



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: 94160
Date Reported: 5 Apr 12
Date Completed: 5 Apr 12
Date Received: 23 Mar 12 12:27

94160-01 McLeod Res

Sampled By: Dan
Sampling Date: 23 Mar 12 12:00

Test	Result	Units	Drinking Water Guideline
Colour - Apparent	23	Colour Units	15
pH	6.5	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	3.6	mg/L	250 AO
Nitrate (N)	0.08	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	2.8	mg/L	500 AO
T-Aluminium	0.121	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	0.005	mg/L	1.0 MAC
T-Beryllium	<0.00004	mg/L	
T-Bismuth	<0.001	mg/L	
T-Boron	0.01	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	2.51	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Cobalt	0.00005	mg/L	
T-Copper	0.01	mg/L	1.0 AO
T-Iron	0.116	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	0.7	mg/L	
T-Manganese	<0.005	mg/L	0.05 AO
T-Molybdenum	<0.0001	mg/L	
T-Nickel	0.007	mg/L	
T-Phosphorus	<0.01	mg/L	

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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94160-01 McLeod Res

Sampled By: Dan

Sampling Date: 23 Mar 12 12:00

Test	Result	Units	Drinking Water Guideline
T-Potassium	0.2	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	2.47	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	2.53	mg/L	200 AO
T-Strontium	0.014	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	0.006	mg/L	
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Vanadium	0.0004	mg/L	
T-Zinc	0.001	mg/L	5 AO
Hardness (CaCO ₃)	9.2	mg/L	
Tannins & Lignins	0.2	mg/L	0.4 AO
UV Transmittance	84	%/cm	
Alkalinity	<20	mg/L (CaCO ₃)	
Turbidity	2.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	22	mg/L	500 AO

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94160-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	3/23/2012
Chloride	Ion Chromatography, EPA 300.1 -modified	NiSL	3/23/2012
Colour - Apparent	Spectrophotometer, APHA 2120 C -modified	NiSL	3/23/2012
Fluoride	Ion Chromatography, EPA 300.1 -modified	NiSL	3/23/2012
Hardness (CaCO ₃)	Hardness by Calculation, APHA 2340 B -modified	NiSL	4/5/2012
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	3/23/2012
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	3/23/2012
pH	Electrometric, APHA 4500 B -modified	NiSL	3/23/2012
Sulphate	Ion Chromatography, EPA 300.1 -modified	NiSL	3/23/2012
T-Aluminium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Antimony	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Arsenic	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Barium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Beryllium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Bismuth	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Boron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Cadmium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Calcium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Chromium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Cobalt	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Copper	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Iron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Lead	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Lithium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Magnesium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Manganese	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Molybdenum	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Nickel	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Phosphorus	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Potassium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Selenium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Silicon	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Silver	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Sodium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012

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T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	3/29/2012
Tannins & Lignins	Exova Subcontract,Colorimetric,APHA 5550B-modified	EXL	3/30/2012
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NiSL	3/23/2012
Turbidity	Nephelometric, APHA 2130 B -modified	NiSL	3/23/2012
UV Transmittance	APHA 5910 C -modified	NiSL	3/23/2012

Approved By:

Ramona S, Lab Tech

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