



Certificate of Potability

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Discovery Islands Water Quality
Services
Report to: Discovery Islands Water Quality
Services
Box 180
Quathiaski Cove, BC, Canada
V0P 1N0
Attn: Paul Flemming
Sampled By:
Company:

Project
ID: Well Head # 11318 Lot 22
Name:
Location: Siskan Lane, Cortez Island
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 410339
Control Number:
Date Received: Sep 22, 2005
Date Reported: Sep 26, 2005
Report Number: 751010

Page: 1 of 1

Sample Description: Siskan Lane, Cortez Island / Well Head # 11318 - Lot # 22

The above mentioned water sample number **410339 - 1** supplied by **Discovery Islands Water Quality Services** meets the chemical and bacteriological requirements specified by the Oct. 19th 2004 Guidelines for Canadian Drinking Water Quality for the constituents tested.

Comments:

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager

Note:

All reports are the confidential property of our clients. Publication of statements, conclusions or extracts from or regarding our report is not permitted without our written approval. Any liability attached thereto is limited to the fee charged.



Analytical Report

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NWL Number	410339-1
Sample Date	Sep 21, 2005 4:45:00AM
Sample Description	Siskan Lane, Cortez Island / Well Head # 11318 - Lot # 22
Sample Matrix	Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable					
Aluminum	Extractable mg/L	0.005	0.005	0.1	Acceptable
Antimony	Extractable mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable mg/L	<0.0002	0.0002	0.025	Pass
Barium	Extractable mg/L	0.009	0.001	1	Pass
Boron	Extractable mg/L	0.006	0.002	5	Pass
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable mg/L	<0.0005	0.0005	0.05	Pass
Copper	Extractable mg/L	<0.001	0.001	1	Acceptable
Lead	Extractable mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable mg/L	0.014	0.001	5	Acceptable
Microbiological Analysis					
Total Coliforms	Enzyme Substrate TestMPN/100 mL	<1.0	1	<1	Pass
Escherichia coli	Enzyme Substrate TestMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate MPN/mL	<2	2	500	Acceptable
Physical and Aggregate Properties					
Colour	Apparent, Potable Colour units	9	5	15	Acceptable
Turbidity	NTU	4.7	0.1	5	Acceptable
Temperature	As Received °C	5	-		n/a
Routine Water					
pH		7.26	-	6.5 - 8.5	Acceptable
Sodium	Extractable mg/L	13.6	0.4	200	Acceptable
Iron	Extractable mg/L	0.25	0.03	0.3	Acceptable
Manganese	Extractable mg/L	0.022	0.005	0.05	Acceptable
Chloride	Dissolved mg/L	16.5	0.4	250	Acceptable
Fluoride	mg/L	<0.05	0.05	1.5	Pass
Nitrate - N	mg/L	0.23	0.01	10	Pass
Nitrite - N	mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)	mg/L	3.6	0.9	500	Acceptable

Please Note: Related regulatory criteria are provided as a service to clients. Norwest Labs' responsibility is limited to analytical data. We are not responsible for ensuring that listed criteria are current, scientifically valid, appropriate and sufficient for the user of the data.



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NWL Number	410339-1
Sample Date	Sep 21, 2005 4:45:00AM
Sample Description	Siskan Lane, Cortez Island / Well Head # 11318 - Lot # 22
Sample Matrix	Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
T-Alkalinity	as CaCO ₃	mg/L 42	5	250-650	Low
Total Dissolved Solids		mg/L 74	1	500	Acceptable
Hardness	as CaCO ₃	mg/L 37	-		Soft

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager

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Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	23-Sep-05	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	23-Sep-05	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	26-Sep-05	Norwest Labs Edmonton
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	26-Sep-05	Norwest Labs Edmonton
Colour (Apparent) in water	APHA	* Visual Comparison Method, 2120 B	23-Sep-05	Norwest Labs Edmonton
E. coli - Colilert	APHA	Enzyme Substrate Test, 9223 B	22-Sep-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA	Heterotrophic Plate Count - Pour Plate Method, 9215 B	22-Sep-05	Norwest Labs Surrey
Metals ICP-MS (Extractable) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	26-Sep-05	Norwest Labs Edmonton
Metals Trace (Extractable) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	23-Sep-05	Norwest Labs Edmonton
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	22-Sep-05	Norwest Labs Surrey
Turbidity in Water	APHA	* Nephelometric Method, 2130 B	23-Sep-05	Norwest Labs Edmonton

* Norwest method(s) is based on reference method

References:

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

Comments:

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

[illegible]

Owners Name & Address Renewal Land Company, Suite 610 - 220 Cambie St
Legal Description & Address Vancouver, BC V6B 2

Descriptive Location lot 22. Well 10# 11318

I. TYPE OF WORK	<input checked="" type="checkbox"/> New Well	2 <input type="checkbox"/> Reconditioned
	3 <input type="checkbox"/> Deepened	4 <input type="checkbox"/> Abandoned

2. WORK METHOD

1 <input type="checkbox"/> Cable tool	2 <input type="checkbox"/> Bored	3 <input type="checkbox"/> Jetted
4 <input checked="" type="checkbox"/> Rotary	a <input type="checkbox"/> mud	b <input checked="" type="checkbox"/> air
<input type="checkbox"/> Other	c <input type="checkbox"/> reverse	

3. WATER WELL USE 1 ☒ Domestic 2 ☐ Municipal 3 ☐ Irrigation
4 ☐ Comm. & Ind. ☐ Other

4. DRILLING ADDITIVES

5. MEASUREMENTS from 1 ☒ ground level 2 ☐ top of casing
casing height above ground level 2 ft.

[illegible]

7. CONSULTANT _____
Address _____

8. WELL LOCATION SKETCH

9. CASING: 1 ☒ Steel 2 ☐ Galvanized 3 ☐ Wood
Materials 4 ☐ Plastic 5 ☐ Concrete
☐ Other

Hole Diameter									
Diameter from	6								
to	+ .002								
Thickness	.9413 ± .004								
Weight	2.19								

Pitless unit _____ ft 1 ☐ above 2 ☐ below ground level
 1 ☒ Welded 2 ☐ Cemented 3 ☐ Threaded | 1 ☐ New 2 ☐ U
 Perforations: _____

Shoe(s): one SIX inch
Open hole from _____ to _____ ft Diameter _____
Grout: Bensoal clay

10. SCREEN: 1 ☒ Nominal (Telescope) 2 ☐ Pipe Size
Type 1 ☒ Continuous Slot 2 ☐ Perforated 3 ☐ Lou
☐ Other _____

Material 1 ☒ Stainless Steel 2 ☐ Plastic ☐ Other _____
Set from 1927 to 1972 ft below ground level

RISER, SCREEN & BLANKS							U
Length	4' 7"						
Diam. I.D.	3						
Slot Size	8H						
from	1927						
to	1973						

Fittings, top K-packer bottom blank
Gravel Pack _____

II. DEVELOPED BY: 1 ☐ Surging 2 ☐ Jetting 3 ☐ A
4 ☐ Bailing 5 ☐ Pumping ☐ Other _____

12. TEST 1 ☐ Pump 2 ☐ Bail 3 ☐ Air Date / /
Rate USgpm Temp °C SWL before test
Water Level ft after test of hrs

<input type="checkbox"/> DRAWDOWN in ft				<input type="checkbox"/> RECOVERY in ft			
mins	WL	mins	WL	mins	WL	mins	WL

13.	RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING
		ft	

14. WATER TYPE: 1 ☒ fresh 2 ☐ salty 3 ☒ clear 4 ☐ cloudy
colour _____ smell _____; gas 1 ☐ yes 2 ☒ no

15. WATER ANALYSIS: 1 Hardness

2 Iron mg/L 3 Chloride mg/L

4 pH Field Date

ID No. _____ Lab Date
YR. MONTH DAY

16. FINAL WELL COMPLETION DATA

Well Depth 1198 ft

Static Water Level 1144 ft

Back filled Native material/Benscal clay

Well Head Completion Surface seal & well cap.

Well Yield 110 US gpm

Artesian Flow ☐

Pressure Head ☐

US gpm

17. DRILLER PARKER SURNAME ROBERT FIRST NAME
PLEASE PRINT

18. CONTRACTOR, **RED WILLIAMS WELD DRILLING ETC**
Address **980 PRATT ROAD**

980 PRATT ROAD
QUALICUM BEACH, BC

Member, B C G W A ☒ yes ☐ no ; V9K-1W5