

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: Union Bay Improvement District
PO Box 70
Union Bay BC
V0R 3B0

Lab Number: 72819
Date Reported: 7 Apr 09
Date Completed: 20 Apr 09
Date Received: 7 Apr 09 13:53

72819-01 Langley Lake raw water

Sampled By: UBID
Sampling Date: 7 Apr 09 0:00

Test	Result	Units	Drinking Water Guidelines
Alkalinity	11	mg/L	
Colour - Apparent	24	Colour units	15 AO
Conductivity	35.7	uS	
Hardness (CaCO ₃)	10	mg/L	80-100
pH	6.75	pH	6.5-8.5
Total Dissolved Solids	38	mg/L	500 AO
Turbidity	2.1	NTU's	5 AO
Chloride	3.0	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	3.2 MAC
Sulphate	3.8	mg/L	500 AO
T-Aluminum	0.092	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	0.004	mg/L	1.0 MAC
T-Boron	0.008	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	2.8	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Copper	0.002	mg/L	1.0 AO
T-Iron	0.33	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	0.77	mg/L	
T-Manganese	0.006	mg/L	0.05 AO
T-Mercury	<0.01	ug/L	1 ug/L MAC

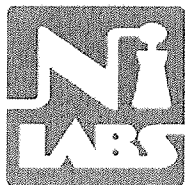
AO = Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC
> = Greater than; < = Less than

Results relate only to samples as submitted

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

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72819-01 Langley Lake raw water

Sampled By: UBID

Sampling Date: 7 Apr 09 0:00

Test	Result	Units	Drinking Water Guidelines
T-Nickel	<0.001	mg/L	
T-Phosphorus	<0.01	mg/L	
T-Potassium	0.2	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silver	<0.00001	mg/L	
T-Sodium	3.05	mg/L	200 AO
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Zinc	0.006	mg/L	5 AO
Total Coliforms (DES)	1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1

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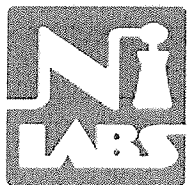
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72819-01

This water sample, at the time it was taken, does not meet the Canadian Drinking Water Guidelines for one or more 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.

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5	NIsL	16/04/2009
Chloride	Ion Chromatography	NIsL	09/04/2009
Colour - Apparent	Colour (Apparent) in water	BTG	14/04/2009
Conductivity	Conductivity meter	NIsL	08/04/2009
E. coli (DES)	Colilert 18	NIsL	07/04/2009
Fluoride	Ion Chromatography	NIsL	09/04/2009
Hardness (CaCO3)	calc		
Nitrate (N)	Ion Chromatography	NIsL	09/04/2009
Nitrite (N)	Ion Chromatography	NIsL	09/04/2009
pH	pH in water (Surrey)	NIsL	14/04/2009
Sulphate	Ion Chromatography	NIsL	09/04/2009
T-Aluminum	Trace Metals (Total) in Water	BTG	14/04/2009
T-Antimony	Trace Metals (Total) in Water	BTG	14/04/2009
T-Arsenic	Trace Metals (Total) in Water	BTG	14/04/2009
T-Barium	Trace Metals (Total) in Water	BTG	14/04/2009
T-Boron	Trace Metals (Total) in Water	BTG	14/04/2009
T-Cadmium	Trace Metals (Total) in Water	BTG	14/04/2009
T-Calcium	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Chromium	Trace Metals (Total) in Water	BTG	14/04/2009
T-Copper	Trace Metals (Total) in Water	BTG	14/04/2009
T-Iron	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Lead	Trace Metals (Total) in Water	BTG	14/04/2009
T-Lithium	Trace Metals (Total) in Water	BTG	14/04/2009
T-Magnesium	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Manganese	Trace Metals (Total) in Water	BTG	14/04/2009
T-Mercury	Mercury Low Level (Total) in water	BTG	14/04/2009
T-Nickel	Trace Metals (Total) in Water	BTG	14/04/2009
T-Phosphorus	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Potassium	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Selenium	Trace Metals (Total) in Water	BTG	14/04/2009
T-Silver	Trace Metals (Total) in Water	BTG	14/04/2009
T-Sodium	Metals SemiTrace (Total) in Water	BTG	14/04/2009
T-Uranium	Trace Metals (Total) in Water	BTG	14/04/2009

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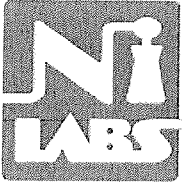
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T-Zinc	Trace Metals (Total) in Water	BTG	14/04/2009
Total Coliforms (DES)	Colilert 18	NIsL	07/04/2009
Total Dissolved Solids	Solids Dissolved (Total, Fixed and Volatile) ²	BTG	14/04/2009
Turbidity	Nephelometric	NIsL	07/04/2009

Approved By: _____

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

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