by ICPMS</b>								
Total Aluminum (Al)	ug/L	2900	-	100	<3.0	<3.0	3.0	A563022
Total Antimony (Sb)	ug/L	6	-	-	<0.50	<0.50	0.50	A563022
Total Arsenic (As)	ug/L	10	-	-	<0.10	<0.10	0.10	A563022
Total Barium (Ba)	ug/L	2000	-	-	<1.0	<1.0	1.0	A563022
Total Boron (B)	ug/L	5000	-	-	<50	<50	50	A563022
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	<0.010	0.010	A563022
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit N/A = Not Applicable								



**DRINKING WATER PACKAGE (REGULATED)**

Bureau Veritas ID					ASB622	ASB623		
Sampling Date					2022/04/27 08:30	2022/04/27 08:50		
COC Number					WI031086	WI031086		
	UNITS	MAC	AO	OG	WELL #2 (RAW)	WELL #3 (RAW)	RDL	QC Batch
Total Chromium (Cr)	ug/L	50	-	-	<1.0	<1.0	1.0	A563022
Total Cobalt (Co)	ug/L	-	-	-	<0.20	<0.20	0.20	A563022
Total Copper (Cu)	ug/L	2000	1000	-	0.36	0.28	0.20	A563022
Total Iron (Fe)	ug/L	-	300	-	<5.0	41.5	5.0	A563022
Total Lead (Pb)	ug/L	5	-	-	<0.20	<0.20	0.20	A563022
Total Manganese (Mn)	ug/L	120	20	-	2.2	5.1	1.0	A563022
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	<1.0	1.0	A563022
Total Nickel (Ni)	ug/L	-	-	-	<1.0	<1.0	1.0	A563022
Total Selenium (Se)	ug/L	50	-	-	<0.10	<0.10	0.10	A563022
Total Silicon (Si)	ug/L	-	-	-	10500	9090	100	A563022
Total Silver (Ag)	ug/L	-	-	-	<0.020	<0.020	0.020	A563022
Total Strontium (Sr)	ug/L	7000	-	-	26.6	28.8	1.0	A563022
Total Uranium (U)	ug/L	20	-	-	<0.10	<0.10	0.10	A563022
Total Vanadium (V)	ug/L	-	-	-	<5.0	<5.0	5.0	A563022
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	<5.0	5.0	A563022
Total Calcium (Ca)	mg/L	-	-	-	15.4	17.6	0.050	A561587
Total Magnesium (Mg)	mg/L	-	-	-	4.44	5.85	0.050	A561587
Total Potassium (K)	mg/L	-	-	-	0.185	0.262	0.050	A561587
Total Sodium (Na)	mg/L	-	200	-	3.69	3.16	0.050	A561587
Total Sulphur (S)	mg/L	-	-	-	<3.0	<3.0	3.0	A561587
<b>Microbiological Param.</b>								
Total Coliforms	CFU/100mL	0	-	-	0	0	N/A	A562862
E. coli	CFU/100mL	0	-	-	0	0	N/A	A562862
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
N/A = Not Applicable								



BUREAU  
VERITAS

Bureau Veritas Job #: C227344  
Report Date: 2022/05/04

SHIPS POINT IMPROVEMENT DISTRICT

### DRINKING WATER PACKAGE (REGULATED)

<b>Bureau Veritas ID</b>					ASB624		
<b>Sampling Date</b>					2022/04/27 09:00		
<b>COC Number</b>					WI031086		
	<b>UNITS</b>	<b>MAC</b>	<b>AO</b>	<b>OG</b>	<b>WELL #4 (RAW)</b>	<b>RDL</b>	<b>QC Batch</b>
<b>ANIONS</b>							
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050	A564658
<b>Calculated Parameters</b>							
Total Hardness (CaCO3)	mg/L	-	-	-	68.0	0.50	A561585
Nitrate (N)	mg/L	10	-	-	0.127	0.020	A561588
<b>Misc. Inorganics</b>							
Conductivity	uS/cm	-	-	-	160	2.0	A563508
pH	pH	-	-	7.0:10.5	7.23	N/A	A563507
Total Dissolved Solids	mg/L	-	500	-	92	10	A562971
<b>Anions</b>							
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0	A563509
Alkalinity (Total as CaCO3)	mg/L	-	-	-	70	1.0	A563509
Bicarbonate (HCO3)	mg/L	-	-	-	86	1.0	A563509
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0	A563509
Dissolved Fluoride (F)	mg/L	1.5	-	-	<0.050	0.050	A565099
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0	A563509
Chloride (Cl)	mg/L	-	250	-	6.6	1.0	A568243
Sulphate (SO4)	mg/L	-	500	-	1.3	1.0	A568243
<b>MISCELLANEOUS</b>							
True Colour	Col. Unit	-	15	-	<5.0	5.0	A564676
<b>Nutrients</b>							
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.127	0.020	A564657
<b>Physical Properties</b>							
Turbidity	NTU	see remark	see remark	see remark	<0.10	0.10	A562737
<b>Elements</b>							
Total Mercury (Hg)	ug/L	1	-	-	<0.0019	0.0019	A563939
<b>Total Metals by ICPMS</b>							
Total Aluminum (Al)	ug/L	2900	-	100	<3.0	3.0	A563022
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50	A563022
Total Arsenic (As)	ug/L	10	-	-	0.17	0.10	A563022
Total Barium (Ba)	ug/L	2000	-	-	<1.0	1.0	A563022
Total Boron (B)	ug/L	5000	-	-	<50	50	A563022
Total Cadmium (Cd)	ug/L	7	-	-	<0.010	0.010	A563022
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
N/A = Not Applicable							



**DRINKING WATER PACKAGE (REGULATED)**

<b>Bureau Veritas ID</b>					ASB624		
<b>Sampling Date</b>					2022/04/27 09:00		
<b>COC Number</b>					WI031086		
	<b>UNITS</b>	<b>MAC</b>	<b>AO</b>	<b>OG</b>	<b>WELL #4 (RAW)</b>	<b>RDL</b>	<b>QC Batch</b>
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0	A563022
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20	A563022
Total Copper (Cu)	ug/L	2000	1000	-	0.26	0.20	A563022
Total Iron (Fe)	ug/L	-	300	-	43.3	5.0	A563022
Total Lead (Pb)	ug/L	5	-	-	<0.20	0.20	A563022
Total Manganese (Mn)	ug/L	120	20	-	<b>22.1</b>	1.0	A563022
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0	A563022
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0	A563022
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10	A563022
Total Silicon (Si)	ug/L	-	-	-	9870	100	A563022
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020	A563022
Total Strontium (Sr)	ug/L	7000	-	-	30.7	1.0	A563022
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10	A563022
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0	A563022
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0	A563022
Total Calcium (Ca)	mg/L	-	-	-	17.5	0.050	A561587
Total Magnesium (Mg)	mg/L	-	-	-	5.89	0.050	A561587
Total Potassium (K)	mg/L	-	-	-	0.296	0.050	A561587
Total Sodium (Na)	mg/L	-	200	-	3.33	0.050	A561587
Total Sulphur (S)	mg/L	-	-	-	<3.0	3.0	A561587
<b>Microbiological Param.</b>							
Total Coliforms	CFU/100mL	0	-	-	0	N/A	A562862
E. coli	CFU/100mL	0	-	-	0	N/A	A562862
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

Sample ASB622 [WELL #2 (RAW)] : Sample was analyzed past method specified hold time for Colour (True) by Kone Lab. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample ASB623 [WELL #3 (RAW)] : Sample was analyzed past method specified hold time for Colour (True) by Kone Lab. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample ASB624 [WELL #4 (RAW)] : Sample was analyzed past method specified hold time for Colour (True) by Kone Lab. 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, September 2020.

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.

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

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





BUREAU  
VERITAS

Bureau Veritas Job #: C227344  
Report Date: 2022/05/04

SHIPS POINT IMPROVEMENT DISTRICT

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A562737	SYC	Spiked Blank	Turbidity	2022/04/28		104	%	80 - 120
A562737	SYC	Method Blank	Turbidity	2022/04/28	<0.10		NTU	
A562737	SYC	RPD [ASB623-02]	Turbidity	2022/04/28	1.1		%	20
A562971	WZ1	Matrix Spike	Total Dissolved Solids	2022/05/03		102	%	80 - 120
A562971	WZ1	Spiked Blank	Total Dissolved Solids	2022/05/03		96	%	80 - 120
A562971	WZ1	Method Blank	Total Dissolved Solids	2022/05/03	<10		mg/L	
A562971	WZ1	RPD	Total Dissolved Solids	2022/05/03	5.1		%	20
A563022	SOM	Matrix Spike [ASB622-04]	Total Aluminum (Al)	2022/04/28		99	%	80 - 120
			Total Antimony (Sb)	2022/04/28		99	%	80 - 120
			Total Arsenic (As)	2022/04/28		102	%	80 - 120
			Total Barium (Ba)	2022/04/28		98	%	80 - 120
			Total Boron (B)	2022/04/28		108	%	80 - 120
			Total Cadmium (Cd)	2022/04/28		99	%	80 - 120
			Total Chromium (Cr)	2022/04/28		99	%	80 - 120
			Total Cobalt (Co)	2022/04/28		97	%	80 - 120
			Total Copper (Cu)	2022/04/28		97	%	80 - 120
			Total Iron (Fe)	2022/04/28		99	%	80 - 120
			Total Lead (Pb)	2022/04/28		101	%	80 - 120
			Total Manganese (Mn)	2022/04/28		99	%	80 - 120
			Total Molybdenum (Mo)	2022/04/28		103	%	80 - 120
			Total Nickel (Ni)	2022/04/28		98	%	80 - 120
			Total Selenium (Se)	2022/04/28		99	%	80 - 120
			Total Silicon (Si)	2022/04/28		NC	%	80 - 120
			Total Silver (Ag)	2022/04/28		98	%	80 - 120
			Total Strontium (Sr)	2022/04/28		103	%	80 - 120
			Total Uranium (U)	2022/04/28		111	%	80 - 120
			Total Vanadium (V)	2022/04/28		100	%	80 - 120
			Total Zinc (Zn)	2022/04/28		111	%	80 - 120
A563022	SOM	Spiked Blank	Total Aluminum (Al)	2022/04/28		99	%	80 - 120
			Total Antimony (Sb)	2022/04/28		96	%	80 - 120
			Total Arsenic (As)	2022/04/28		98	%	80 - 120
			Total Barium (Ba)	2022/04/28		96	%	80 - 120
			Total Boron (B)	2022/04/28		105	%	80 - 120
			Total Cadmium (Cd)	2022/04/28		95	%	80 - 120
			Total Chromium (Cr)	2022/04/28		97	%	80 - 120
			Total Cobalt (Co)	2022/04/28		96	%	80 - 120
			Total Copper (Cu)	2022/04/28		97	%	80 - 120
			Total Iron (Fe)	2022/04/28		101	%	80 - 120
			Total Lead (Pb)	2022/04/28		100	%	80 - 120
			Total Manganese (Mn)	2022/04/28		97	%	80 - 120
			Total Molybdenum (Mo)	2022/04/28		97	%	80 - 120
			Total Nickel (Ni)	2022/04/28		97	%	80 - 120
			Total Selenium (Se)	2022/04/28		98	%	80 - 120
			Total Silicon (Si)	2022/04/28		110	%	80 - 120
			Total Silver (Ag)	2022/04/28		95	%	80 - 120
			Total Strontium (Sr)	2022/04/28		97	%	80 - 120
			Total Uranium (U)	2022/04/28		105	%	80 - 120
			Total Vanadium (V)	2022/04/28		97	%	80 - 120
			Total Zinc (Zn)	2022/04/28		108	%	80 - 120
A563022	SOM	Method Blank	Total Aluminum (Al)	2022/04/28	<3.0		ug/L	
			Total Antimony (Sb)	2022/04/28	<0.50		ug/L	
			Total Arsenic (As)	2022/04/28	<0.10		ug/L	
			Total Barium (Ba)	2022/04/28	<1.0		ug/L	
			Total Boron (B)	2022/04/28	<50		ug/L	
			Total Cadmium (Cd)	2022/04/28	<0.010		ug/L	



BUREAU VERITAS

Bureau Veritas Job #: C227344  
Report Date: 2022/05/04

SHIPS POINT IMPROVEMENT DISTRICT

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Chromium (Cr)	2022/04/28	<1.0		ug/L	
			Total Cobalt (Co)	2022/04/28	<0.20		ug/L	
			Total Copper (Cu)	2022/04/28	<0.20		ug/L	
			Total Iron (Fe)	2022/04/28	<5.0		ug/L	
			Total Lead (Pb)	2022/04/28	<0.20		ug/L	
			Total Manganese (Mn)	2022/04/28	<1.0		ug/L	
			Total Molybdenum (Mo)	2022/04/28	<1.0		ug/L	
			Total Nickel (Ni)	2022/04/28	<1.0		ug/L	
			Total Selenium (Se)	2022/04/28	<0.10		ug/L	
			Total Silicon (Si)	2022/04/28	<100		ug/L	
			Total Silver (Ag)	2022/04/28	<0.020		ug/L	
			Total Strontium (Sr)	2022/04/28	<1.0		ug/L	
			Total Uranium (U)	2022/04/28	<0.10		ug/L	
			Total Vanadium (V)	2022/04/28	<5.0		ug/L	
			Total Zinc (Zn)	2022/04/28	<5.0		ug/L	
A563022	SOM	RPD [ASB622-04]	Total Aluminum (Al)	2022/04/28	NC		%	20
			Total Antimony (Sb)	2022/04/28	NC		%	20
			Total Arsenic (As)	2022/04/28	NC		%	20
			Total Barium (Ba)	2022/04/28	NC		%	20
			Total Boron (B)	2022/04/28	NC		%	20
			Total Cadmium (Cd)	2022/04/28	NC		%	20
			Total Chromium (Cr)	2022/04/28	NC		%	20
			Total Cobalt (Co)	2022/04/28	NC		%	20
			Total Copper (Cu)	2022/04/28	11		%	20
			Total Iron (Fe)	2022/04/28	NC		%	20
			Total Lead (Pb)	2022/04/28	NC		%	20
			Total Manganese (Mn)	2022/04/28	1.5		%	20
			Total Molybdenum (Mo)	2022/04/28	NC		%	20
			Total Nickel (Ni)	2022/04/28	NC		%	20
			Total Selenium (Se)	2022/04/28	NC		%	20
			Total Silicon (Si)	2022/04/28	1.2		%	20
			Total Silver (Ag)	2022/04/28	NC		%	20
			Total Strontium (Sr)	2022/04/28	0.17		%	20
			Total Uranium (U)	2022/04/28	NC		%	20
			Total Vanadium (V)	2022/04/28	NC		%	20
			Total Zinc (Zn)	2022/04/28	NC		%	20
A563507	TSO	Spiked Blank	pH	2022/04/28		102	%	97 - 103
A563507	TSO	RPD	pH	2022/04/28	0.68		%	N/A
			pH	2022/04/28	0.27		%	N/A
A563508	TSO	Spiked Blank	Conductivity	2022/04/28		102	%	80 - 120
A563508	TSO	Method Blank	Conductivity	2022/04/28	<2.0		uS/cm	
A563508	TSO	RPD	Conductivity	2022/04/28	3.7		%	10
			Conductivity	2022/04/28	0.72		%	10
A563509	TSO	Matrix Spike	Alkalinity (Total as CaCO3)	2022/04/28		79 (1)	%	80 - 120
A563509	TSO	Spiked Blank	Alkalinity (Total as CaCO3)	2022/04/28		98	%	80 - 120
A563509	TSO	Method Blank	Alkalinity (PP as CaCO3)	2022/04/28	<1.0		mg/L	
			Alkalinity (Total as CaCO3)	2022/04/28	<1.0		mg/L	
			Bicarbonate (HCO3)	2022/04/28	<1.0		mg/L	
			Carbonate (CO3)	2022/04/28	<1.0		mg/L	
			Hydroxide (OH)	2022/04/28	<1.0		mg/L	
A563509	TSO	RPD	Alkalinity (PP as CaCO3)	2022/04/28	NC		%	20
			Alkalinity (Total as CaCO3)	2022/04/28	8.0		%	20
			Bicarbonate (HCO3)	2022/04/28	8.0		%	20
			Carbonate (CO3)	2022/04/28	NC		%	20
			Hydroxide (OH)	2022/04/28	NC		%	20



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A563939	RLC	Matrix Spike	Total Mercury (Hg)	2022/04/29		93	%	80 - 120
A563939	RLC	Spiked Blank	Total Mercury (Hg)	2022/04/29		101	%	80 - 120
A563939	RLC	Method Blank	Total Mercury (Hg)	2022/04/29	<0.0019		ug/L	
A563939	RLC	RPD	Total Mercury (Hg)	2022/04/29	NC		%	20
A564657	GWO	Matrix Spike	Nitrate plus Nitrite (N)	2022/04/29		105	%	80 - 120
A564657	GWO	Spiked Blank	Nitrate plus Nitrite (N)	2022/04/29		108	%	80 - 120
A564657	GWO	Method Blank	Nitrate plus Nitrite (N)	2022/04/29	<0.020		mg/L	
A564657	GWO	RPD	Nitrate plus Nitrite (N)	2022/04/29	2.0		%	25
A564658	GWO	Matrix Spike	Nitrite (N)	2022/04/29		105	%	80 - 120
A564658	GWO	Spiked Blank	Nitrite (N)	2022/04/29		107	%	80 - 120
A564658	GWO	Method Blank	Nitrite (N)	2022/04/29	<0.0050		mg/L	
A564658	GWO	RPD	Nitrite (N)	2022/04/29	NC		%	20
A564676	JAV	Spiked Blank	True Colour	2022/05/02		113	%	80 - 120
A564676	JAV	Method Blank	True Colour	2022/05/02	<5.0		Col. Unit	
A564676	JAV	RPD	True Colour	2022/05/02	NC		%	20
A564857	TSO	Matrix Spike	Dissolved Fluoride (F)	2022/04/30		101	%	80 - 120
A564857	TSO	Spiked Blank	Dissolved Fluoride (F)	2022/04/30		100	%	80 - 120
A564857	TSO	Method Blank	Dissolved Fluoride (F)	2022/04/30	<0.050		mg/L	
A564857	TSO	RPD	Dissolved Fluoride (F)	2022/04/30	NC		%	20
A565099	TSO	Spiked Blank	Dissolved Fluoride (F)	2022/04/30		100	%	80 - 120
A565099	TSO	Method Blank	Dissolved Fluoride (F)	2022/04/30	<0.050		mg/L	
A567406	BB3	Method Blank	Salinity	2022/05/02	<0.010		g/L	
A568243	JRV	Matrix Spike	Chloride (Cl)	2022/05/04		103	%	80 - 120
			Sulphate (SO4)	2022/05/04		NC	%	80 - 120
A568243	JRV	Spiked Blank	Chloride (Cl)	2022/05/04		102	%	80 - 120
			Sulphate (SO4)	2022/05/04		109	%	80 - 120
A568243	JRV	Method Blank	Chloride (Cl)	2022/05/04	<1.0		mg/L	
			Sulphate (SO4)	2022/05/04	<1.0		mg/L	
A568243	JRV	RPD	Sulphate (SO4)	2022/05/04	19		%	20

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).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU  
VERITAS

Bureau Veritas Job #: C227344  
Report Date: 2022/05/04

SHIPS POINT IMPROVEMENT DISTRICT

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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

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

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Bureau Veritas 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.



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 6M9 Ph: (250) 330-7766 Toll Free: (833) 282-5227

WI 031086



BV C227344\_COC

Company (Invoicing): SHIPS POINT IMPROVEMENT DIST.

Company (Reporting):

Contact Name: DAVE SHEPHERD

Mailing Address: 7729 VIVIAN WAY

FANNY BAY NORIWO

Phone #: 778 898 3035

E-mail: Dave.Shepherd@SPID.CA

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)

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

Payment Received: Yes  No

All information on this form must be completed accurately.

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.

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.

Sample Identification Location &/or Description	(Sample Location (eg. Tap, Wellhead))	Date/Time Sampled (24hr)	PLEASE CIRCLE				ANALYSIS REQUESTED PLEASE SELECT BELOW				Report Current Drinking Water Criteria
			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	
1 WELL # 2 (RAW)		2022/04/27 08:30	Y	Y	Y	Y	X			X	X
2 WELL # 3 (RAW)		2022/04/27 08:50	Y	Y	Y	Y	X			X	X
3 WELL # 4 (RAW)		2022/04/27 09:00	Y	Y	Y	Y	X			X	X
4			Y	Y	Y	Y					X
5			Y	Y	Y	Y					X

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.bv.com/terms-and-conditions>

Print name and sign		Print name and sign		Laboratory Use Only							
*Relinquished By: D.S. Shepherd	Date (yy/mm/dd): 22/04/27	Time (24 hr): 09:55	Received by: R. Strleubag	Date (yy/mm/dd): 22/04/27	Time (24hr): 09:56	Time Sensitive: <input checked="" type="checkbox"/>	Temperature on Receipt (°C): A) 8 B) 9 C) 9	Custody Seal Present? <input checked="" type="checkbox"/>	Yes	No	N/A
							Just sampled & rec'd on ice: <input type="checkbox"/>	Intact? <input checked="" type="checkbox"/>			

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 DELAYS AND SAMPLES ANALYZED OUTSIDE REGULATORY HOLD TIMES.

COC-1035

891 FCD 0007/14