



Report Transmission Cover Page

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 # 11307 - Lot # 17
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 407321
Control Number:
Date Received: Sep 09, 2005
Date Reported: Sep 15, 2005
Report Number: 744986

Contact	Company	Address									
Paul Flemming Web Email Notification	Cash Account	Box 180 Quathiaski Cove, BC V0P 1N0 Phone: (250) 830-3744 Email: thewaterguy@uniserve.com									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format	1	Post		1	Email - Single Report	PDF	Fax:
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1	Email - Single Report	PDF									

NOTE: **P** indicates a preliminary report is required
NOTE: **A** indicates report is delivered using automated delivery

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Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients
Lot Notes:
Sample Notes:
Batch Notes:
Method Notes:
Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
744986 Env Guide No Disp		

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

9/15/05 744986 15-Sep-2005



Analytical Report

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NWL Lot ID: 407321
Control Number:
Date Received: Sep 09, 2005
Date Reported: Sep 15, 2005
Report Number: 744986

NWL Number 407321-1
 Sample Date Sep 08, 2005 11:30:00AM
 Sample Description Well Head # 11307 - Lot # 17
 Sample Matrix Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments	
Metals Extractable						
Aluminum	Extractable mg/L	0.053	0.005	0.1	Acceptable	
Antimony	Extractable mg/L	<0.0002	0.0002	0.006	Pass	
Arsenic	Extractable mg/L	0.0003	0.0002	0.025	Pass	
Barium	Extractable mg/L	0.004	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	0.001	0.0005	0.05	Pass	
Copper	Extractable mg/L	0.002	0.001	1	Acceptable	
Lead	Extractable mg/L	0.0015	0.0001	0.01	Pass	
Uranium	Extractable mg/L	<0.0005	0.0005	0.02	Pass	
Zinc	Extractable mg/L	0.002	0.001	5	Acceptable	
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	4.2	1	<1	Fail
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	4	2	500	Acceptable
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	11	5	15	Acceptable
Turbidity		NTU	5.8	0.1	5	Above Aesthetic
Temperature	As Received	°C	5.0	-		n/a
Routine Water						
pH			7.52	-	6.5 - 8.5	Acceptable
Sodium	Extractable	mg/L	8.9	0.4	200	Acceptable
Iron	Extractable	mg/L	0.57	0.03	0.3	Above Aesthetic
Manganese	Extractable	mg/L	0.01	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	8.6	0.4	250	Acceptable
Fluoride		mg/L	<0.05	0.05	1.5	Pass
Nitrate - N		mg/L	0.04	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	1	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	36	5	250-650	Low

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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Box 180
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Attn: Paul Flemming
Sampled By:
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Project ID: Well Head # 11307 - Lot # 17
Name:
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 407321
Control Number:
Date Received: Sep 09, 2005
Date Reported: Sep 15, 2005
Report Number: 744986

NWL Number 407321-1
Sample Date Sep 08, 2005 11:30:00AM
Sample Description Well Head # 11307 - Lot # 17
Sample Matrix Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
Total Dissolved Solids	mg/L	53	1	500	Acceptable
Hardness as CaCO3	mg/L	30	-		Soft

Approved by: *Marie England*
Marie England
Consulting Scientist

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Methodology and Notes

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Page: 3 of 3

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	14-Sep-05	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	14-Sep-05	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Sep-05	Norwest Labs Edmonton
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	14-Sep-05	Norwest Labs Edmonton
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	9-Sep-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA	Heterotrophic Plate Count - Pour Plate Method, 9215 B	9-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	14-Sep-05	Norwest Labs Edmonton
Metals Trace (Extractable) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	14-Sep-05	Norwest Labs Edmonton
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	9-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:

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

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Surrey	Ph (604) 514-3322	FAX (604) 514-3323
Edmonton	Ph (780) 438-5522	FAX (780) 438-0396
Calgary	Ph (403) 291-2022	FAX (403) 291-2021
Lethbridge	Ph (403) 329-9266	FAX (403) 327-8527
Winnipeg	Ph (204) 982-8630	FAX (204) 275-6019

Lot Number: 407321 & 420932

Date Issued: 6-Feb-06

Sample Id: Lot #17

The above mentioned water sample number **407321-1 & 420932-1** supplied by **Discovery Islands Water Quality Services** meets the chemical and bacteriological requirements specified by the Oct. 10th, 2004 Guidelines for Canadian Drinking Water Quality (6th ed.) for the constituents tested.

Reviewed by:

for Bill Warning BSc
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.



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Calgary	Ph (403) 291-2022	FAX (403) 291-2021
Lethbridge	Ph (403) 329-9266	FAX (403) 327-8527
Winnipeg	Ph (204) 982-8630	FAX (204) 275-6019

Lot Number: 407322 & 420932

Date Issued: 6-Feb-06

Sample Id: Lot #18

The above mentioned water sample number **407322-1 & 420932-2** supplied by **Discovery Islands Water Quality Services** meets the chemical and bacteriological requirements specified by the Oct. 10th, 2004 Guidelines for Canadian Drinking Water Quality (6th ed.) for the constituents tested.

Reviewed by:

Sr. Bill Warning BSc
Operations Manager

Note:

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NORWEST LABS

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Edmonton, AB T6D 3J4
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(403) 329-9266

104, 19575 55A Ave
Surrey, BC V3S 8P8
(604) 514-3322

1357 Dugald Road
Winnipeg, MB R2J 0H3
(204) 982-6630

SAMPLE INFORMATION

COMPANY: Discodory Island Water Quality
ATTENTION: Ned Kote or Paul Fleming

PROJECT: Renewal
LOCATION: Lot 17 Wal 11307 & 11306 Lot 18
Cortez Island
DATE: Nov 01/05 3:00 PM
ANALYSIS REQ'D: Microbiological
Seawater Cals



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V0P 1N0
Attn: Paul Flemming
Sampled By:
Company:

Project ID:
Name: Renewal
Location: 11306 + 11307, Cortex Island
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 420932
Control Number:
Date Received: Nov 02, 2005
Date Reported: Nov 04, 2005
Report Number: 775070

Contact	Company	Address									
Paul Flemming Web Email Notification	Cash Account	Box 180 Quathiaski Cove, BC V0P 1N0 Phone: (250) 830-3744 Email: thewaterguy@uniserve.com									
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Method Result Notes:

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
775070 Env Guide No Disp		

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

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11/4/05 775070 04-Nov-2005



Analytical Report

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Name: Renewal
Location: 11306 + 11307, Cortex Island
LSD:
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Acct. Code:

NWL Lot ID: 420932
Control Number:
Date Received: Nov 02, 2005
Date Reported: Nov 04, 2005
Report Number: 775070

NWL Number 420932-1
Sample Date Nov 01, 2005 3:00:00PM
Sample Description Lot# 17 - Well 11307 / Renewal
Sample Matrix Water

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Microbiological Analysis					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1 . 0	1 . 0	<1 Pass
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1	1 . 0	<1 Pass
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	<2	2	500 Acceptable
Physical and Aggregate Properties					
Temperature	As Received	°C	5 . 0	-	n/a



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Name: Renewal
Location: 11306 + 11307, Cortex Island
LSD:
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NWL Lot ID: 420932
Control Number:
Date Received: Nov 02, 2005
Date Reported: Nov 04, 2005
Report Number: 775070

NWL Number 420932-2
Sample Date Nov 01, 2005 3:00:00PM
Sample Description Lot# 18 - 11306 / Renewal
Sample Matrix Water

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Microbiological Analysis					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1 . 0	1 . 0	<1 Pass
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1	1 . 0	<1 Pass
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	17	2	500 Acceptable
Physical and Aggregate Properties					
Temperature	As Received	°C	5 . 0	-	n/a

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager



Methodology and Notes

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NWL Lot ID: 420932
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Page: 3 of 3

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
E. coli - Colilert	APHA	Enzyme Substrate Test, 9223 B	2-Nov-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA	Heterotrophic Plate Count - Pour Plate Method, 9215 B	2-Nov-05	Norwest Labs Surrey
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	2-Nov-05	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

APHA Standard Methods for the Examination of Water and Wastewater

Comments:

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NWL Lot ID: 407322
Control Number:
Date Received: Sep 09, 2005
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Report Number: 745003

Contact	Company	Address									
Paul Flemming Web Email Notification	Cash Account	Box 180 Quathiaski Cove, BC V0P 1N0 Phone: (250) 830-3744 Email: thewaterguy@uniserve.com									
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745003 Env Guide No Disp

Comment:

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9/15/05 745003 15-Sep-2005



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NWL Number: 407322-1
 Sample Date: Sep 08, 2005 11:30:00AM
 Sample Description: Sisken Lane Cortez Island / Well Head # 11306 - Lot #18
 Sample Matrix: Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable					
Aluminum	Extractable mg/L	0.142	0.005	0.1	Above Aesthetic
Antimony	Extractable mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable mg/L	0.0005	0.0002	0.025	Pass
Barium	Extractable mg/L	0.007	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	0.0006	0.0005	0.05	Pass
Copper	Extractable mg/L	0.002	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 Analysis					
Total Coliforms	Enzyme Substrate TestMPN/100 mL	21.1	1	<1	Fail
Escherichia coli	Enzyme Substrate TestMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate MPN/mL	>738	2	500	Above Aesthetic
Physical and Aggregate Properties					
Colour	Apparent, Potable Colour units	19	5	15	Above Aesthetic
Turbidity	NTU	8.0	0.1	5	Above Aesthetic
Temperature	As Received °C	5.0	-		n/a
Routine Water					
pH		7.58	-	6.5 - 8.5	Acceptable
Sodium	Extractable mg/L	9.2	0.4	200	Acceptable
Iron	Extractable mg/L	1.04	0.03	0.3	Above Aesthetic
Manganese	Extractable mg/L	0.016	0.005	0.05	Acceptable
Chloride	Dissolved mg/L	10.2	0.4	250	Acceptable
Fluoride	mg/L	<0.05	0.05	1.5	Pass
Nitrate - N	mg/L	0.06	0.01	10	Pass
Nitrite - N	mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)	mg/L	1	0.9	500	Acceptable

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Sample Description Sisken Lane Cortez Island / Well Head # 11306 - Lot #18
Sample Matrix Water - General

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
T-Alkalinity	as CaCO3	mg/L 42	5	250-650	Low
Total Dissolved Solids		mg/L 59	1	500	Acceptable
Hardness	as CaCO3	mg/L 31	-		Soft

Approved by: *Marie England*

Marie England
Consulting Scientist



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	14-Sep-05	Norwest Labs Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	14-Sep-05	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Sep-05	Norwest Labs Edmonton
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	14-Sep-05	Norwest Labs Edmonton
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	9-Sep-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate Count (Aerobic SP) - Surrey	APHA	Heterotrophic Plate Count - Pour Plate Method, 9215 B	9-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	14-Sep-05	Norwest Labs Edmonton
Metals Trace (Extractable) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	14-Sep-05	Norwest Labs Edmonton
Total Coliforms- Colilert	APHA	Enzyme Substrate Test, 9223 B	9-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:

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



BCGS MAP, WELL No., ELEV, Location Accuracy, UTM, Date 19, Well Type

Owners Name & Address: Renewal Land Company, Suite 610-220 Cambie St. Vancouver, BC V6B 2T7

Descriptive Location: Lot 17 Well ID #1130

1. TYPE OF WORK: 1 New Well, 2 Reconditioned, 3 Deepened, 4 Abandoned. 2. WORK METHOD: 1 Cable tool, 2 Bored, 3 Jetted, 4 Rotary.

9. CASING: 1 Steel, 2 Galvanized, 3 Wood, 4 Plastic, 5 Concrete, Other

Table with columns: Hole Diameter, Diameter, from, to, Thickness, Weight. Units: ins, ft, ins, lb/ft

3. WATER WELL USE: 1 Domestic, 2 Municipal, 3 Irrigation, 4 Comm. & Ind. Other

Pitless unit: 1 Welded, 2 Cemented, 3 Threaded. 1 New, 2 Used. Perforations:

6. WELL LOG DESCRIPTION table with columns: FROM ft, TO ft, Description, SWL ft. Includes entries like 'Brown cobbly sand & gravel', 'Tight grey silty sand', etc.

Shoe(s): One Six inch. Open hole from to ft. Diameter in. Grout: Benseal

10. SCREEN: 1 Nominal (Telescope), 2 Pipe Size. Type: 1 Continuous Slot, 2 Perforated, 3 Louvre. Material: 1 Stainless Steel, 2 Plastic, Other.

RISER, SCREEN & BLANKS table with columns: Length, Diam. ID, Slot Size, from, to. Units: ft, ins, ins, ft, ft

Fittings, top: K-packer, bottom: blank. Gravel Pack

11. DEVELOPED BY: 1 Surging, 2 Jetting, 3 Air, 4 Bailing, 5 Pumping, Other

12. TEST: 1 Pump, 2 Bail, 3 Air. Date, Rate USgpm, Temp, SWL before test, Water Level after test of hrs

Table for DRAWDOWN and RECOVERY in ft. Columns: mins, WL, mins, WL, mins, WL, mins, WL

13. RECOMMENDED PUMP TYPE, RECOMMENDED PUMP SETTING, RECOMMENDED PUMPING RATE

14. WATER TYPE: 1 fresh, 2 salty, 3 clear, 4 cloudy. Colour, smell, gas, yes/no

15. WATER ANALYSIS: 1 Hardness, 2 Iron, 3 Chloride, 4 pH. Field Date

7. CONSULTANT Address

3. WELL LOCATION SKETCH



SITE ID No, Lab Date approx

WATER QUALITY & QUANTITY NOT GUARANTEED BY THE CONTRACTOR

16. FINAL WELL COMPLETION DATA: Well Depth 125.6 ft, Well Yield 110 US gpm, Static Water Level 20.5 ft, Back filled, Well Head Completion Surface seal

17. DRILLER: PARKER (SURNAME), ROBERT (FIRST NAME). Signature

18. CONTRACTOR: RED WILLIAMS WELL DRILLING LTD

Address: 980 PRATT ROAD, QUALICUM BEACH, BC. Member, BCGWA



BCGS MAP, WELL No., ELEV, Location Accuracy, UTM, Date 19, Well Type

Owners Name & Address: Renewal Land Company, Suite 610-220 Cambie St, Vancouver, BC, V6B 2M6

Legal Description & Address: Lot 18, Well ID# 11301

1. TYPE OF WORK, 2. WORK METHOD, 3. WATER WELL USE, 4. DRILLING ADDITIVES

9. CASING: Materials, Hole Diameter, Diameter, from, to, Thickness, Weight

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

Pitless unit, Welded, Cemented, Threaded, New, Used Perforations

Table with 4 columns: FROM ft, TO ft, 6. WELL LOG DESCRIPTION, SWL ft. Contains detailed log entries from 0 to 288 ft.

Shoe(s), Open hole, from, to, Diameter, Grout: Benseal

10. SCREEN: Type, Material, Set from 2537" to 2583" ft below ground level

RISER, SCREEN & BLANKS table with columns: Length, Diam. I D, Slot Size, from, to

Fittings, top, bottom, Gravel Pack

11. DEVELOPED BY: Surging, Jetting, Air, Bailing, Pumping, Other

12. TEST: Pump, Bail, Air, Date, Rate, Temp, SWL before test, Water Level after test of

Table for DRAWDOWN and RECOVERY in ft with columns for mins and WL

13. RECOMMENDED PUMP TYPE, SETTING, PUMPING RATE

14. WATER TYPE: fresh, salty, clear, cloudy, colour, smell, gas

15. WATER ANALYSIS: Hardness, Iron, Chloride, pH, Field Date, Lab Date

CONSULTANT Address

1. WELL LOCATION SKETCH

WATER QUALITY & QUANTITY NOT GUARANTEED BY THE CONTRACTOR

POSTER SITE ID No, Lab Date approx

16. FINAL WELL COMPLETION DATA: Well Depth, Well Yield, Static Water Level, Back filled, Well Head Completion

17. DRILLER: PARKER, ROBERT

18. CONTRACTOR: RED WILLIAMS WELL DRILLING LTD

980 PRATT ROAD

QUALICUM BEACH, BC

Member, BCGWA

VOK 1W5