

## Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Well #2	Lot ID: <b>1529198</b>
Attn: Coranne Anderson	Project Name: Savary Shores, Improvement District	Control Number:
Sampled By:	Project Location: 2785 Vancouver Blvd.	Date Received: Oct 20, 2021
Company:	LSD:	Date Reported: Oct 25, 2021
	P.O.:	Report Number: 2678064
	Proj. Acct. code:	

Contact	Company	Address
<b>Accounts Payable</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: sales@aaronservice.com

Delivery	Format	Deliverables
Email - Single Report	PDF	COR
Email - Single Report	PDF	Invoice
Email - Single Report	PDF	Test Report

<b>Coranne Anderson</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: coranne@aaronservice.com
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	COA
Email - Merge Reports	PDF	COC / Test Report
Email - Merge Reports	PDF	COR
Email - Merge Reports	PDF	Invoice

<b>Ryan Anderson</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: ryan@aaronservice.com,ryan.
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report

<b>Trevor Anderson</b>	<b>Aaron Service</b>	4703 Marine Avenue Powell River, BC V8A 2L2 Phone: (604) 485-5611 Fax: (604) 485-6858 Email: trevor@aaronservice.com
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Delivery	Format	Deliverables
Email - Merge Reports	PDF	Test Report

### Notes To Clients:

- Oct 21, 2021 - Sample 1529198-1; 7717450: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1529192-1. Detection limits are adjusted accordingly.
- Oct 25, 2021 - The analysis of water sample 1529198-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2020 Guidelines for Canadian Drinking Water Quality for the parameters tested.

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## Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Well #2	Lot ID: <b>1529198</b>
Attn: Coranne Anderson	Project Name: Savary Shores, Improvement District	Control Number:
Sampled By:	Project Location: 2785 Vancouver Blvd.	Date Received: Oct 20, 2021
Company:	LSD:	Date Reported: Oct 25, 2021
	P.O.:	Report Number: 2678064
	Proj. Acct. code:	

<b>Reference Number</b>	1529198-1
<b>Sample Date</b>	October 19, 2021
<b>Sample Time</b>	10:30
<b>Sample Location</b>	
<b>Sample Description</b>	Well #2 / 5.4 °C
<b>Sample Matrix</b>	Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Aggregate Organic Constituents</b>					
UV Transmittance	%/cm	98.1	0.1		
<b>Inorganic Nonmetallic Parameters</b>					
Tannin & Lignin	as Tannic Acid	mg/L	<0.1	0.1	
<b>Metals Extractable</b>					
Aluminum	Extractable	mg/L	<0.001	0.001	0.1 OG; 2.9 MAC
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010
Barium	Extractable	mg/L	0.015	0.0001	2.0
Boron	Extractable	mg/L	0.015	0.002	5
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.007
Chromium	Extractable	mg/L	0.00013	0.00005	0.05
Copper	Extractable	mg/L	0.0046	0.0005	1 AO; 2 MAC
Lead	Extractable	mg/L	0.00002	0.00001	0.005
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05
Strontium	Extractable	mg/L	0.13	0.0001	7.0
Uranium	Extractable	mg/L	0.00020	0.00001	0.02
Vanadium	Extractable	mg/L	0.0012	0.00005	
Zinc	Extractable	mg/L	0.0035	0.0005	5.0
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL
<b>Physical and Aggregate Properties</b>					
Colour	True	Colour units	<5	5	
Turbidity		NTU	0.50	0.1	0.1
<b>Routine Water</b>					
pH - Holding Time			Exceeded		
pH	at 25 °C		7.32	0.01	7.0-10.5
Electrical Conductivity		µS/cm at 25 °C	307	1	
Calcium	Extractable	mg/L	16	0.01	
Iron	Extractable	mg/L	0.004	0.004	0.3
Magnesium	Extractable	mg/L	6.9	0.02	
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC
Potassium	Extractable	mg/L	2.0	0.04	
Silicon	Extractable	mg/L	13	0.005	
Sodium	Extractable	mg/L	29	0.1	200
T-Alkalinity	as CaCO3	mg/L	44	5	

**Analytical Report**

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Well #2 Project Name: Savary Shores, Improvement District Project Location: 2785 Vancouver Blvd.	Lot ID: <b>1529198</b> Control Number: Date Received: Oct 20, 2021 Date Reported: Oct 25, 2021 Report Number: 2678064
Attn: Coranne Anderson Sampled By: Company:	LSD: P.O.: Proj. Acct. code:	

**Reference Number** 1529198-1  
**Sample Date** October 19, 2021  
**Sample Time** 10:30  
**Sample Location**  
**Sample Description** Well #2 / 5.4 °C  
**Sample Matrix** Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Routine Water - Continued</b>						
Chloride	Dissolved	mg/L	51.8	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	2.42	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	8.3	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	68	1		
Total Dissolved Solids	Extractable	mg/L	186	1	500	Below AO

Approved by: 

Carol Nam, Dipl. T.  
 Quality Assurance Coordinator

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).

Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

## Methodology and Notes

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Well #2	Lot ID: <b>1529198</b>
Attn: Coranne Anderson	Project Name: Savary Shores, Improvement District	Control Number:
Sampled By:	Project Location: 2785 Vancouver Blvd.	Date Received: Oct 20, 2021
Company:	LSD:	Date Reported: Oct 25, 2021
	P.O.:	Report Number: 2678064
	Proj. Acct. code:	

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Oct 21, 2021	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Oct 21, 2021	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Oct 21, 2021	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Oct 20, 2021	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Oct 20, 2021	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	Oct 20, 2021	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Oct 20, 2021	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Oct 20, 2021	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Oct 21, 2021	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Oct 21, 2021	Element Vancouver
Ultraviolet Transmittance in Water	APHA	* Ultraviolet Absorption Method, 5910 B	Oct 21, 2021	Element Vancouver

\* Reference Method Modified

## References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

## Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, Sept 2020
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at <a href="http://www.hc-sc.gc.ca">www.hc-sc.gc.ca</a>

## Comments:

- Oct 21, 2021 - Sample 1529198-1; 7717450: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1529192-1. Detection limits are adjusted accordingly.
- Oct 25, 2021 - The analysis of water sample 1529198-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the September 2020 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.  
Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

**Project Information**

Project ID Well #2  
 Project Name \_\_\_\_\_  
 Project Location SAVARY SHORES  
 Legal Location IMP DIST  
 PO/AFE# 2785 Vancouver  
 Proj. Acct. Code Blod  
 Quote # \_\_\_\_\_

**Invoice To:**

Company Aaron Service  
 Address 4703 Marine Avenue  
Powell River, BC V8A 2L2  
 Attention Coranne Anderson  
 Phone 604-485-5611  
 Cell \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-mail coranne@aaronservice.com  
 Agreement ID 66993  
 Copy of Report \_\_\_\_\_

**Report To:**

Company Aaron Service  
 Address 4703 Marine Avenue  
Powell River, BC V8A 2L2  
 Attention Coranne Anderson  
 Phone 604-485-5611  
 Cell \_\_\_\_\_  
 Fax \_\_\_\_\_  
 E-mail 1 coranne@aaronservice.com  
 E-mail 2 trevor@aaronservice.com  
 Copy of Invoice \_\_\_\_\_

**Report Results**

**Regulatory Requirement**

E-Mail	X	HCDWQG	
Mail		Ab Tier 1	
Online		SPIGEC	
Fax		BCCSR	
PDF		Other (list below)	
Excel			
QA/QC			

**Sample Custody (please print)**

Sampled by: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 I authorize Exova to proceed with the work indicated on this form:  
 Date: \_\_\_\_\_ Initial: \_\_\_\_\_

**This section for Lab use**

Date/Time stamp:  
OCT 20 '21 12:42

**RUSH Priority**

<input type="checkbox"/> Emergency (contact lab for turnaround and pricing)	When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.
<input type="checkbox"/> Priority 1-2 working days (100% surcharge)	
<input type="checkbox"/> Urgent 2-3 working days (50% surcharge)	

Date Required \_\_\_\_\_ Signature \_\_\_\_\_

Special Instructions/Comments (please include contact information including ph. # if different from above).

Wat-Test CAN. DRINKING GUIDELINES  
(Incl DW20, W99, UVT & T&L)

Number of Containers	W99	DW20	T/L	UVT	TOC	M99R (repeat total & e coli)	M99S (includes HPC)

Site I.D.	Sample description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	Enter tests above (√ relevant samples below)														
1	<u>2785 Vancouver Blvd SAVARY</u>		<u>10:30</u>																	
2	<u>SHORES</u>		<u>Oct 19/21</u>																	
3	<u>IMP.</u>																			
4	<u>Well #2</u>																			
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

**Environmental Sample Information Sheet**

Note: Proper completion of this form is required in order to proceed with analysis

Please indicate any potentially hazardous samples

Page \_\_\_\_\_ of \_\_\_\_\_

Control # \_\_\_\_\_

Lot: 1529198 COC



Shipping: COD Y/N

# and size of coolers

Temp. received: 5.4°C Delivery Method:

Waybill: [Signature]

Received by: [Signature]