



## Certificate of Analysis

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

Lab Number: 107082  
Date Reported: 27 Nov 13  
Date Completed: 27 Nov 13  
Date Received: 18 Nov 13 13:41

### 107082-01 Reservoir

Sampled By: Don Buchner  
Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	<5	Colour Units	15
pH at 25 C	7.2	pH Units	6.5-8.5
Fluoride	0.05	mg/L	1.5 MAC
Chloride	1.6	mg/L	250 AO
Nitrate (N)	0.05	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.6	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	<0.00005	mg/L	0.010 MAC
T-Barium	0.00076	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.003	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	8.71	mg/L	
T-Chromium	<0.0005	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0496	mg/L	1.0 AO
T-Iron	0.012	mg/L	0.3 AO
T-Lead	0.0007	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	1.95	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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 1 of 15



# North Island Laboratories

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

## 107082-01 Reservoir

Sampled By: Don Buchner  
Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Manganese	0.0014	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.3	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	9.8	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	2.4	mg/L	200 AO
T-Strontium	0.0205	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0016	mg/L	
T-Zinc	0.0163	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	30	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.7	%/cm	
Alkalinity	32	mg/L (CaCO <sub>3</sub> )	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	47	mg/L	500 AO

## 107082-02 Well # 1

Sampled By: Don Buchner  
Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	21	Colour Units	15
pH at 25 C	7.0	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	1.6	mg/L	250 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 2 of 15



# North Island Laboratories

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

## 107082-02 Well # 1

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Nitrate (N)	<0.05	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	<0.5	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	<0.00005	mg/L	0.010 MAC
T-Barium	0.00018	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.002	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	4.63	mg/L	
T-Chromium	0.0005	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0054	mg/L	1.0 AO
T-Iron	0.358	mg/L	0.3 AO
T-Lead	0.0034	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	0.86	mg/L	
T-Manganese	0.0056	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	0.0003	mg/L	
T-Potassium	0.2	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	6.59	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	2.1	mg/L	200 AO
T-Strontium	0.0238	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0014	mg/L	
T-Zinc	0.0159	mg/L	5 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 3 of 15



# North Island Laboratories

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

## 107082-02 Well # 1

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Hardness (CaCO <sub>3</sub> )	15	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	98.4	%/cm	
Alkalinity	20	mg/L (CaCO <sub>3</sub> )	
Turbidity	4.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	28	mg/L	500 AO

## 107082-03 Well # 2

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	11	Colour Units	15
pH at 25 C	7.2	pH Units	6.5-8.5
Fluoride	0.06	mg/L	1.5 MAC
Chloride	1.2	mg/L	250 AO
Nitrate (N)	0.07	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.9	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	<0.00005	mg/L	0.010 MAC
T-Barium	0.00078	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.003	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	9.62	mg/L	
T-Chromium	<0.0005	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0018	mg/L	1.0 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 4 of 15



# North Island Laboratories

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

## 107082-03 Well # 2

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Iron	0.134	mg/L	0.3 AO
T-Lead	0.001	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	2.2	mg/L	
T-Manganese	0.0026	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	0.0007	mg/L	
T-Potassium	0.3	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	11.1	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	2.8	mg/L	200 AO
T-Strontium	0.0267	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0018	mg/L	
T-Zinc	0.0133	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	33	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.3	%/cm	
Alkalinity	32	mg/L (CaCO <sub>3</sub> )	
Turbidity	1.3	NTU's	5 AO
Total Dissolved Solids (conductivity ca	51	mg/L	500 AO

## 107082-04 Well # 3

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	12.4	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 5 of 15



# North Island Laboratories

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

## 107082-04 Well # 3

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Colour - Apparent	<5	Colour Units	15
pH at 25 C	6.9	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	1.0	mg/L	250 AO
Nitrate (N)	0.06	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	1.1	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	<0.00005	mg/L	0.010 MAC
T-Barium	0.0009	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.004	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	9.99	mg/L	
T-Chromium	<0.0005	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0019	mg/L	1.0 AO
T-Iron	0.05	mg/L	0.3 AO
T-Lead	0.0006	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	2.32	mg/L	
T-Manganese	0.0021	mg/L	0.05 AO
T-Molybdenum	<0.00005	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.3	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	11.4	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	4.5	mg/L	200 AO
T-Strontium	0.0286	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 6 of 15



# North Island Laboratories

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

## 107082-04 Well # 3

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Titanium	<0.0005	mg/L	
T-Uranium	<0.00001	mg/L	0.02 MAC
T-Vanadium	0.0014	mg/L	
T-Zinc	0.0075	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	35	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.5	%/cm	
Alkalinity	42	mg/L (CaCO <sub>3</sub> )	
Turbidity	0.6	NTU's	5 AO
Total Dissolved Solids (conductivity ca	53	mg/L	500 AO

## 107082-05 Well # 4

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	<5	Colour Units	15
pH at 25 C	7.5	pH Units	6.5-8.5
Fluoride	0.06	mg/L	1.5 MAC
Chloride	2.4	mg/L	250 AO
Nitrate (N)	0.15	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.9	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	0.00012	mg/L	0.010 MAC
T-Barium	0.00224	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.004	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 7 of 15



# North Island Laboratories

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

## 107082-05 Well # 4

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Calcium	10.7	mg/L	
T-Chromium	0.0009	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0013	mg/L	1.0 AO
T-Iron	0.011	mg/L	0.3 AO
T-Lead	0.0034	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	3.27	mg/L	
T-Manganese	0.001	mg/L	0.05 AO
T-Molybdenum	0.00008	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.4	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	10.4	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	2.8	mg/L	200 AO
T-Strontium	0.025	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	0.00001	mg/L	0.02 MAC
T-Vanadium	0.0026	mg/L	
T-Zinc	0.0052	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	40	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.6	%/cm	
Alkalinity	48	mg/L (CaCO <sub>3</sub> )	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	61	mg/L	500 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 8 of 15





# North Island Laboratories

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

## 107082-06 Well # 5

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	6	Colour Units	15
pH at 25 C	7.4	pH Units	6.5-8.5
Fluoride	0.06	mg/L	1.5 MAC
Chloride	1.4	mg/L	250 AO
Nitrate (N)	0.12	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.6	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	0.00016	mg/L	0.010 MAC
T-Barium	0.0015	mg/L	1.0 MAC
T-Beryllium	<0.00005	mg/L	
T-Bismuth	<0.0001	mg/L	
T-Boron	0.004	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	11.5	mg/L	
T-Chromium	0.0006	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.001	mg/L	1.0 AO
T-Iron	0.021	mg/L	0.3 AO
T-Lead	0.0003	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	3.55	mg/L	
T-Manganese	0.0017	mg/L	0.05 AO
T-Molybdenum	0.00009	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.4	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	10.4	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	2.8	mg/L	200 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 9 of 15



# North Island Laboratories

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

## 107082-06 Well # 5

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Strontium	0.0253	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	<0.0001	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	0.00001	mg/L	0.02 MAC
T-Vanadium	0.0027	mg/L	
T-Zinc	0.0024	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	43	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.6	%/cm	
Alkalinity	52	mg/L (CaCO <sub>3</sub> )	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	67	mg/L	500 AO

## 107082-07 Well # 6

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	<5	Colour Units	15
pH at 25 C	7.6	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	4.3	mg/L	250 AO
Nitrate (N)	0.12	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.9	mg/L	500 AO
T-Aluminium	<0.005	mg/L	0.1 Operational Std.
T-Antimony	<0.0001	mg/L	0.006 MAC
T-Arsenic	0.00013	mg/L	0.010 MAC
T-Barium	0.00214	mg/L	1.0 MAC
T-Beryllium	<0.00005	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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 10 of 15



# North Island Laboratories

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

## 107082-07 Well # 6

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Bismuth	<0.0001	mg/L	
T-Boron	0.004	mg/L	5 IMAC
T-Cadmium	<0.00001	mg/L	0.005 MAC
T-Calcium	12.4	mg/L	
T-Chromium	0.0006	mg/L	0.05 MAC
T-Cobalt	<0.0001	mg/L	
T-Copper	0.0011	mg/L	1.0 AO
T-Iron	0.006	mg/L	0.3 AO
T-Lead	<0.0001	mg/L	0.010 MAC
T-Lithium	<0.0005	mg/L	
T-Magnesium	2.68	mg/L	
T-Manganese	<0.0010	mg/L	0.05 AO
T-Molybdenum	0.00008	mg/L	
T-Nickel	<0.0002	mg/L	
T-Potassium	0.4	mg/L	
T-Selenium	<0.0001	mg/L	0.01 MAC
T-Silicon	10.2	mg/L	
T-Silver	<0.00005	mg/L	
T-Sodium	6.7	mg/L	200 AO
T-Strontium	0.0307	mg/L	
T-Thallium	<0.00001	mg/L	
T-Tin	0.0002	mg/L	
T-Titanium	<0.0005	mg/L	
T-Uranium	0.00001	mg/L	0.02 MAC
T-Vanadium	0.0024	mg/L	
T-Zinc	0.0102	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	42	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.6	%/cm	
Alkalinity	46	mg/L (CaCO <sub>3</sub> )	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	65	mg/L	500 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 11 of 15



# North Island Laboratories

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

## 107082-08 Well # 8

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
Ammonia - N	<0.02	mg/L	
Total Coliforms (DES)	<1.0	MPN/100mL	<1
E. coli (DES)	<1.0	MPN/100mL	<1
Colour - Apparent	<5	Colour Units	15
pH at 25 C	7.5	pH Units	6.5-8.5
Fluoride	<0.05	mg/L	1.5 MAC
Chloride	2.0	mg/L	250 AO
Nitrate (N)	0.14	mg/L	10 MAC
Nitrite (N)	<0.05	mg/L	1 MAC
Sulphate	0.7	mg/L	500 AO
T-Aluminium	<0.010	mg/L	0.1 Operational Std.
T-Antimony	<0.0002	mg/L	0.006 MAC
T-Arsenic	0.00014	mg/L	0.010 MAC
T-Barium	0.00154	mg/L	1.0 MAC
T-Beryllium	<0.00010	mg/L	
T-Bismuth	<0.0002	mg/L	
T-Boron	<0.004	mg/L	5 IMAC
T-Cadmium	<0.00002	mg/L	0.005 MAC
T-Calcium	10.3	mg/L	
T-Chromium	<0.0010	mg/L	0.05 MAC
T-Cobalt	<0.0002	mg/L	
T-Copper	0.0019	mg/L	1.0 AO
T-Iron	0.005	mg/L	0.3 AO
T-Lead	0.0003	mg/L	0.010 MAC
T-Lithium	<0.0010	mg/L	
T-Magnesium	3.07	mg/L	
T-Manganese	<0.0020	mg/L	0.05 AO
T-Molybdenum	<0.00010	mg/L	
T-Nickel	<0.0004	mg/L	
T-Potassium	0.5	mg/L	
T-Selenium	<0.0002	mg/L	0.01 MAC
T-Silicon	10.2	mg/L	
T-Silver	<0.00010	mg/L	
T-Sodium	2.7	mg/L	200 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 12 of 15



# North Island Laboratories

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

## 107082-08 Well # 8

Sampled By: Don Buchner

Sampling Date: 18 Nov 13 0:00

Test	Result	Units	Drinking Water Guideline
T-Strontium	0.0251	mg/L	
T-Thallium	<0.00002	mg/L	
T-Tin	<0.0002	mg/L	
T-Titanium	<0.0010	mg/L	
T-Uranium	<0.00002	mg/L	0.02 MAC
T-Vanadium	0.0028	mg/L	
T-Zinc	0.0034	mg/L	5 AO
Hardness (CaCO <sub>3</sub> )	38	mg/L	
Tannins & Lignins	<0.1	mg/L	0.4 AO
UV Transmittance	99.7	%/cm	
Alkalinity	40	mg/L (CaCO <sub>3</sub> )	
Turbidity	<0.5	NTU's	5 AO
Total Dissolved Solids (conductivity ca	58	mg/L	500 AO

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 13 of 15



# North Island Laboratories

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

## 107082-01

Test	Method	Analyst	Date
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	11/20/2013
Alkalinity	Titration to 4.5, APHA 2320 B -modified	NiSL	11/19/2013
Ammonia - N	Hach 10205, Salicylate -modified	NiSL	11/20/2013
Chloride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/20/2013
Colour - Apparent	Spectrophotometer, APHA 2120 C -modified	NiSL	11/20/2013
E. coli (DES)	Enzyme Substrate, APHA 9223 B -modified	NiSL	11/18/2013
Fluoride	Ion Chromatography, EPA 300.1 -modified	NiSL	11/20/2013
Hardness (CaCO <sub>3</sub> )	Hardness by Calculation, APHA 2340 B -modified	NiSL	11/27/2013
Nitrate (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/20/2013
Nitrite (N)	Ion Chromatography, EPA 300.1 -modified	NiSL	11/20/2013
pH at 25 C	Electrometric, APHA 4500 B -modified	NiSL	11/20/2013
pH at 25 C	Electrometric, APHA 4500 B -modified	NiSL	11/19/2013
Sulphate	Ion Chromatography, EPA 300.1 -modified	NiSL	11/20/2013
T-Aluminium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Antimony	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Arsenic	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Barium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Beryllium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Bismuth	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Boron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Cadmium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Calcium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Chromium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Cobalt	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Copper	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Iron	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Lead	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Lithium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Magnesium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Manganese	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Molybdenum	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Nickel	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Potassium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Selenium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Silicon	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 14 of 15



# North Island Laboratories

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

T-Silver	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Sodium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Strontium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Thallium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Tin	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Titanium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Uranium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Vanadium	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
T-Zinc	Exova Subcontract, ICP-AES,EPA6010C,200.8-modified	EXL	11/22/2013
Tannins & Lignins	Exova Subcontract,Colorimetric,APHA 5550B-modified	EXL	11/21/2013
Total Coliforms (DES)	Enzyme Substrate, APHA 9223 B -modified	NIsL	11/18/2013
Total Dissolved Solids (conducti	Conductivity @25C, APHA 2510 A -modified	NIsL	11/19/2013
Turbidity	Nephelometric, APHA 2130 B -modified	NIsL	11/19/2013
UV Transmittance	APHA 5910 C -modified	NIsL	11/20/2013

Approved By:

Catherine Black, Owner/Operator

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 change. Method uncertainties for specified analyses are available upon request.

11/27/2013 16:23

Page 15 of 15