## **Certificate of Analysis**

Report To: Deep Bay Waterworks Dist.

Leslie

5031 Mountain View Road Bowser, BC V0R 1G0 Lab Number: 91431

Date Reported: 10 Nov 11
Date Completed: 10 Nov 11
Date Received: 1 Nov 11 13:47

#### 91431-01 Well #5

Sampled By: Don Buchner Sampling Date: 1 Nov 11 11:40

Test	Result	Units	Drinking Water Guideline
Total Ammonia (N)	<0.01	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
pH	7.5	pH Units	6.5-8.5
Alkalinity	44	mg/L (CaCO3)	
Turbidity	< 0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	60	mg/L	500 AO
Fluoride	0.08	mg/L	1.5 MAC
Chloride	1.8	mg/L	250 AO
Nitrate (N)	0.14	mg/L	10 MAC
Nitrite (N)	< 0.05	mg/L	1 MAC
Sulphate	0.8	mg/L	500 AO
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	0.002	mg/L	1.0 MAC
T-Beryllium	< 0.00004	mg/L	
T-Bismuth	< 0.001	mg/L	
T-Boron	< 0.005	mg/L	5 IMAC
T-Cadmium	< 0.00001	mg/L	0.005 MAC
T-Calcium	10.1	mg/L	
T-Chromium	0.0006	mg/L	0.05 MAC
T-Cobalt	< 0.00002	mg/L	
T-Copper	0.001	mg/L	1.0 AO
T-Iron	< 0.01	mg/L	0.3 AO
T-Lead	0.0001	mg/L	0.010 MAC
T-Lithium	< 0.001	mg/L	

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

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

10/11/2011 15:31

<sup>&</sup>gt; = Greater than; < = Less than

### 91431-01 Well #5

Sampled By: Don Buchner Sampling Date: 1 Nov 11 11:40

Test	Result	Units	Drinking Water Guideline
T-Magnesium	3.19	mg/L	
T-Manganese	< 0.005	mg/L	0.05 AO
T-Molybdenum	< 0.0001	mg/L	
T-Nickel	< 0.001	mg/L	
T-Phosphorus	< 0.01	mg/L	
T-Potassium	0.3	mg/L	
T-Selenium	< 0.0006	mg/L	0.01 MAC
T-Silicon	3.09	mg/L	
T-Silver	< 0.00001	mg/L	
T-Sodium	2.68	mg/L	200 AO
T-Strontium	0.024	mg/L	
T-Thallium	< 0.00001	mg/L	
T-Tin	< 0.0001	mg/L	
T-Titanium	0.002	mg/L	
T-Uranium	< 0.0004	mg/L	0.02 MAC
T-Vanadium	0.0023	mg/L	
T-Zinc	0.004	mg/L	5 AO
Hardness (CaCO3)	38	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Tannins & Lignins	< 0.1	mg/L	0.4 AO
UV Transmittance	96.1	%/cm	

### 91431-01

Alkalinity Titration to 4.5, APHA 2320 B -modified NISL 04/11/2011 Chloride Ion Chromatography, EPA 300.1 -modified NISL 07/11/2011 Colour - Apparent Exova Subcontract, APHA 2120 C -modified EXL 11/03/2011 E. coli (DES) Enzyme Substrate, APHA 9223 B -modified NISL 01/11/2011 Fluoride Ion Chromatography, EPA 300.1 -modified NISL 07/11/2011 Hardness (CaCO3) Hardness by Calculation, APHA 2340 B -modified EXL Nitrate (N) Ion Chromatography, EPA 300.1 -modified NISL 07/11/2011 Nitrite (N) Ion Chromatography, EPA 300.1 -modified NISL 07/11/2011 pH Electrometric, APHA 4500 B -modified NISL 04/11/2011 Sulphate Ion Chromatography, EPA 300.1 -modified NISL 07/11/2011 T-Aluminium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011 T-Antimony Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011 T-Arsenic Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
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Fluoride Ion Chromatography, EPA 300.1 -modified NIsL 07/11/2011 Hardness (CaCO3) Hardness by Calculation, APHA 2340 B -modified EXL  Nitrate (N) Ion Chromatography, EPA 300.1 -modified NIsL 07/11/2011  Nitrite (N) Ion Chromatography, EPA 300.1 -modified NIsL 07/11/2011  pH Electrometric, APHA 4500 B -modified NIsL 04/11/2011  Sulphate Ion Chromatography, EPA 300.1 -modified NIsL 07/11/2011  T-Aluminium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011  T-Antimony Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011  T-Arsenic Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
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T-Barium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Beryllium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Bismuth Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Boron Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Cadmium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Calcium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Chromium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Cobalt Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Copper Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Iron Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Lead Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Lithium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Magnesium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Manganese Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Molybdenum Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Nickel Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Phosphorus Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Potassium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Selenium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Silicon Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Silver Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011
T-Sodium Exova Subcontract, ICP-AES,EPA6010C,200.8-modified EXL 11/03/2011

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# North Island Laboratories

9755 B Moray Avenue, Courtenay, B.C. V9N 8M9 Tel: (950) 338-7786 Fax: (950) 338-7553

T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/03/2011
Tannins & Lignins	Exova Subcontract, Colorimetric, APHA 5550B-modified	EXL	11/03/2011
Total Ammonia (N)	Exova Subcontract, APHA 4500-NH3 C -modified	EXL	11/03/2011
Total Coliforms (DES)	Enzyme Substrate, APHA 9223 B -modified	NIsL	01/11/2011
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NIsL	04/11/2011
Turbidity	Nephelometric, APHA 2130 B -modified	NIsL	02/11/2011
UV Transmittance	Exova Subcontract, APHA 5910 B -modified	EXL	11/03/2011

Approved By:

Catherine Black, Owner/Operator