



North Island Laboratories

• 2755 B Moray Avenue, Courtenay, B.C. V9N 8M9 Tel: (250) 338-7786 Fax: (250) 338-7553

Certificate of Analysis

Report To: Beaver Creek Improvement District
6038 B Beaver Creek Rd
Port Alberni, BC
V9Y 8X4

Lab Number: 80242
Date Reported: 14 May 10
Date Completed: 14 May 10
Date Received: 5 May 10 14:53

80242-01 6038 Beaver Creek Rd

Office

Kitchen Tap

Sampled By:

Sampling Date: 5 May 10 12:45

Test	Result	Units	Drinking Water Guideline
Alkalinity	24	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Conductivity	44.2	uS	
Hardness (CaCO ₃)	19	mg/L	80-100
pH	7.3	pH Units	6.5-8.5
Total Dissolved Solids	54	mg/L	500 AO
Turbidity	<0.5	NTU's	5 AO
Chloride	3.7	mg/L	250 AO
Fluoride	<1.0	mg/L	1.5 MAC
Nitrate (N)	<0.1	mg/L	10 MAC
Nitrite (N)	<0.1	mg/L	1 MAC
Sulphate	<2.0	mg/L	500 AO
T-Aluminium	0.072	mg/L	0.1 Operational Std.
T-Antimony	<0.0002	mg/L	0.006 MAC
T-Arsenic	<0.0002	mg/L	0.010 MAC
T-Barium	0.002	mg/L	1.0 MAC
T-Boron	0.012	mg/L	5 IMAC
T-Cadmium	0.00001	mg/L	0.005 MAC
T-Calcium	6.61	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Copper	0.189	mg/L	1.0 AO
T-Iron	0.042	mg/L	0.3 AO
T-Lead	0.0011	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	0.54	mg/L	
T-Manganese	0.0015	mg/L	0.05 AO
T-Mercury	<0.01	ug/L	1 ug/L MAC

AO = Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC

> = Greater than; < = Less than

Results relate only to samples as submitted. This certificate must not be reproduced, except in its entirety, without written consent from the laboratory.

Canadian Drinking Water Guidelines as listed on Dec. 5th, 2005 and are subject to

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Sampling Date: 5 May 10 12:45

Test	Result	Units	Drinking Water Guideline
T-Nickel	<0.001	mg/L	
T-Phosphorus	<0.01	mg/L	
T-Potassium	<0.1	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silver	<0.00001	mg/L	
T-Sodium	0.7	mg/L	200 AO
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Zinc	0.007	mg/L	5 AO
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1

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80242-01

For further information regarding sampling, lab results and well disinfection, please check our web site: <http://www.nilabs.com>. For information on wells and ground water see: www.wellwaterprotection.bc.ca
We suggest the following Health Canada website for further information regarding the latest drinking water quality guidelines to help you assess your results:
http://www.hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/guide/doc_sup-appui-eng.php

Total Coliform: The Total Coliform group (of micro-organisms) includes: The fecal coliform, which are common to the intestinal tract of both man and animals, and the non-fecal coliforms that are naturally present in soils and on vegetation. The precise sanitary significance of the Total Coliform test may be difficult to establish. The test is offered as an indicator of bacterial contamination.

E.coli: The E.coli test has been shown to be an indicator of the potential presence of enteric pathogens in water. Because it is relatively specific for fecal contamination, the E.coli measurement is preferred for monitoring raw (untreated i.e. wells) water quality and for indicating the potential presence of pathogens at source. Any untreated supply that contains E.coli should receive disinfection.

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5	NiSL	07/05/2010
Chloride	Ion Chromatography	NiSL	07/05/2010
Colour - Apparent	Exova Subcontract Exova Subcontract	EXL	05/07/2010
Conductivity	Conductivity meter	NiSL	07/05/2010
E. coli (DES)	Colilert 18	NiSL	05/05/2010
Fluoride	Ion Chromatography	NiSL	07/05/2010
Hardness (CaCO ₃)	calc		14/05/2010
Nitrate (N)	Ion Chromatography	NiSL	07/05/2010
Nitrite (N)	Ion Chromatography	NiSL	07/05/2010
pH	pH meter	NiSL	05/05/2010
Sulphate	Ion Chromatography	NiSL	07/05/2010
T-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Barium	ICP-MS, USEPA 200.8 Exovat Subcontract	EXL	05/07/2010
T-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	05/07/2010
T-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Copper	ICP-MS, USEPA 200.8 Exovat Subcontract	EXL	05/07/2010
T-Iron	ICP, APHA 3120B Exova Subcontract	EXL	05/07/2010

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T-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	05/07/2010
T-Manganese	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Mercury	CVAAS Exova Subcontract	EXL	05/07/2010
T-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Phosphorus	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	05/07/2010
T-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Silver	ICP-MS, USEPA 200.8 Exovat Subcontract	EXL	05/07/2010
T-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	05/07/2010
T-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
T-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	05/07/2010
Total Coliforms (DES)	Colilert 18	NiSL	05/05/2010
Total Dissolved Solids	gravimetric Norwest Subcontract	EXL	05/07/2010
Turbidity	Nephelometric	NiSL	06/05/2010

Approved By: 

Catherine Black, Owner/Operator

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