

## Report Transmission Cover Page

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Project Name: Savary Shores Project Location: Improvement LSD: Savary Island P.O.: 334905 Proj. Acct. code:	Lot ID: <b>1352381</b> Control Number: Date Received: May 23, 2019 Date Reported: May 29, 2019 Report Number: 2407985
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

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

Contact	Company	Address
<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

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

Contact	Company	Address
<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

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report

Contact	Company	Address
<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

Delivery	Format	Deliverables
Email - Merge Reports	PDF	Test Report

### Notes To Clients:

- May 24, 2019 - Sample 1352381-1; 6607895: Reduction of analytical volume was necessary for chloride to bring results within the analytical range for sample 1352381-1. Detection limits are adjusted accordingly.
- May 29, 2019 - The analysis of water sample 1352381-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 Guidelines for Canadian Drinking Water Quality for the parameters tested.

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential. If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited. If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

## Analytical Report

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Project Name: Savary Shores Project Location: Improvement LSD: Savary Island P.O.: 334905 Proj. Acct. code:	Lot ID: <b>1352381</b> Control Number: Date Received: May 23, 2019 Date Reported: May 29, 2019 Report Number: 2407985
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

<b>Reference Number</b>	1352381-1
<b>Sample Date</b>	May 22, 2019
<b>Sample Time</b>	11:03
<b>Sample Location</b>	
<b>Sample Description</b>	SSID #2 / 10.0 °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	98.4	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	Below OG
Antimony	Extractable	mg/L	<0.00002	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	<0.0001	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.0158	0.0001	1	Below MAC
Boron	Extractable	mg/L	0.018	0.002	5	Below MAC
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Below MAC
Chromium	Extractable	mg/L	0.00019	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0005	0.0005	1.0	Below AO
Lead	Extractable	mg/L	0.00003	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	<0.0002	0.0002	0.05	Below MAC
Uranium	Extractable	mg/L	0.00021	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00093	0.00005		
Zinc	Extractable	mg/L	0.0042	0.0005	5.0	Below AO
<b>Microbiological Analysis</b>						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	1.12	0.1		
<b>Routine Water</b>						
pH - Holding Time			Exceeded			
pH	at 25 °C		7.18	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	302	1		
Calcium	Extractable	mg/L	14	0.01		
Iron	Extractable	mg/L	0.031	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	6.0	0.02		
Manganese	Extractable	mg/L	0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	1.7	0.04		
Silicon	Extractable	mg/L	13	0.005		
Sodium	Extractable	mg/L	29	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	47	5		
Chloride	Dissolved	mg/L	48.7	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.05	0.01	1.5	Below MAC

**Analytical Report**

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Project Name: Savary Shores Project Location: Improvement LSD: Savary Island P.O.: 334905 Proj. Acct. code:	Lot ID: <b>1352381</b> Control Number: Date Received: May 23, 2019 Date Reported: May 29, 2019 Report Number: 2407985
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

**Reference Number** 1352381-1  
**Sample Date** May 22, 2019  
**Sample Time** 11:03  
**Sample Location**  
**Sample Description** SSID #2 / 10.0 °C  
**Sample Matrix** Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Routine Water - Continued</b>					
Nitrate - N	Dissolved mg/L	2.25	0.01	10	Below MAC
Nitrite - N	Dissolved mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved mg/L	9.7	0.1	500	Below AO
Hardness	as CaCO3 (extractable) mg/L	60	1		
Total Dissolved Solids	Extractable mg/L	184	1		

Approved by:   
 Mathieu Simoneau  
 Operations Manager

## Methodology and Notes

Bill To: Aaron Service 4703 Marine Avenue Powell River, BC, Canada V8A 2L2	Project ID: Savary Project Name: Savary Shores Project Location: Improvement LSD: Savary Island P.O.: 334905 Proj. Acct. code:	Lot ID: <b>1352381</b> Control Number: Date Received: May 23, 2019 Date Reported: May 29, 2019 Report Number: 2407985
Attn: Coranne Anderson Sampled By: Courtney Company: Customer		

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	May 23, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	May 23, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	May 23, 2019	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	May 23, 2019	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	May 24, 2019	Element Vancouver
Tannin and Lignin in water (VAN)	APHA	* Colorimetric Method, 5550 B	May 28, 2019	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	May 23, 2019	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	May 24, 2019	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	May 23, 2019	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	May 24, 2019	Element Vancouver
Ultraviolet Transmittance in Water	APHA	* Ultraviolet Absorption Method, 5910 B	May 24, 2019	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, February 2017
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:

- May 24, 2019 - Sample 1352381-1; 6607895: Reduction of analytical volume was necessary for chloride to bring results within the analytical range for sample 1352381-1. Detection limits are adjusted accordingly.
- May 29, 2019 - The analysis of water sample 1352381-1 is below Maximum Acceptable Concentrations for the chemical and bacteriological health related guidelines specified by the February 2017 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: Savary  
 Project Name: Savary Shores  
 Project Location: Improvement  
 Legal Location: Savary Island  
 PO/AFE#: 334905  
 Proj. Acct. Code:  
 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			

**RUSH Priority**

Emergency (contact lab for turnaround and pricing)  
 Priority 1-2 working days (100% surcharge)  
 Urgent 2-3 working days (50% surcharge)

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.

Date Required: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Special Instructions/Comments (please include contact information including ph. # if different from above).

Wat. test water potability DW20 W99 UVT T&L

Number of Containers	W99	DW20	T/L	UVT	TOC	M99R (repeat total & e'coil)	M99S (includes HPC)
----------------------	-----	------	-----	-----	-----	------------------------------	---------------------


**Sample Custody (please print)**  
 Sampled by: Courtney  
 Company: Customer  
 I authorize Exova to proceed with the work indicated on this form:  
 Date: \_\_\_\_\_ Initial: \_\_\_\_\_

**This section for Lab use**  
 Date/Time stamp: MAY 23 15:05

Site I.D.	Sample description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	Enter tests above (√ relevant samples below)									
1	SSID # 2		May 22												
2			11:03												
3															
4															
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: 1352381 COC  


Shipping: COD Y/N  
 # and size of coolers  
 Temp. received: 10.0  
 Delivery Method: 100  
 Waybill:  
 Received by: 