

Surrey Edmonton Calgary Lethbridge Winnipeg

 Ph (604) 514-3322
 FAX (604) 514-3323

 Ph (780) 438-5522
 FAX (780) 438-0396

 Ph (403) 291-2022
 FAX (403) 291-2021

 Ph (403) 329-9266
 FAX (403) 327-8527

 Ph (204) 982-8630
 FAX (204) 275-6019

Lot Number: 410010

Date Issued: 27-Sep-05

Sample Id: Siskan Lane, Cortez Island – Well Head Lot #8 – Well #11340

The above mentioned water sample number <u>410010-1</u> supplied by <u>Discovery</u> <u>Islands Water Quality Services</u> 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:

1 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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Lot Number: 410010

Date Issued: 27-Sep-05

Sample Id: Siskan Lane, Cortez Island – Well Head Lot #9 – Well #11338

The above mentioned water sample number <u>410010-2</u> supplied by <u>Discovery</u> <u>Islands Water Quality Services</u> 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:

a

Bill Warning BSc Operations Manager

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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	Project		NWL Lot ID:	410010
Services Report to: Discovery Islands Water Quality Services Box 180 Quathiaski Cove, BC, Canada VOP 1N0 Attn: Paul Flemming Sampled By: Company:	ID: Name: Location: LSD: P.O.: Acct. Code:	Well Head Siskan Lane, Cortez Island	Control Number: Date Received: Date Reported: Report Number:	Sep 21, 2005 Sep 26, 2005 750269

Contact	Company	Address
Paul Flemming	Cash Account	Box 180
We	b	Quathiaski Cove, BC V0P 1N0
Email Notification	n	Phone: (250) 830-3744 Fax:
Copies Deliver	<u>y Strategy Format</u>	Email: thewaterguy@uniserve.com
1 Post		
1 Email -	Single Report PDF	

NOTE: **P** indicates a preliminary report is required

NOTE: A indicates report is delivered using automated delivery

OF PAGES IN THIS TRANSMISSION

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

Id/Format/Reported Date 750269 Env Guide No Disp 26-Sep-05 Id/Format/Reported Date

Id/Format/Reported Date

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.



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Page: 1 of 5

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Services Report to: Discovery Islands Water Quality Services Box 180 Quathiaski Cove, BC, Canada V0P 1N0 Attn: Paul Flemming Sampled By:	ID: Name: Location: LSD: P.O.: Acct. Code:	Well Head Siskan Lane, Cortez Island	Control Number:	
Company:				

		NW	/L Number	410010-1	1 49	
		Sar Sar	mple DateSep 20, 20053:00:00PMmple DescriptionWell Head Lot # 8 / Well # 11340mple MatrixWater - General			0
Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.01	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	0.004	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	0.0005	0.0005	0.05	Pass
Copper	Extractable	mg/L	<0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0001	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.007	0.001	5	Acceptable
Microbiological Anal	lysis					
Total Coliforms	Enzyme Substrate T	estMPN/100 mL	<1.0	1	<1	Pass
Escherichia coli	Enzyme Substrate T	estMPN/100 mL	<1	1	<1	Pass
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	4	2	500	Acceptable
Physical and Aggreg	gate Properties					
Colour	Apparent, Potable	Colour units	5	5	15	Acceptable
Turbidity		NTU	1.8	0.1	5	Acceptable
Temperature	As Received	°C	10	-		n/a
Routine Water						
pН			7.80	-	6.5 - 8.5	Acceptable
Sodium	Extractable	mg/L	10.4	0.4	200	Acceptable
Iron	Extractable	mg/L	0.1	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.01	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	8.2	0.4	250	Acceptable
Fluoride		mg/L	0.05	0.05	1.5	Pass
Nitrate - N		mg/L	0.09	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	56	5	250-650	Low



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Company:			Page:	2 of 5

		Sam Sam	Number ple Date ple Description ple Matrix	410010-1 Sep 20, 2005 3:00:00PM Well Head Lot # 8 / Well # 11340 Water - General		
Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Routine Water -	• • • • • • • •		P 1	1	500	Assertable
Total Dissolved So Hardness	as CaCO3	mg/L mg/L	71 43	1	500	Acceptable Soft



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Page: 3 of 5

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Company:				

nalyteUnitsResultLimitLimitComparisonletals ExtractableluminumExtractablemg/L<0.0050.0050.1AccomparisonntimonyExtractablemg/L<0.00020.00020.006ParticlersenicExtractablemg/L0.00080.00020.025ParticleariumExtractablemg/L0.0040.0011ParticleoronExtractablemg/L0.0040.0025ParticleadmiumExtractablemg/L<0.00010.00010.005ParticleopperExtractablemg/L<0.00010.00111AccomparticleopperExtractablemg/L<0.00110.00111AccomparticleeadExtractablemg/L<0.00050.00050.02ParticleincExtractablemg/L<0.00050.00050.02ParticleincExtractablemg/L<0.00050.0015Accomparticleictobiological AnalysisEnzyme Substrate TestMPN/100 mL<1.01<1Particleotal coliformsEnzyme Substrate TestMPN/100 mL<1.01<1Particleeterotrophic Count -Sim PlateMPN/mL202500AccomparticleolourApparent, PotableColour units<5515Accomparticle	uideline omments cceptable ass ass ass
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eadExtractablemg/L<0.00010.00010.01ParaniumExtractablemg/L<0.0005	cceptable
inc Extractable mg/L 0.002 0.001 5 Ac licrobiological Analysis otal Coliforms Enzyme Substrate TestMPN/100 mL <1.0 1 <1 Pa scherichia coli Enzyme Substrate TestMPN/100 mL <1 1 <1 Pa eterotrophic Count - SimPlate MPN/mL 20 2 500 Ac erobic hysical and Aggregate Properties olour Apparent, Potable Colour units <5 5 15 15 Ac	ass
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-Alkalinity as CaCO3 mg/L 40 5 250-650 Lo	cceptable



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Bill to: Discovery Islands Water Quality Services	Project ID:		NWL Lot ID: Control Number:	410010
Report to: Discovery Islands Water Quality Services Box 180 Quathiaski Cove, BC, Canada VOP 1N0 Attn: Paul Flemming Sampled By: Company:	Name: Location: LSD: P.O.: Acct. Code:	Well Head Siskan Lane, Cortez Island	Date Received: Date Reported: Report Number:	Sep 21, 2005 Sep 26, 2005 750269
			Page:	4 of 5

		Sam Sam	. Number ple Date ple Description ple Matrix	410010-2 Sep 20, 2005 3:30:00PM Well Head Lot # 9 / Well # 11338 Water - General			
Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments	
Routine Water -	Continued						
Total Dissolved Sc	olids	mg/L	55	1	500	Acceptable	
Hardness	as CaCO3	mg/L	32	-		Soft	

Approved by:

Naie Ingland 7

Marie England Consulting Scientist



Methodology and Notes

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

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Company:			Page:	5 of 5

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	APHA :	* Ion Chromatography with Chemical	26-Sep-05	Norwest Labs Edmonton
Chromatography		Suppression of Eluent Cond., 4110 B		
Chloride in Water	АРНА	 Automated Ferricyanide Method, 4500-Cl- E 	23-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	21-Sep-05	Norwest Labs Surrey
Heterotrophic (Standard) Plate	APHA	Heterotrophic Plate Count - Pour Plate	21-Sep-05	Norwest Labs Surrey
Count (Aerobic SP) - Surrey		Method, 9215 B		
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	21-Sep-05	Norwest Labs Surrey
Turbidity in Water	APHA ·	* Nephelometric Method, 2130 B	23-Sep-05	Norwest Labs Edmonton
	* Norwest meth	od(s) is based on reference method		

References:

APHA US EPA Standard Methods for the Examination of Water and Wastewater 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

	ER WE	ELL RECOR	R D		51,51
BCGSMAP	WELL No.	ELEV		Location Accuracy	
Owners Name & Address Arnol Renewal		· · · · ·			SF
Legal Description & Address	KNNU OM	puny oure		wet BC	
				_	
Descriptive Location Lot S			Wel	Velb ^H II	340
OF WORK 3 Deepened 4 At	conditioned andoned	9. CASING: Materials	1 💭 Steel 4 📋 Plastic 🗌 Other	2 Galvanized 5 Goncrete	3 🗌 Wood
2.WORK 1 Cable tool 2 Bored METHOD 4赵 Rotary a Imud b 赵 air Other	3 [] Jetted c []reverse	Diameter Diameter			ins Ins
3. WATER 1 🖾 Domestic 2 🗆 Municipal WELL USE4 🗆 Comm. & Ind. 📋 Other	3 [] Irrigation	$\frac{\text{from } + 2}{\text{to } 2 \leq 1}$	3/11	· · · · · · · · · · · · · · · · · · ·	
4 DRILLING ADDITIVES		Thickness 188	3411		ins
5. MEASUREMENTS from 1 Aground level 2		- weight			lb/f
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tile	eq	IO. SCREEN: 1-		à	Dia.
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130

WATER WATER	WELL	RECORD	
BCGSMAP	WELL No.	ELEV	Location Accuracy
Owners Name & Address Land Renewal	and markeness demonstrate		
Legal Description & Address			Buer BC V6B 2M
Descriptive Location LOT 9			Well IDHII312
I. TYPE 1 New Well 2 Recondit OF WORK 3 Deepened 4 Abandor			⊠ Steel 2 □ Galvanized 3 □ Woo
2. WORK 1 Cable tool 2 Bored 3 J	etted		Plostic 5 Concrete Other
Other	Di	ameter 6	
WELL USE4 Comm. & Ind. Other		to 2201074	
4. DRILLING ADDITIVES		ickness 319	
casing height above ground level		ess unitt Welded 2 []Ceme	ft 1] above 2] below ground leve ented 3] Threaded 1] New 2]
FROM TO 6. WELL LOG DESCRIPTION	ft Perfi	orations:	
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till"	Grou		ftftidenter
grainta sand 9 grave		SCREEN: 1 囟N Type - 1 囚 Continu	ominal (Telescope) 2 Pipe Size
61 87 Grey medicus grain	202	🗋 Other _	
87 103 Grey medium on air	e.d.	Set from 218 4	ss Steel ,2 [] Plastic Other to 고고공고ft below ground level
103 147 Grey fine grained		RISER	, SCREEN & BLANKS
lery silty tight sar	C. Dia	m. ID 5 t Size 0.H5	
147 St Cher Silt, tight 154 BS Cher medium mai		rom 0184	
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	Member, B C G	WA Qyes On	[°] ; -V0K-1W5
The Province of Brilish Colum	nbla accepts no responsibility for th	e contents or accuracy of this record.	V JIN I VV J