



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: Deep Bay Waterworks Dist.
Attn. Jim Dennison
Operations Coordinator
RR#1 Site 150 C-4
Bowser, BC
V0R 1G0

Lab Number: 76846
Date Reported: 12 Nov 09
Date Completed: 12 Nov 09
Date Received: 2 Nov 09 11:22

Sampled By:
Sampling Date: 2 Nov 09 0:00

Test	Result	Units	Detection Limit
76846-01	Deep Bay Reservoir		
Total Ammonia (N)	<0.01	mg/L	mg/L
Alkalinity	51	mg/L	10 mg/L
Colour - Apparent	<5	Colour units	5 Colour units
Conductivity	104.4	uS	1 uS
Hardness (CaCO ₃)	49	mg/L	1 mg/L
pH	8.1	pH Units	pH Units
Total Dissolved Solids	72	mg/L	5 mg/L
Turbidity	<0.5	NTU's	0.5 NTU's
Chloride	2.2	mg/L	2 mg/L
Fluoride	<1.0	mg/L	1 mg/L
Nitrate (N)	0.2	mg/L	0.1 mg/L
Nitrite (N)	<0.1	mg/L	0.1 mg/L
Sulphate	<2.0	mg/L	2 mg/L
T-Aluminium	0.006	mg/L	0.005 mg/L
T-Antimony	<0.0002	mg/L	0.0002 mg/L
T-Arsenic	0.0003	mg/L	0.0002 mg/L
T-Barium	0.002	mg/L	0.001 mg/L
T-Boron	<0.005	mg/L	0.004 mg/L
T-Cadmium	<0.00001	mg/L	0.00001 mg/L
T-Calcium	16.5	mg/L	0.05 mg/L
T-Chromium	0.0008	mg/L	0.0004 mg/L
T-Copper	<0.001	mg/L	0.001 mg/L
T-Iron	<0.01	mg/L	0.01 mg/L
T-Lead	0.0006	mg/L	0.0001 mg/L
T-Lithium	<0.001	mg/L	0.001 mg/L
T-Magnesium	1.92	mg/L	0.05 mg/L
T-Manganese	<0.0002	mg/L	0.0002 mg/L

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

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76846-01	Deep Bay Reservoir			
T-Mercury	<0.01	ug/L	0.01 ug/L	
T-Nickel	<0.001	mg/L	0.001 mg/L	
T-Phosphorus	<0.01	mg/L	0.01 mg/L	
T-Potassium	0.4	mg/L	0.1 mg/L	
T-Selenium	<0.0006	mg/L	0.0006 mg/L	
T-Silver	<0.00001	mg/L	0.00001 mg/L	
T-Sodium	3.42	mg/L	0.02 mg/L	
T-Uranium	<0.0004	mg/L	0.0004 mg/L	
T-Zinc	0.008	mg/L	0.001 mg/L	
Total Coliforms (DES)	50.4	MPN/100mL	1 MPN/100mL	
E. coli (DES)	<1.0	MPN/100mL	1 MPN/100mL	



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76846-01

This water sample, at the time it was taken, does not meet the Canadian Drinking Water Guidelines for one or more of the parameters tested. Please refer to your results.

This analysis is not to be interpreted as a Water Potability Certificate as this is beyond the authority of North Island Laboratories Ltd.

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	NI&L	06/11/2009
Chloride	Ion Chromatography	NI&L	06/11/2009
Colour - Apparent	Apparent Color	EXL	11/05/2009
Conductivity	Conductivity meter	NI&L	06/11/2009
E. coli (DES)	Colilert 18	NI&L	02/11/2009
Fluoride	Ion Chromatography	NI&L	06/11/2009
Hardness (CaCO ₃)	calc		05/11/2009
Nitrate (N)	Ion Chromatography	NI&L	06/11/2009
Nitrite (N)	Ion Chromatography	NI&L	06/11/2009
pH	pH meter	NI&L	03/11/2009
Sulphate	Ion Chromatography	NI&L	06/11/2009
T-Aluminium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Antimony	Trace Metals (Total) in Water	EXL	11/05/2009
T-Arsenic	Trace Metals (Total) in Water	EXL	11/05/2009
T-Barium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Boron	Trace Metals (Total) in Water	EXL	11/05/2009
T-Cadmium	Trace Metals (Total) in Water	EXL	11/05/2009

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T-Calcium	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Chromium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Copper	Trace Metals (Total) in Water	EXL	11/05/2009
T-Iron	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Lead	Trace Metals (Total) in Water	EXL	11/05/2009
T-Lithium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Magnesium	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Manganese	Trace Metals (Total) in Water	EXL	11/05/2009
T-Mercury	Mercury Low Level (Total) in water	EXL	11/05/2009
T-Nickel	Trace Metals (Total) in Water	EXL	11/05/2009
T-Phosphorus	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Potassium	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Selenium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Silver	Trace Metals (Total) in Water	EXL	11/05/2009
T-Sodium	Metals SemiTrace (Total) in Water	EXL	11/05/2009
T-Uranium	Trace Metals (Total) in Water	EXL	11/05/2009
T-Zinc	Trace Metals (Total) in Water	EXL	11/05/2009
Total Ammonia (N)	Ammonia-N in Water	EXL	11/05/2009
Total Coliforms (DES)	Colilert 18	NI&L	02/11/2009
Total Dissolved Solids	Solids Dissolved (Total, Fixed and Volatile) ²	EXL	11/05/2009
Turbidity	Nephelometric	NI&L	02/11/2009

Approved By: _____

Sandra Felgenhauer, M.Sc. or
Catherine Black, B.Sc. (co-owners)