



# 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: 99478  
Date Reported: 10 Dec 12  
Date Completed: 10 Dec 12  
Date Received: 28 Nov 12 11:17

### 99478-01 McLeod Reservoir

Sampled By: Dan  
Sampling Date: 28 Nov 12 10:52

Test	Result	Units	Drinking Water Guideline
Colour - Apparent	14	Colour Units	15
pH	6.4	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	4.5	mg/L	250 AO
Nitrate (N)	0.11	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	2.7	mg/L	500 AO
T-Aluminium	0.066	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	0.00008	mg/L	0.010 MAC
T-Barium	0.00651	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.013	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	3.13	mg/L	
T-Chromium	<0.0005	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.014	mg/L	1.0 AO
T-Iron	0.112	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	0.0005	mg/L	
T-Magnesium	0.84	mg/L	
T-Manganese	0.007	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.2	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

12/10/2012 12:44

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## 99478-01 McLeod Reservoir

Sampled By: Dan

Sampling Date: 28 Nov 12 10:52

Test	Result	Units	Drinking Water Guideline
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	2.12	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	3.4	mg/L	200 AO
T-Strontium	0.0208	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0003	mg/L	
T-Titanium	0.0033	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0003	mg/L	
T-Zinc	0.0016	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	11	mg/L	
Tannins & Lignins	0.2	mg/L	0.4 AO
Alkalinity	<20	mg/L (CaCO <sub>3</sub> )	
Turbidity	1.2	NTU's	5 AO
Total Dissolved Solids (conductivity ca	27	mg/L	500 AO
Bromodichloromethane	0.002	mg/L	0.016 MAC
Bromoform	<0.001	mg/L	
Chloroform	0.027	mg/L	
Dibromochloromethane	<0.001	mg/L	
Total Trihalomethanes	0.029	mg/L	0.100 MAC

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

99478-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	11/30/2012
Bromodichloromethane	Exova Subcontract-EPA 8260B/5035 - modified	EXL	12/5/2012
Bromoform	Exova Subcontract-EPA 8260B/5035 - modified	EXL	12/5/2012
Chloride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/29/2012
Chloroform	Exova Subcontract-EPA 8260B/5035 - modified	EXL	12/5/2012
Colour - Apparent	Spectrophotometer, APHA 2120 C -modified	NiSL	11/28/2012
Dibromochloromethane	Exova Subcontract-EPA 8260B/5035 - modified	EXL	12/5/2012
Fluoride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/29/2012
Hardness (CaCO <sub>3</sub> )	Hardness by Calculation, APHA 2340 B -modified	NiSL	12/10/2012
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/29/2012
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/29/2012
pH	Electrometric, APHA 4500 B -modified	NiSL	11/30/2012
Sulphate	Ion Chromatography, EPA 300.1 -modified	NiSL	11/29/2012
T-Aluminium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Antimony	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Arsenic	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Barium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Beryllium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Bismuth	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Boron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Cadmium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Calcium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Chromium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Cobalt	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Copper	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Iron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Lead	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Lithium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Magnesium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Manganese	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Molybdenum	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Nickel	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Potassium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Selenium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Silicon	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012

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T-Silver	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Sodium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	12/3/2012
Tannins & Lignins	Exova Subcontract,Colorimetric,APHA 5550B-modified	EXL	12/4/2012
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NIsL	11/30/2012
Total Trihalomethanes	Exova Subcontract-EPA 8260B/5035 - modified	EXL	12/5/2012
Turbidity	Nephelometric, APHA 2130 B -modified	NIsL	11/28/2012

Approved By:

Catherine Black, Owner/Operator

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