



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: 91433
Date Reported: 10 Nov 11
Date Completed: 10 Nov 11
Date Received: 1 Nov 11 13:57

91433-01 Well #8

Sampled By: Don Buchner
Sampling Date: 1 Nov 11 11:20

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	41	mg/L (CaCO ₃)	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca)	56	mg/L	500 AO
Fluoride	0.08	mg/L	1.5 MAC
Chloride	1.7	mg/L	250 AO
Nitrate (N)	0.07	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.6	mg/L	500 AO
T-Aluminium	0.037	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	
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	9.71	mg/L	
T-Chromium	0.0008	mg/L	0.05 MAC
T-Cobalt	<0.00002	mg/L	
T-Copper	0.002	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

> = 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.

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91433-01 Well #8

Sampled By: Don Buchner

Sampling Date: 1 Nov 11 11:20

Test	Result	Units	Drinking Water Guideline
T-Magnesium	2.95	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	0.011	mg/L	
T-Potassium	0.3	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	7.6	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	2.6	mg/L	200 AO
T-Strontium	0.024	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	0.005	mg/L	
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Vanadium	0.0022	mg/L	
T-Zinc	0.004	mg/L	5 AO
Hardness (CaCO ₃)	36	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	94.8	%/cm	

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

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

91433-01

Test	Method	Analyst	Date
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 (CaCO ₃)	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
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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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

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Certificate of Analysis

Report To: Deep Bay Waterworks Dist.
Leslie
5031 Mountain View Road
Bowser, BC V0R 1G0

Lab Number: 91432
Date Reported: 10 Nov 11
Date Completed: 10 Nov 11
Date Received: 1 Nov 11 13:52

91432-01 Well #6

Sampled By: Don Buchner
Sampling Date: 1 Nov 11 12:00

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	7.6	pH Units	6.5-8.5
Alkalinity	49	mg/L (CaCO ₃)	
Turbidity	0.8	NTU's	5 AO
Total Dissolved Solids (conductivity ca	65	mg/L	500 AO
Fluoride	0.07	mg/L	1.5 MAC
Chloride	1.4	mg/L	250 AO
Nitrate (N)	<0.05	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.7	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	0.001	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	11.5	mg/L	
T-Chromium	0.0008	mg/L	0.05 MAC
T-Cobalt	<0.00002	mg/L	
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	0.058	mg/L	0.3 AO
T-Lead	0.0001	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	

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91432-01 Well #6

Sampled By: Don Buchner

Sampling Date: 1 Nov 11 12:00

Test	Result	Units	Drinking Water Guideline
T-Magnesium	3.6	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	0.017	mg/L	
T-Potassium	<0.1	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	7.98	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	2.78	mg/L	200 AO
T-Strontium	0.025	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	0.0025	mg/L	
T-Zinc	0.003	mg/L	5 AO
Hardness (CaCO ₃)	44	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	95.1	%/cm	

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91432-01

Test	Method	Analyst	Date
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 (CaCO ₃)	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
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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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

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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 (CaCO ₃)	
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	

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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 (CaCO ₃)	38	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	96.1	%/cm	

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

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91431-01

Test	Method	Analyst	Date
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 (CaCO ₃)	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
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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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

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Certificate of Analysis

Report To: Deep Bay Waterworks Dist.
Leslie
5031 Mountain View Road
Bowser, BC V0R 1G0

Lab Number: 79675
Date Reported: 16 Apr 10
Date Completed: 16 Apr 10
Date Received: 6 Apr 10 13:26

79675-01 Deep Bay Reservoir

Sampled By: Ijim
Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
Total Ammonia (N)	<0.01	mg/L	
Alkalinity	45	mg/L	
Colour - Apparent	<5	Colour units	15 AO
Conductivity	98.4	uS	
Hardness (CaCO ₃)	41	mg/L	80-100
pH	7.8	pH Units	6.5-8.5
Total Dissolved Solids	74	mg/L	500 AO
Turbidity	<0.5	NTU's	5 AO
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	3.2 MAC
Sulphate	<2.0	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-Boron	0.011	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	14.4	mg/L	
T-Chromium	0.0008	mg/L	0.05 MAC
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	<0.01	mg/L	0.3 AO
T-Lead	0.0002	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	1.79	mg/L	
T-Manganese	<0.0002	mg/L	0.05 AO

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North Island Laboratories

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
T-Mercury	<0.01	ug/L	1 ug/L MAC
T-Nickel	<0.001	mg/L	
T-Phosphorus	<0.01	mg/L	
T-Potassium	0.5	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silver	<0.00001	mg/L	
T-Sodium	3.04	mg/L	200 AO
T-Uranium	<0.0004	mg/L	0.02 MAC
T-Zinc	0.01	mg/L	5 AO
Total Coliforms (DES)	1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
d-Aluminium	<0.005	mg/L	
d-Antimony	<0.0002	mg/L	
d-Arsenic	<0.0002	mg/L	
d-Barium	0.002	mg/L	
d-Beryllium	<0.00004	mg/L	
d-Boron	0.005	mg/L	
d-Cadmium	<0.00001	mg/L	
d-Calcium	13.7	mg/L	
d-Chromium	0.0006	mg/L	
d-Cobalt	<0.00002	mg/L	
d-Copper	<0.001	mg/L	
d-Iron	<0.01	mg/L	
d-Lead	<0.0001	mg/L	
d-Lithium	<0.001	mg/L	
d-Magnesium	1.7	mg/L	
d-Manganese	<0.0002	mg/L	
d-Molybdenum	<0.0001	mg/L	
d-Nickel	<0.001	mg/L	
d-Phosphorus	<0.01	mg/L	
d-Potassium	0.6	mg/L	
d-Selenium	<0.0006	mg/L	
d-Silicon	8.57	mg/L	
d-Silver	<0.00001	mg/L	

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
d-Sodium	2.8	mg/L	
d-Strontium	0.036	mg/L	
d-Thallium	<0.00001	mg/L	
d-Tin	<0.0001	mg/L	
d-Titanium	<0.01	mg/L	
d-Uranium	<0.0004	mg/L	
d-Vanadium	0.0019	mg/L	
d-Zinc	0.01	mg/L	
Hardness (CaCO ₃)	41	mg/L	
EPH (C10-C19)	<100	ug/L	
EPH (C19-C32)	<100	ug/L	
Fecal Coliforms (MF)	<1	CFU/100ml	
MRMW, PD30, VOC5W, PHGLYPW	see attached		
Aroclor 1016	<0.1	ug/L	
Aroclor 1221	<0.1	ug/L	
Aroclor 1232	<0.1	ug/L	
Aroclor 1242	<0.1	ug/L	
Aroclor 1248	<0.1	ug/L	
Aroclor 1254	<0.1	ug/L	
Aroclor 1260	<0.1	ug/L	
Aroclor 1262	<0.1	ug/L	
Aroclor 1268	<0.1	ug/L	
Total PCBs	<0.1	ug/L	
Acenaphthene	<0.1	ug/L	
Acenaphthylene	<0.1	ug/L	
Acridine	<0.05	ug/L	
Anthracene	<0.1	ug/L	
Benzo(a)anthracene	<0.01	ug/L	
Benzo(a)pyrene	<0.01	ug/L	0.01 MAC
Benzo(b)fluoranthene	<0.01	ug/L	
Benzo(g,h,i)perylene	<0.1	ug/L	
Benzo(k)fluoranthene	<0.02	ug/L	
Chrysene	<0.1	ug/L	
Dibenzo(a,h,)anthracene	<0.01	ug/L	

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79675-01 Deep Bay Reservoir

Sampled By: Ijim

Sampling Date: 6 Apr 10 11:00

Test	Result	Units	Drinking Water Guideline
Fluoranthene	<0.1	ug/L	
Fluorene	<0.1	ug/L	
Indeno(1,2,3-c,d)pyrene	<0.1	ug/L	
Naphthalene	<0.1	ug/L	
Phenanthrene	<0.1	ug/L	
Pyrene	0.02	ug/L	
Quinoline	<3.4	ug/L	

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

79675-01

Test	Method	Analyst	Date
Acenaphthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Acenaphthylene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Acridine	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Alkalinity	Titration to 4.5	NiSL	09/04/2010
Anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Aroclor 1016	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1221	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1232	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1242	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1248	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1254	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1260	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1262	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Aroclor 1268	US EPA Method, 8082-Exovat Subcontract	EXL	13/04/2010
Benzo(a)anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(a)pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(b)fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(g,h,i)perylene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Benzo(k)fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Chloride	Ion Chromatography		09/04/2010
Chrysene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Colour - Apparent	Apparent Color	EXL	13/04/2010
Conductivity	Conductivity meter	NiSL	09/04/2010
d-Aluminium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Antimony	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Arsenic	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Barium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Beryllium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Boron	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Cadmium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Calcium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Chromium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Cobalt	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Copper	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Iron	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010

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d-Lead	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Lithium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Magnesium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Manganese	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Molybdenum	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Nickel	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Phosphorus	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Potassium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Selenium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Silicon	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Silver	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Sodium	ICP, APHA 3120B Exova Subcontract	EXL	13/04/2010
d-Strontium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Thallium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Tin	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Titanium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Uranium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Vanadium	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
d-Zinc	ICP-MS, USEPA 200.8 Exova Subcontract	EXL	13/04/2010
Dibenzo(a,h)anthracene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
E. coli (DES)	Colilert 18		06/04/2010
EPH (C10-C19)	Exova Subcontract Exova Subcontract	EXL	13/04/2010
EPH (C19-C32)	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fecal Coliforms (MF)	MF- APHA 9222	Ni&L	06/04/2010
Fluoranthene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fluorene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Fluoride	Ion Chromatography		09/04/2010
Hardness (CaCO ₃)	calc		13/04/2010
Hardness (CaCO ₃)	calculation	EXL	13/04/2010
Indeno(1,2,3-c,d)pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
MRMW, PD30, VOC5W, PHG	Norwest Subcontract		
Naphthalene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Nitrate (N)	Ion Chromatography		09/04/2010
Nitrite (N)	Ion Chromatography		09/04/2010
pH	pH meter		07/04/2010
Phenanthrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Pyrene	Exova Subcontract Exova Subcontract	EXL	13/04/2010
Quinoline	Exova Subcontract Exova Subcontract	EXL	13/04/2010

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Sulphate	Ion Chromatography		09/04/2010
T-Aluminium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Antimony	Trace Metals (Total) in Water	EXL	13/04/2010
T-Arsenic	Trace Metals (Total) in Water	EXL	13/04/2010
T-Barium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Boron	Trace Metals (Total) in Water	EXL	13/04/2010
T-Cadmium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Calcium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Chromium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Copper	Trace Metals (Total) in Water	EXL	13/04/2010
T-Iron	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Lead	Trace Metals (Total) in Water	EXL	13/04/2010
T-Lithium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Magnesium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Manganese	Trace Metals (Total) in Water	EXL	13/04/2010
T-Mercury	Mercury Low Level (Total) in water	EXL	13/04/2010
T-Nickel	Trace Metals (Total) in Water	EXL	13/04/2010
T-Phosphorus	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Potassium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Selenium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Silver	Trace Metals (Total) in Water	EXL	13/04/2010
T-Sodium	Metals SemiTrace (Total) in Water	EXL	13/04/2010
T-Uranium	Trace Metals (Total) in Water	EXL	13/04/2010
T-Zinc	Trace Metals (Total) in Water	EXL	13/04/2010
Total Ammonia (N)	Ammonia-N in Water	EXL	13/04/2010
Total Coliforms (DES)	Colilert 18		06/04/2010
Total Dissolved Solids	Solids Dissolved (Total, Fixed and Volatile) ²	EXL	13/04/2010
Total PCBs	US EPA Method, 8082-Exova Subcontract	EXL	13/04/2010
Turbidity	Nephelometric		06/04/2010

Approved By:

Catherine Black, Owner/Operator

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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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North Island Laboratories

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

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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North Island Laboratories

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

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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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: 87649
Date Reported: 25 May 11
Date Completed: 25 May 11
Date Received: 10 May 11 11:49

87649-01 Well #2

Sampled By: Ron
Sampling Date: 10 May 11 0:00

Test	Result	Units	Drinking Water Guideline
Alkalinity	17	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	2.2	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	40.1	uS	
Iron Bacteria	None Detected	cfu/mL	
Sulphur Bacteria	None Detected	cfu/mL	
Corrosivity	-2.90		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH	6.5	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	40	mg/L	500 AO
Total Organic Carbon	14.6	mg/L	
Total Organic Nitrogen	<0.08	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	

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North Island Laboratories

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

87649-01 Well #2

Sampled By: Ron

Sampling Date: 10 May 11 0:00

Test	Result	Units	Drinking Water Guideline
T-Boron	<0.005	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	3.8	mg/L	
T-Chromium	0.0004	mg/L	0.05 MAC
T-Cobalt	<0.00002	mg/L	
T-Copper	0.003	mg/L	1.0 AO
T-Iron	<0.01	mg/L	0.3 AO
T-Lead	0.0006	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	0.74	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	<0.1	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	5.53	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	2.79	mg/L	200 AO
T-Strontium	0.024	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0001	mg/L	
T-Titanium	0.001	mg/L	
T-Uranium	<0.0004	mg/L	
T-Vanadium	0.0008	mg/L	
T-Zinc	0.002	mg/L	5.0 AO
Hardness (CaCO ₃)	13	mg/L	80-100
Turbidity	1.1	NTU's	5 AO

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North Island Laboratories

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

87649-01

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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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: 87648
Date Reported: 25 May 11
Date Completed: 25 May 11
Date Received: 10 May 11 11:42

87648-01 Well #1

Sampled By: Ron
Sampling Date: 10 May 11 9:30

Test	Result	Units	Drinking Water Guideline
Alkalinity	31	mg/L (CaCO ₃)	
Total Ammonia (N)	<0.05	mg/L	
Chloride	2.3	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	72.1	uS	
Iron Bacteria	None Detected	cfu/mL	
Sulphur Bacteria	None Detected	cfu/mL	
Corrosivity	-1.72		
T-Mercury	<0.00001	mg/L	0.001 MAC
pH	7.1	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	64	mg/L	500 AO
Total Organic Carbon	0.9	mg/L	
Total Organic Nitrogen	<0.08	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	

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North Island Laboratories

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

87648-01 Well #1

Sampled By: Ron

Sampling Date: 10 May 11 9:30

Test	Result	Units	Drinking Water Guideline
T-Boron	<0.005	mg/L	5 MAC
T-Bismuth	<0.001	mg/L	
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	8.3	mg/L	
T-Chromium	0.0005	mg/L	0.05 MAC
T-Cobalt	<0.00002	mg/L	
T-Copper	<0.001	mg/L	1.0 AO
T-Iron	0.015	mg/L	0.3 AO
T-Lead	0.0003	mg/L	0.010 MAC
T-Lithium	<0.001	mg/L	
T-Magnesium	1.97	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	0.2	mg/L	
T-Selenium	<0.0006	mg/L	0.01 MAC
T-Silicon	9	mg/L	
T-Silver	<0.00001	mg/L	
T-Sodium	2.5	mg/L	200 AO
T-Strontium	0.022	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	
T-Vanadium	0.0014	mg/L	
T-Zinc	0.095	mg/L	5.0 AO
Hardness (CaCO ₃)	29	mg/L	80-100
Turbidity	<0.5	NTU's	5 AO

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

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North Island Laboratories

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

87648-01

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

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

> = Greater than; < = Less than

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

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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Certificate of Analysis

Report To: Deep Bay Waterworks Dist.
Leslie
5031 Mountain View Road
Bowser, BC V0R 1G0

Lab Number: 87127
Date Reported: 14 Apr 11
Date Completed: 14 Apr 11
Date Received: 13 Apr 11 15:21

87127-01 Deep Bay Reservoir (not in use)

Sampled By: Don
Sampling Date: 13 Apr 11 14:15

Test	Result	Units	Drinking Water Guideline
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1

87127-02 Deep Bay Reservoir (not in use)

Sampled By: Don
Sampling Date: 13 Apr 11 14:20

Test	Result	Units	Drinking Water Guideline
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1

87127-01

Test	Method	Analyst	Date
E. coli (DES)	Colilert 18	NIsL	13/04/2011
Total Coliforms (DES)	Colilert 18	NIsL	13/04/2011

Approved By: Catherine Black

Catherine Black, Owner/Operator

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