

Analytical Report

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: Lot# 20 - Well #11305

Name: Location: LSD:

P.O.:

Acct. Code:

NWL Lot ID: 406995

Control Number:

Date Received: Sep 08, 2005

Date Reported: Sep 14, 2005

Report Number: 744309

Page: 1 of 3
Number 406995-1

NWL Number

Sample Date

Sep 07, 2005 12:30:00PM

Sample Description

Well Head / Sisken Lane, Cortex Island / Lot #20 -

Well #11305

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.008	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0004	0.0002	0.025	Pass
Barium	Extractable	mg/L	0.006	0.001	1	Pass
Boron	Extractable	mg/L	0.004	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0010	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0003	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	<0.001	0.001	5	Acceptable
Microbiological Anal	ysis					
Total Coliforms	Enzyme Substrate TestMPN/100 mL		<1.0	1	<1	Pass
Escherichia coli	Enzyme Substrate To	estMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	6	2	500	Acceptable
Physical and Aggreg	ate Properties					
Colour	Apparent, Potable	Colour units	7	5	15	Acceptable
Turbidity		NTU	2.4	0.1	5	Acceptable
Temperature	As Received	°C	6.0	_		n/a
Routine Water						
рН			7.58	_	6.5 - 8.5	Acceptable
Sodium	Extractable	mg/L	9.9	0.4	200	Acceptable
Iron	Extractable	mg/L	0.36	0.03	0.3	Above Aesthetic
Manganese	Extractable	mg/L	0.017	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	8.5	0.4	250	Acceptable
Fluoride		mg/L	0.05	0.05	1.5	Pass
Nitrate - N		mg/L	0.05	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	2	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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406995-1

Sep 07, 2005 12:30:00PM

Well Head / Sisken Lane, Cortex Island / Lot #20 -

Well #11305

Sample Matrix Water - General

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Conti	nued					
T-Alkalinity	as CaCO3	mg/L	50	5	250-650	Low
Total Dissolved Solids		mg/L	66	1	500	Acceptable
Hardness	as CaCO3	mg/L	40	-		Soft

Bill Warning, B.Sc. Lab Operations Manager

C William Warning

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Methodology and Notes

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Method of Analysis:

motriod of Analysis.					
MethodName Reference		Method	Date Analysis Started	Location	
Alkalinity, pH, and EC in water	APHA	Electrometric Method, 4500-H+ B	12-Sep-05	Norwest Labs Edmonton	
Alkalinity, pH, and EC in water	APHA	Titration Method, 2320 B	12-Sep-05	Norwest Labs Edmonton	
Anions (Routine) by Ion	APHA	Ion Chromatography with Chemical	13-Sep-05	Norwest Labs Edmonton	
Chromatography		Suppression of Eluent Cond., 4110 B			
Chloride in Water	APHA	Automated Ferricyanide Method,	13-Sep-05	Norwest Labs Edmonton	
		4500-Cl- E			
Colour (Apparent) in water	APHA	Visual Comparison Method, 2120 B	13-Sep-05	Norwest Labs Edmonton	
E. coli - Colilert	APHA	Enzyme Substrate Test, 9223 B	8-Sep-05	Norwest Labs Surrey	
Heterotrophic (Standard) Plate	APHA	Heterotrophic Plate Count - Pour Plate	8-Sep-05	Norwest Labs Surrey	
Count (Aerobic SP) - Surrey		Method, 9215 B			
Metals ICP-MS (Extractable) in	US EPA	Determination of Trace Elements in	13-Sep-05	Norwest Labs Edmonton	
water		Waters and Wastes by ICP-MS, 200.8			
Metals Trace (Extractable) in water	APHA ,	Inductively Coupled Plasma (ICP)	13-Sep-05	Norwest Labs Edmonton	
		Method, 3120 B			
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	8-Sep-05	Norwest Labs Surrey	
Turbidity in Water	APHA ,	Nephelometric Method, 2130 B	13-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:



Certificate of Potability

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The above mentioned water sample number 406995 - 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

William Warning

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.

BC#

Environment Water Management Branch, Groundwater Section Date 10,510,51301 WATER WELL RECORD WELL No. L ELEV Ε Date 19 'ompany, Suite 610-220 Legal Description & Address hor Well 12# 11305 Descriptive Location_ 1 1 New Well 2 🛘 Reconditioned 1 DSSteel 9. CASING: 2 🗆 Galvanized 3 🗆 Wood 3 Deepened 4 🗌 Abandoned 4 🗌 Plastic 5 🗌 Concrete Materials □ Other Cable tool 2 🗆 Bored units 2. WORK 4 A Rotary a mud b Mair c reverse Hole Diameter ins METHOD Diameter Ins 1 A Domestic 2 🗌 Municipal ft_ 3 🗌 Irrigation from WELL USE4 Comm. & Ind. ☐ Other ff Thickness 4. DRILLING ADDITIVES ins lb/ft 5. MEASUREMENTS from 1 为 ground level 2 □ top of casing ___ft 1 🗌 above 2 🔲 below ground level Pitless unit. casing height above ground level_ 1 № Welded 2 🗆 Cemented 3 🗆 Threaded | 1 🗆 New 2 🗀 Used FROM ft SWL 6. WELL LOG DESCRIPTION Perforations:_ wel Shoe (s): 000 _ to _ sand gravel, das lia 10. SCREEN: 1 Nominal (Telescope) 2 🗆 Pipe Size 1 X Continuous Slot 2 □ Perforated 3 ☐ Louvre Material 1 M Stainless Steel $\stackrel{?}{\sim}$ Plastic Other—Set from $\frac{255}{1000}$ to $\frac{270}{1000}$ ft below ground level RISER, SCREEN & BLANKS units ft Diam. I D ins Slot Size ins from 265 fi 10 2702 ft poicker bottom Fittings, top < Gravel Pack II. DEVELOPED BY: 1 ☐ Surging 2 Detting 3 DAir 4 🗌 Bailing 5 🗌 Pumping Other_ I2. TEST 1 □ Pump 2 □ Bail 3 □ Air Date L ___USgpm Temp___OC SWL before test_ Water Level _____ft after test of_ _ hrs ☐ DRAWDOWN in ft ☐ RECOVERY in ft mins WL mins WL RECOMMENDED PUMP SETTING RECOMMENDED PUMPING RATE 14. WATER TYPE: 1 Diffresh 2 Isalty 3 Diclear 4 Icloudy ___ smell_ _; gas 1 □yes 15. WATER ANALYSIS: 1 Hardness : CONSULTANT_

WATER QUALITY & QUANTITY NOT GUARANTEED BY THE CONTRACTOR

Address

.WELL LOCATION SKETCH

- (F /)			413	1910	22.6
MUNAL WELL COMPLETION	DATA	approx	<u>~</u>	-\$	
Well Depth 121712 ft	Well Y			US gpm	
Static Water Level 1223 ft	Artesian Flow	US gpm	Pressure Head		ft
Back filled Native M					
Well Head Completion Swid	ace S	eal			

17. DRILLER PARKKIRI III

______ mg/L

4 pH L L

18. CONTRACTOR,

SITE I D No

980 PRATT ROAD

3 Chloride ___

Field Date L_

Lab Date L___

Member, B C G W A

Ayes QUALICUM BEACH, BC

VOK 1WS