



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.
Leslie
5031 Mountain View Road
Bowser, BC V0R 1G0

Lab Number: 87650
Date Reported: 25 May 11
Date Completed: 25 May 11
Date Received: 10 May 11 12:02

87650-01 Well #4

Sampled By: Ron
Sampling Date: 10 May 11 10:30

Test	Result	Units	Drinking Water Guideline
Alkalinity	38	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	<2.0	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	1 MAC
Sulphate	<2.0	mg/L	500 AO
Colour - Apparent	<5	Colour units	
Conductivity	80.9	uS	
Iron Bacteria	None Detected	cfu/mL	
Sulphur Bacteria	None Detected	cfu/mL	
Corrosivity	-1.79		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH	6.9	pH Units	6.5-8.5
Sulphide	<0.005	mg/L	0.05 AO
Total Coliforms (MF)	<1	CFU/100mL	<1
E. coli	<1	CFU/100mL	<1
Non-Coliform Background	<1	CFU/100mL	
Total Dissolved Solids	68	mg/L	500 AO
Total Organic Carbon	0.8	mg/L	
Total Organic Nitrogen	0.09	mg/L	
Total Plate Count	<3	CFU/ml	
T-Aluminium	<0.005	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	<0.001	mg/L	1.0 MAC
T-Beryllium	<0.00004	mg/L	

AO = Aesthetic Objective; MAC = Max. Allowable Concentration; IMAC = Interim MAC

> = Greater than; < = Less than

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87650-01 Well #4

Sampled By: Ron

Sampling Date: 10 May 11 10:30

Test	Result	Units	Drinking Water Guideline
T-Boron	<0.005	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	0.00005	mg/L	0.005 MAC
T-Calcium	9.14	mg/L	
T-Chromium	0.0006	mg/L	0.05 MAC
T-Cobalt	<0.00002	mg/L	
T-Copper	0.058	mg/L	1.0 AO
T-Iron	<0.01	mg/L	0.3 AO
T-Lead	0.0111	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	2.19	mg/L	
T-Manganese	<0.005	mg/L	0.05 AO
T-Molybdenum	<0.0001	mg/L	
T-Nickel	0.002	mg/L	
T-Phosphorus	<0.01	mg/L	
T-Potassium	0.2	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	10	mg/L	
T-Silver	0.00002	mg/L	
T-Sodium	3.5	mg/L	200 AO
T-Strontium	0.029	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0002	mg/L	
T-Titanium	<0.001	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	0.0012	mg/L	
T-Zinc	0.133	mg/L	5.0 AO
Hardness (CaCO ₃)	32	mg/L	80-100
Turbidity	<0.5	NTU's	5 AO

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87650-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA based method	NiSL	12/05/2011
Chloride	TM6.1 APHA based	NiSL	11/05/2011
Colour - Apparent	Exova Subcontract Exova Subcontract	EXL	13/05/2011
Conductivity	Conductance meter	NiSL	13/05/2011
Corrosivity	Langelier Saturation Index, www.awwa.org	HE	24/05/2011
E. coli	Membrane Filtration, APHA 9222	NiSL	10/05/2011
Fluoride	TM6.1 APHA based	NiSL	11/05/2011
Hardness (CaCO ₃)	Exova subcontract Exova Subcontract	EXL	11/05/2011
Iron Bacteria	Subcontracted Test	MBL	10/05/2011
Nitrate (N)	TM6.1 APHA based	NiSL	11/05/2011
Nitrite (N)	TM6.1 APHA based	NiSL	11/05/2011
Non-Coliform Background	Membrane Filtration, APHA 9222	NiSL	10/05/2011
pH	pH meter	NiSL	12/05/2011
Sulphate	TM6.1 APHA based	NiSL	11/05/2011
Sulphide	Gas Dialysis APHA 4500-S2-E-Exova Subcontract	EXL	16/05/2011
Sulphur Bacteria	Subcontracted Test	MBL	10/05/2011
T-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Barium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Beryllium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Bismuth	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Cobalt	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Copper	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Iron	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Manganese	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Mercury	Cold Vapor Atomic Absor, MDMES 245.1-Norwest Su	EXL	12/05/2011
T-Molybdenum	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011

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T-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Phosphorus	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Silicon	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Silver	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Strontium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Thallium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Tin	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Titanium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
T-Vanadium	ICP, APHA 3120B Exova Subcontract	EXL	11/05/2011
T-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	11/05/2011
Total Ammonia (N)	Exova Subcontract - APHA 4500-NH3 C based	EXL	16/05/2011
Total Coliforms (MF)	Membrane Filtration, APHA 9222	NIsL	10/05/2011
Total Dissolved Solids	gravimetric - Exova Subcontract	EXL	12/05/2011
Total Organic Carbon	Exova Subcontract Exova Subcontract	EXL	13/05/2011
Total Organic Nitrogen	Exova Subcontract Exova Subcontract	EXL	12/05/2011
Total Plate Count	MF-APHA 9215 D	NIsL	10/05/2011
Turbidity	Nephelometer	NIsL	10/05/2011

Approved By: 
Catherine Black, Owner/Operator

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