



# 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: Village of Zeballos  
Box 127  
Zeballos, BC  
V0P 2A0  
Attn.: Holli Bellavie

Lab Number: 99573  
Date Reported: 12 Dec 12  
Date Completed: 12 Dec 12  
Date Received: 3 Dec 12 14:33

### 99573-01 Well # 1

Sampled By: Mike Atchison  
Sampling Date: 3 Dec 12 9:52

| Test                  | Result   | Units        | Drinking Water Guideline |
|-----------------------|----------|--------------|--------------------------|
| Total Coliforms (DES) | <1.0     | MPN/100mL    | <1                       |
| E. coli (DES)         | <1.0     | MPN/100mL    | <1                       |
| Colour - Apparent     | 11       | Colour Units | 15                       |
| UV Transmittance      | 98.7     | %/cm         |                          |
| Fluoride              | <0.05    | mg/L         | 1.5 MAC                  |
| Chloride              | 6.0      | mg/L         | 250 AO                   |
| Nitrate (N)           | 0.77     | mg/L         | 10 MAC                   |
| Nitrite (N)           | <0.05    | mg/L         | 1 MAC                    |
| Sulphate              | 2.3      | mg/L         | 500 AO                   |
| T-Aluminium           | 0.013    | 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              | 0.00499  | mg/L         | 1.0 MAC                  |
| T-Beryllium           | <0.00005 | mg/L         |                          |
| T-Bismuth             | <0.0001  | mg/L         |                          |
| T-Boron               | 0.015    | mg/L         | 5 IMAC                   |
| T-Cadmium             | 0.00002  | mg/L         | 0.005 MAC                |
| T-Calcium             | 7.05     | mg/L         |                          |
| T-Chromium            | <0.0005  | mg/L         | 0.05 MAC                 |
| T-Cobalt              | <0.0001  | mg/L         |                          |
| T-Copper              | 0.0048   | mg/L         | 1.0 AO                   |
| T-Iron                | 1.57     | mg/L         | 0.3 AO                   |
| T-Lead                | 0.004    | mg/L         | 0.010 MAC                |
| T-Lithium             | <0.0005  | mg/L         |                          |
| T-Magnesium           | 1.14     | mg/L         |                          |
| T-Manganese           | 0.0214   | mg/L         | 0.05 AO                  |
| T-Molybdenum          | 0.00006  | mg/L         |                          |

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Page 1 of 4



# North Island Laboratories

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

99573-01 Well # 1

Sampled By: Mike Atchison

Sampling Date: 3 Dec 12 9:52

| Test                                    | Result   | Units                     | Drinking Water Guideline |
|---|----------|---------------------------|--------------------------|
| T-Nickel                                | 0.0004   | mg/L                      |                          |
| T-Potassium                             | 0.6      | mg/L                      |                          |
| T-Selenium                              | <0.0001  | mg/L                      | 0.01 MAC                 |
| T-Silicon                               | 2.51     | mg/L                      |                          |
| T-Silver                                | <0.00005 | mg/L                      |                          |
| T-Sodium                                | 2.2      | mg/L                      | 200 AO                   |
| T-Strontium                             | 0.0181   | mg/L                      |                          |
| T-Thallium                              | <0.00001 | mg/L                      |                          |
| T-Tin                                   | 0.0002   | mg/L                      |                          |
| T-Titanium                              | <0.0005  | mg/L                      |                          |
| T-Uranium                               | 0.00002  | mg/L                      | 0.02 MAC                 |
| T-Vanadium                              | 0.0006   | mg/L                      |                          |
| T-Zinc                                  | 0.0439   | mg/L                      | 5 AO                     |
| Hardness (CaCO <sub>3</sub> )           | 22       | mg/L                      |                          |
| Tannins & Lignins                       | 0.2      | mg/L                      | 0.4 AO                   |
| pH                                      | 6.5      | pH Units                  | 6.5-8.5                  |
| Alkalinity                              | <20      | mg/L (CaCO <sub>3</sub> ) |                          |
| Turbidity                               | 6.0      | NTU's                     | 5 AO                     |
| Total Dissolved Solids (conductivity ca | 40       | mg/L                      | 500 AO                   |

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Page 2 of 4



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## 99573-01

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 2320 B -modified            | NiSL    | 12/5/2012  |
| Chloride                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Colour - Apparent             | Spectrophotometer, APHA 2120 C -modified           | NiSL    | 12/6/2012  |
| E. coli (DES)                 | Enzyme Substrate, APHA 9223 B -modified            | NiSL    | 12/3/2012  |
| Fluoride                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Hardness (CaCO <sub>3</sub> ) | Hardness by Calculation, APHA 2340 B -modified     | NiSL    | 12/12/2012 |
| Nitrate (N)                   | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Nitrite (N)                   | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| pH                            | Electrometric, APHA 4500 B -modified               | NiSL    | 12/4/2012  |
| Sulphate                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| T-Aluminium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Antimony                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Arsenic                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Barium                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Beryllium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Bismuth                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Boron                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Cadmium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Calcium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Chromium                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Cobalt                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Copper                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Iron                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Lead                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Lithium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Magnesium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Manganese                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Molybdenum                  | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Nickel                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Potassium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Selenium                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Silicon                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Silver                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |

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Page 3 of 4



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|                                  |  |      |            |
|----------------------------------|--|------|------------|
| T-Sodium                         | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Strontium                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Thallium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Tin                            | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Titanium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Uranium                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Vanadium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Zinc                           | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| Tannins & Lignins                | Exova Subcontract,Colorimetric,APHA 5550B-modified | EXL  | 12/6/2012  |
| Total Coliforms (DES)            | Enzyme Substrate, APHA 9223 B -modified            | NiSL | 12/3/2012  |
| Total Dissolved Solids (conducti | Conductivity @25C, APHA 2510 A -modified           | NiSL | 12/5/2012  |
| Turbidity                        | Nephelometric, APHA 2130 B -modified               | NiSL | 12/4/2012  |
| UV Transmittance                 | APHA 5910 B -modified                              | NiSL | 12/6/2012  |

Approved By:

Catherine Black, Owner/Operator

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Page 4 of 4



# North Island Laboratories

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

99574-01 Well # 2

Sampled By: Mike Atchison

Sampling Date: 3 Dec 12 9:48

| Test                                    | Result   | Units                     | Drinking Water Guideline |
|---|----------|---------------------------|--------------------------|
| T-Nickel                                | <0.0002  | mg/L                      |                          |
| T-Potassium                             | 0.6      | mg/L                      |                          |
| T-Selenium                              | <0.0001  | mg/L                      | 0.01 MAC                 |
| T-Silicon                               | 2.32     | mg/L                      |                          |
| T-Silver                                | <0.00005 | mg/L                      |                          |
| T-Sodium                                | 2.2      | mg/L                      | 200 AO                   |
| T-Strontium                             | 0.0144   | 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                              | 0.0002   | mg/L                      |                          |
| T-Zinc                                  | 0.0062   | mg/L                      | 5 AO                     |
| Hardness (CaCO <sub>3</sub> )           | 17       | mg/L                      |                          |
| Tannins & Lignins                       | <0.1     | mg/L                      | 0.4 AO                   |
| pH                                      | 6.2      | pH Units                  | 6.5-8.5                  |
| Alkalinity                              | <20      | mg/L (CaCO <sub>3</sub> ) |                          |
| Turbidity                               | 0.7      | NTU's                     | 5 AO                     |
| Total Dissolved Solids (conductivity ca | 33       | mg/L                      | 500 AO                   |

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12/13/2012 14:00

Page 2 of 4



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## Certificate of Analysis

Report To: Village of Zeballos  
Box 127  
Zeballos, BC  
V0P 2A0  
Attn.: Holli Bellavie

Lab Number: 99574  
Date Reported: 13 Dec 12  
Date Completed: 13 Dec 12  
Date Received: 3 Dec 12 14:35

### 99574-01 Well # 2

Sampled By: Mike Atchison  
Sampling Date: 3 Dec 12 9:48

| Test                  | Result   | Units        | Drinking Water Guideline |
|-----------------------|----------|--------------|--------------------------|
| Total Coliforms (DES) | <1.0     | MPN/100mL    | <1                       |
| E. coli (DES)         | <1.0     | MPN/100mL    | <1                       |
| Colour - Apparent     | <5       | Colour Units | 15                       |
| UV Transmittance      | 99.2     | %/cm         |                          |
| Fluoride              | <0.05    | mg/L         | 1.5 MAC                  |
| Chloride              | 3.1      | mg/L         | 250 AO                   |
| Nitrate (N)           | 0.77     | mg/L         | 10 MAC                   |
| Nitrite (N)           | <0.05    | mg/L         | 1 MAC                    |
| Sulphate              | 1.4      | mg/L         | 500 AO                   |
| T-Aluminium           | 0.009    | 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              | 0.00482  | mg/L         | 1.0 MAC                  |
| T-Beryllium           | <0.00005 | mg/L         |                          |
| T-Bismuth             | <0.0001  | mg/L         |                          |
| T-Boron               | 0.01     | mg/L         | 5 IMAC                   |
| T-Cadmium             | <0.00001 | mg/L         | 0.005 MAC                |
| T-Calcium             | 5.14     | mg/L         |                          |
| T-Chromium            | <0.0005  | mg/L         | 0.05 MAC                 |
| T-Cobalt              | <0.0001  | mg/L         |                          |
| T-Copper              | 0.0016   | mg/L         | 1.0 AO                   |
| T-Iron                | 0.073    | mg/L         | 0.3 AO                   |
| T-Lead                | 0.0079   | mg/L         | 0.010 MAC                |
| T-Lithium             | <0.0005  | mg/L         |                          |
| T-Magnesium           | 0.97     | mg/L         |                          |
| T-Manganese           | 0.0028   | mg/L         | 0.05 AO                  |
| T-Molybdenum          | <0.00005 | mg/L         |                          |

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Page 1 of 4



# North Island Laboratories

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

99574-01

| Test                          | Method   | Analyst | Date       |
|-------------------------------|--|---------|------------|
| Alkalinity                    | Titration to 4.5, APHA 2320 B -modified            | NiSL    | 12/5/2012  |
| Chloride                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Colour - Apparent             | Spectrophotometer, APHA 2120 C -modified           | NiSL    | 12/6/2012  |
| E. coli (DES)                 | Enzyme Substrate, APHA 9223 B -modified            | NiSL    | 12/3/2012  |
| Fluoride                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Hardness (CaCO <sub>3</sub> ) | Hardness by Calculation, APHA 2340 B -modified     | NiSL    | 12/12/2012 |
| Nitrate (N)                   | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| Nitrite (N)                   | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| pH                            | Electrometric, APHA 4500 B -modified               | NiSL    | 12/4/2012  |
| Sulphate                      | Ion Chromatography, EPA 300.1 -modified            | NiSL    | 12/5/2012  |
| T-Aluminium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Antimony                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Arsenic                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Barium                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Beryllium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Bismuth                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Boron                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Cadmium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Calcium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Chromium                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Cobalt                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Copper                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Iron                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Lead                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Lithium                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Magnesium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Manganese                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Molybdenum                  | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Nickel                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Potassium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Selenium                    | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Silicon                     | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Silver                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Sodium                      | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |
| T-Strontium                   | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL     | 12/10/2012 |

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Page 3 of 4



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|                                  |  |      |            |
|----------------------------------|--|------|------------|
| T-Thallium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Tin                            | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Titanium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Uranium                        | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Vanadium                       | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| T-Zinc                           | Exova Subcontract, ICP-AES,EPA6010C,200.8-modified | EXL  | 12/10/2012 |
| Tannins & Lignins                | Exova Subcontract,Colorimetric,APHA 5550B-modified | EXL  | 12/6/2012  |
| Total Coliforms (DES)            | Enzyme Substrate, APHA 9223 B -modified            | NiSL | 12/3/2012  |
| Total Dissolved Solids (conducti | Conductivity @25C, APHA 2510 A -modified           | NiSL | 12/5/2012  |
| Turbidity                        | Nephelometric, APHA 2130 B -modified               | NiSL | 12/4/2012  |
| UV Transmittance                 | APHA 5910 B -modified                              | NiSL | 12/6/2012  |

Approved By:

Catherine Black, Owner/Operator

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Page 4 of 4