



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: Qualicum Bay Horne Lake
Waterworks Dist.
234 Lions Way
Qualicum Beach, BC
V9K 2E2

Lab Number: 83381
Date Reported: 8 Oct 10
Date Completed: 8 Oct 10
Date Received: 28 Sep 10 12:07

83381-01 #1 Well at well head

Sampled By: Rodger
Sampling Date: 28 Sep 10 10:30

Test	Result	Units	Drinking Water Guideline
Alkalinity	70	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	1.34	mg/L	250 AO
Fluoride	0.06	mg/L	1.5 MAC
Nitrate (N)	<0.01	mg/L	10 MAC
Nitrite (N)	<0.005	mg/L	1 MAC
Sulphate	2.7	mg/L	500 AO
Colour - Apparent	<5	Colour units	
Conductivity	152.7	uS	
Corrosivity	0.2		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH	8.56		6.5-8.5
Sulphide	<0.002	mg/L	0.05 AO
Total Dissolved Solids	118	mg/L dried at 180 °	500 AO
Total Organic Carbon	1.1	mg/L	
Total Organic Nitrogen	0.29	mg/L	
T-Aluminium	<0.005	mg/L	0.1 Operational Std
T-Antimony	<0.0002	mg/L	0.006 MAC
T-Arsenic	0.0016	mg/L	0.010 MAC
T-Barium	0.004	mg/L	1.0 MAC
T-Beryllium	<0.00004	mg/L	
T-Boron	0.015	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	19.5	mg/L	
T-Chromium	<0.0004	mg/L	0.05 MAC
T-Cobalt	0.00004	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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Sampled By: Rodger

Sampling Date: 28 Sep 10 10:30

Test	Result	Units	Drinking Water Guideline
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	0.011	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	0.059	mg/L	
T-Magnesium	4.89	mg/L	
T-Manganese	0.14	mg/L	0.05 AO
T-Molybdenum	0.0003	mg/L	
T-Nickel	<0.001	mg/L	
T-Phosphorus	0.111	mg/L	
T-Potassium	1.6	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	7.92	mg/L	
T-Silver	0.00002	mg/L	
T-Sodium	4.63	mg/L	200 AO
T-Strontium	0.04	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0010	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	0.0041	mg/L	
T-Zinc	0.006	mg/L	5.0 AO
Hardness (CaCO ₃)	69	mg/L	80-100
Turbidity	<0.5	NTU's	5 AO

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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/index-eng.php>

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA based method	NiSL	01/10/2010
Chloride	TM6.1 APHA based	EXL	10/01/2010
Colour - Apparent	Exova Subcontract Exova Subcontract	EXL	10/01/2010
Conductivity	Conductance meter	NiSL	01/10/2010
Corrosivity	calc.		
Fluoride	TM6.1 APHA based	EXL	10/01/2010
Hardness (CaCO ₃)	calculation	EXL	08/10/2010
Nitrate (N)	TM6.1 APHA based	EXL	01/10/2010
Nitrite (N)	TM6.1 APHA based	EXL	01/10/2010
pH	pH meter	NiSL	10/01/2010
Sulphate	TM6.1 APHA based	EXL	01/10/2010
Sulphide	Gas Dialysis APHA 4500-S2-E-Exova Subcontract	EXL	10/01/2010
T-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Barium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Beryllium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Bismuth	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Cobalt	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Copper	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Iron	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Manganese	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Mercury	Cold Vapor Atomic Absor, MDMES 245.1-Norwest Su	EXL	10/01/2010
T-Molybdenum	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Phosphorus	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010

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T-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Silicon	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Silver	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Strontium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Thallium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Tin	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Titanium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
T-Vanadium	ICP, APHA 3120B Exova Subcontract	EXL	10/01/2010
T-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	10/01/2010
Total Ammonia (N)	Exova Subcontract - APHA 4500-NH3 C based	EXL	10/01/2010
Total Dissolved Solids	gravimetric - Exova Subcontract	NISL	10/01/2010
Total Organic Carbon	Exova Subcontract Exova Subcontract	EXL	10/01/2010
Total Organic Nitrogen	Exova Subcontract Exova Subcontract	EXL	10/01/2010
Turbidity	Nephelometer	NISL	29/09/2010

Approved By:

Catherine Black, Owner/Operator

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