

Report Transmission Cover Page

Bill To: Sunshine Coast Regional District 1975 Field Road Sechelt, BC, Canada V0N 3A1	Project ID: Egmont & Ruby Lake - WTE01	Lot ID: 1626022
Attn: Accounts Payable	Project Name: Surface Water	Control Number:
Sampled By: Sheldon Newman	Project Location: LSD:	Date Received: Jan 16, 2023
Company: SCRD	P.O.: 3004432	Date Reported: Jan 20, 2023
	Proj. Acct. code:	Report Number: 2834856

Contact	Company	Address
Accounts Payable	Sunshine Coast Regional District	1975 Field Road Sechelt, BC V0N 3A1 Phone: (604) 885-6800 Fax: Email: accounts.payable@scrd.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Single Deliverable	PDF	Invoice
Codi Abbott	Sunshine Coast Regional District	5920 Mason Road Sechelt, BC V0N 3A8 Phone: (604) 885-6800 Fax: Email: Codi.Abbott@scrd.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Multiple Deliverables By Lot	PDF	COC / Test Report
Email - Multiple Deliverables By Lot	Sunshine Coast	Test Report
Email - Single Deliverable	PDF	COA
Emily Lussin	Sunshine Coast Regional District	1975 Field Road Sechelt, BC V0N 3A1 Phone: (604) 885-6800 Fax: Email: emily.lussin@scrd.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Merge Deliverables	PDF	COC / Test Report
Email - Single Deliverable	PDF	COA
Email - Single Deliverable	Sunshine Coast	Test Report

Notes To Clients:

- Jan 18, 2023 - Analysis was performed on sample 1626022-1 and 2 that exceeded the recommended holding time for turbidity analysis.

Analytical Report

Bill To: Sunshine Coast Regional District	Project ID: Egmont & Ruby Lake - WTE01	Lot ID: 1626022
1975 Field Road	Project Name: Surface Water	Control Number:
Sechelt, BC, Canada	Project Location:	Date Received: Jan 16, 2023
V0N 3A1	LSD:	Date Reported: Jan 20, 2023
Attn: Accounts Payable	P.O.: 3004432	Report Number: 2834856
Sampled By: Sheldon Newman	Proj. Acct. code:	
Company: SCRD		

		Reference Number	1626022-1	1626022-2	
		Sample Date	Jan 12, 2023	Jan 12, 2023	
		Sample Time	12:20	11:30	
		Sample Location			
		Sample Description	RL-Raw Ruby Lake / 6.1 °C	EG-RAW Waugh Lake / 6.1 °C	
		Matrix	Water	Water	
Analyte		Units	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Phosphorus	Total - Low Level	mg/L	<0.005	<0.005	0.005
Metals Total					
Calcium	Total	mg/L	4.3	3.2	0.01
Magnesium	Total	mg/L	0.71	0.44	0.02
Potassium	Total	mg/L	0.27	0.17	0.04
Silicon	Total	mg/L	1.6	2.0	0.005
Sulfur	Total	mg/L	0.77	0.47	0.02
Sodium	Total	mg/L	2.8	1.5	0.1
Mercury	Total	mg/L	<0.00001	<0.00001	0.00001
Physical and Aggregate Properties					
Colour	True	Colour units	<5	5	5
Solids	Total Dissolved	mg/L	44	88	5
Turbidity		NTU	0.38	0.54	0.1
Routine Water					
pH - Holding Time			Exceeded	Exceeded	
pH	at 25 °C		6.90	6.75	0.01
Bicarbonate		mg/L	15	<5	5
Carbonate		mg/L	<6	10	6
Hydroxide		mg/L	<5	<5	5
P-Alkalinity	as CaCO ₃	mg/L	<5	<5	5
T-Alkalinity	as CaCO ₃	mg/L	13	9	5
Bromide	Dissolved	mg/L	<0.02	<0.02	0.02
Chloride	Dissolved	mg/L	2.66	0.99	0.05
Fluoride	Dissolved	mg/L	0.03	0.02	0.01
Nitrate - N	Dissolved	mg/L	0.02	0.06	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	0.01
Sulfate (SO ₄)	Dissolved	mg/L	2.3	1.3	0.1
Hardness	Total	mg CaCO ₃ /L	14	9.7	1
Mono-Aromatic Hydrocarbons - Water					
Benzene		mg/L	<0.0005	<0.0005	0.0005
Ethylbenzene		mg/L	<0.0005	<0.0005	0.0005
Methyl t-Butyl Ether		mg/L	<0.0005	<0.0005	0.0005
Styrene		mg/L	<0.0005	<0.0005	0.0005
Toluene		mg/L	<0.0005	<0.0005	0.0005
Total Xylenes (m,p,o)		mg/L	<0.0005	<0.0005	0.0005
4-Bromofluorobenzene	Surrogate	%	94.4	94.4	70-130
Dibromofluoromethane	Surrogate	%	113	124	70-130
Toluene-d8	Surrogate	%	98.0	96.2	70-130

Analytical Report

Bill To: Sunshine Coast Regional District	Project ID: Egmont & Ruby Lake - WTE01	Lot ID: 1626022
1975 Field Road	Project Name: Surface Water	Control Number:
Sechelt, BC, Canada	Project Location:	Date Received: Jan 16, 2023
V0N 3A1	LSD:	Date Reported: Jan 20, 2023
Attn: Accounts Payable	P.O.: 3004432	Report Number: 2834856
Sampled By: Sheldon Newman	Proj. Acct. code:	
Company: SCRD		

Reference Number	1626022-1	1626022-2
Sample Date	Jan 12, 2023	Jan 12, 2023
Sample Time	12:20	11:30
Sample Location		
Sample Description	RL-Raw Ruby Lake / 6.1 °C	EG-RAW Waugh Lake / 6.1 °C
Matrix	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Trace Metals Total					
Tungsten	Total	µg/L	<0.2	<0.2	0.2
Aluminum	Total	mg/L	0.014	0.020	0.001
Antimony	Total	mg/L	0.00004	<0.00002	0.00002
Arsenic	Total	mg/L	0.0004	0.0004	0.0001
Barium	Total	mg/L	0.0021	0.0025	0.0001
Beryllium	Total	mg/L	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001	0.0001
Boron	Total	mg/L	0.010	0.004	0.002
Cadmium	Total	mg/L	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	0.00006	0.00008	0.00005
Cobalt	Total	mg/L	<0.00002	0.00002	0.00002
Copper	Total	mg/L	0.0020	0.0028	0.0002
Iron	Total	mg/L	0.014	0.042	0.002
Lead	Total	mg/L	0.00015	0.00008	0.00001
Lithium	Total	mg/L	<0.0005	<0.0005	0.0005
Manganese	Total	mg/L	0.001	0.008	0.001
Molybdenum	Total	mg/L	0.00053	0.00055	0.00002
Nickel	Total	mg/L	<0.0002	<0.0002	0.0002
Selenium	Total	mg/L	<0.0002	<0.0002	0.0002
Silver	Total	mg/L	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.012	0.011	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	0.0005	<0.0001	0.0001
Titanium	Total	mg/L	0.0004	0.0001	0.0001
Uranium	Total	mg/L	0.00001	0.00001	0.00001
Vanadium	Total	mg/L	0.00013	0.00017	0.00005
Zinc	Total	mg/L	0.0060	0.0029	0.0005
Zirconium	Total	mg/L	<0.0001	<0.0001	0.0001

Approved by:



Anthony Neumann, MSc
General Manager

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: Sunshine Coast Regional District 1975 Field Road Sechelt, BC, Canada V0N 3A1 Attn: Accounts Payable Sampled By: Sheldon Newman Company: SCRD	Project ID: Egmont & Ruby Lake - WTE01 Project Name: Surface Water Project Location: LSD: P.O.: 3004432 Proj. Acct. code:	Lot ID: 1626022 Control Number: Date Received: Jan 16, 2023 Date Reported: Jan 20, 2023 Report Number: 2834856
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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Jan 17, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Jan 17, 2023	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Jan 16, 2023	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Single-Column Ion Chromatography with Electronic Suppression, 4110 C	Jan 16, 2023	Element Vancouver
BTEX-VPH - Water (MS) (VAN)	BCELM	* Volatile Hydrocarbons in Water by GC/FID, VH Water	Jan 17, 2023	Element Vancouver
Mercury Low Level (Total) in water (VAN)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Jan 18, 2023	Element Vancouver
Metals SemiTrace (Total) in Water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Jan 17, 2023	Element Vancouver
Phosphorus - Total in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	Jan 18, 2023	Element Edmonton - Roper Road
Solids Dissolved (Total, Fixed and Volatile) - VAN	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	Jan 17, 2023	Element Vancouver
Trace Metals (Total) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Jan 17, 2023	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Jan 17, 2023	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Jan 18, 2023	Element Vancouver

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
BCELM	B.C. Environmental Laboratory Manual
EPA	Environmental Protection Agency Test Methods - US
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Jan 18, 2023 - Analysis was performed on sample 1626022-1 and 2 that exceeded the recommended holding time for turbidity analysis.

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.



www.Element.com

Project Information

Project ID: Egmont & Ruby Lake - WTE01
 Project Name: Surface Water
 Project Location: _____
 Legal Location: _____
 PO/AFE#: 3004082
 Proj. Acct. Code: _____
 Quote #: _____

Invoice To
 Company: Sunshine Coast Regional District
 Address: 1975 Field Road
Sechelt, BC V0N 3A1, Canada
 Attention: Accounts Payable
 Phone: (604) 885-6800
 Cell: _____
 Fax: _____
 E-mail: accounts.payable@scrd.ca
 Agreement ID: 113277
 Copy of Report: YES / NO

Report To
 Company: Sunshine Coast Regional District
 Address: 5920 Mason Road
Sechelt, BC V0N 3A8, Canada
 Attention: Codi Abbott
 Phone: (604) 885-6800
 Cell: (604) 741-3914
 Fax: _____
 E-mail 1: Codi.Abbott@scrd.ca
 E-mail 2: emily.lussin@scrd.ca
 Copy of Invoice: YES / NO

Additional Reports to
 1) Name: _____
 E-mail: _____
 2) Name: _____
 E-mail: _____
Sample Custody
 Sampled by: Sheldon Newman
 Company: SCRD
 I authorize Element to proceed with the work indicated on this form:
 Signature: Sheldon Newman
 Date/Time: 1/12/23 11:30

RUSH Priority

Report Results

Requirements

- ☐ Same Day (200%)
☐ Next Day/Two Day (100%)
☐ Three or Four Days (50%)
☐ Five to Seven Days (Regular TAT)

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.

- ☐ Email ☐ QA/QC
☐ Online ☐ PDF
☐ Fax ☐ Excel

- ☐ HCDWOR ☐ SPIGEC
☐ AB Tier 1 ☐ BCCSR
 Other (list below)

Date Required _____

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

Site I.D.	Sample Description	Depth Range	Unit	Date/Time sampled	Matrix	Sampling method	Number of Containers	MeOH Field Preserved?	ALK - Alkalinity, total	CBTX1 - BTEXSM in water b	COLO1 - Colour - True	DISP - Environmental Dispos	IEC - Anions screen - water	TDS - Total dissolved solids	TP - Phosphorus - total	TURB - Turbidity	W39BC - BCCSR - Metals
1	* RL-Raw Ruby Lake			1/12/23 11:30	Water	grab	6		X	X	X	X	X	X	X	X	X
	RL-03 Jarvis Inlet						6		X	X	X	X	X	X	X	X	X
	* EG-Raw Waugh Lake			1/12/23 11:30	Water	Grab	6		X	X	X	X	X	X	X	X	X
	EG-02 Egmont Hall						6		X	X	X	X	X	X	X	X	X

Please indicate any potentially hazardous samples

Submission of this form acknowledges acceptance of Element's Standard of terms and conditions (<https://www.element.com/terms/terms-and-conditions>)

Page 1 of 1

ED 120-005

Control # _____

Lot: 1626022 COC



Temp. received 6.1

Date/Time stamp: 23 JAN 16 12:41

Delivery Method: _____

Waybill: _____

Received by: _____