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AUG 31 2004



**Taiga Environmental Laboratory**

4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788 Fax: (867)-669-2718

D.I.A.N.D.  
Iqaluit, NU

Standards Council of Canada  
Accredited Laboratory  
Scope of Accreditation 187



Conseil canadien des normes  
Laboratoire accrédité  
Portée d'accréditation 187

TM

**- FINAL REPORT -**

**Prepared For:** Nunavut District Office

**Address:** Box 100  
Iqaluit, NU  
X0A 0H0

**Attn:** Scott Stewart

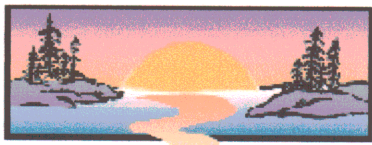
**Facimile:** (867) 979-6445

**Final report has been reviewed and approved by:**

R. Shane Harnish  
Quality Assurance Officer

**NOTES:**

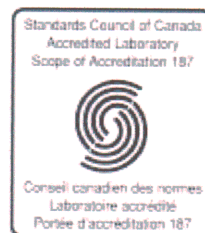
- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Standards Council of Canada (SCC) as a testing laboratory for specific tests registered with the Council.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: ULU Sewage Effluent East Lk.

Taiga Sample ID: 241603

**Client Project:**

**Sample Type:** sewage

**Received Date:** 15-Jul-04

**Sampling Date:** 14-Jul-04

**Location:** ULU Exploration Camp

**Report Status:** FINAL

**Approved By**

R. Shane Harnish

Quality Assurance Officer

| Test Parameter           | Result | Detection Limit | Units    | Analysis Date | Analytical Method * | Qualifier |
|--------------------------|--------|-----------------|----------|---------------|---------------------|-----------|
| <b>Physicals</b>         |        |                 |          |               |                     |           |
| Alkalinity               | 7.0    | 0.3             | mg/L     | 16-Jul-04     | SM2320:B            |           |
| Conductivity, Specific   | 78.9   | 0.3             | µS/cm    | 16-Jul-04     | SM2510:B            |           |
| pH                       | 7.15   | 0.05            | pH units | 16-Jul-04     | SM4500-H:B          |           |
| Solids, Total Suspended  | 4      | 3               | mg/L     | 20-Jul-04     | SM2540:D            |           |
| Turbidity                | 1.09   | 0.05            | NTU      | 19-Jul-04     | SM2130:B            |           |
| <b>Nutrients</b>         |        |                 |          |               |                     |           |
| Ammonia as N             | 0.015  | 0.005           | mg/L     | 22-Jul-04     | SM4500-NH3:G        |           |
| Biological Oxygen Demand | < 2    | 2               | mg/L     | 15-Jul-04     | SM5210:B            |           |
| Nitrate as N             | < 0.01 | 0.01            | mg/L     | 21-Jul-04     | SM4110:B            |           |
| Nitrite as N             | < 0.01 | 0.01            | mg/L     | 21-Jul-04     | SM4110:B            |           |
| Phosphorous, Total       | 0.02   | 0.01            | mg/L     | 16-Jul-04     | SM4500-P:D          |           |
| <b>Major Ions</b>        |        |                 |          |               |                     |           |
| Chloride                 | 5.7    | 0.2             | mg/L     | 21-Jul-04     | SM4110:B            |           |

**Report Date:** Thursday, August 26, 2004

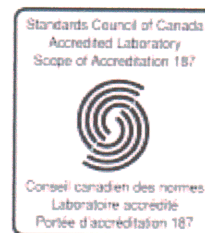
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Taiga Sample ID: 241603

|          |    |   |      |           |          |
|----------|----|---|------|-----------|----------|
| Sulphate | 16 | 1 | mg/L | 21-Jul-04 | SM4110:B |
|----------|----|---|------|-----------|----------|

#### Subcontracted Major Ions

|           |      |      |      |           |          |
|-----------|------|------|------|-----------|----------|
| Calcium   | 5.0  | 0.2  | mg/L | 25-Aug-04 | SM3120:B |
| Magnesium | 1.5  | 0.1  | mg/L | 25-Aug-04 | SM3120:B |
| Potassium | 0.92 | 0.05 | mg/L | 25-Aug-04 | SM3120:B |
| Sodium    | 5.30 | 0.01 | mg/L | 25-Aug-04 | SM3120:B |

#### Microbiology

|                  |    |   |           |           |          |
|------------------|----|---|-----------|-----------|----------|
| Coliforms, Fecal | 12 | 1 | CFU/100mL | 15-Jul-04 | SM9222:D |
|------------------|----|---|-----------|-----------|----------|

#### Metals, Total

|           |       |     |      |           |          |
|-----------|-------|-----|------|-----------|----------|
| Aluminum  | < 30  | 30  | µg/L | 27-Jul-04 | EPA200.8 |
| Antimony  | 0.4   | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Arsenic   | < 1   | 1   | µg/L | 21-Jul-04 | SM3113:B |
| Barium    | 6.0   | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Beryllium | < 0.1 | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Cadmium   | < 0.1 | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Cesium    | < 0.1 | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Chromium  | < 0.3 | 0.3 | µg/L | 27-Jul-04 | EPA200.8 |
| Cobalt    | < 0.1 | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |
| Copper    | 2.8   | 0.3 | µg/L | 27-Jul-04 | EPA200.8 |
| Iron      | < 50  | 50  | µg/L | 19-Jul-04 | SM3111:B |
| Lead      | < 0.1 | 0.1 | µg/L | 27-Jul-04 | EPA200.8 |

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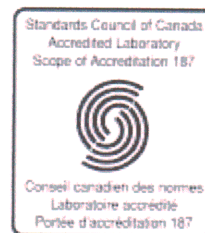
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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **ULU Sewage Effluent East Lk.**

Taiga Sample ID: **241603**

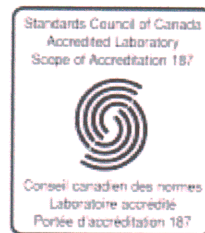
|            |        |      |      |           |          |
|------------|--------|------|------|-----------|----------|
| Lithium    | 0.6    | 0.3  | µg/L | 27-Jul-04 | EPA200.8 |
| Manganese  | 6.3    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Mercury    | < 0.02 | 0.02 | µg/L | 28-Jul-04 | EPA200.8 |
| Molybdenum | < 0.1  | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Nickel     | 1.6    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Rubidium   | 1.1    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Selenium   | < 1    | 1    | µg/L | 27-Jul-04 | EPA200.8 |
| Silver     | < 0.1  | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Strontium  | 9.7    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Thallium   | 0.6    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Titanium   | 0.3    | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Uranium    | < 0.1  | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Vanadium   | < 0.1  | 0.1  | µg/L | 27-Jul-04 | EPA200.8 |
| Zinc       | < 10   | 10   | µg/L | 27-Jul-04 | EPA200.8 |



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: ULU Potable Water West Lk.

Taiga Sample ID: 241604

**Client Project:**

**Sample Type:** drinking water

**Received Date:** 15-Jul-04

**Sampling Date:** 14-Jul-04

**Location:** ULU Exploration Camp

**Approved By**

R. Shang Harnish

Quality Assurance Officer

**Report Status:** FINAL

| Test Parameter          | Result  | Detection Limit | Units    | Analysis Date | Analytical Method * | Qualifer |
|-------------------------|---------|-----------------|----------|---------------|---------------------|----------|
| <b>Physicals</b>        |         |                 |          |               |                     |          |
| Alkalinity              | 6.3     | 0.3             | mg/L     | 16-Jul-04     | SM2320:B            |          |
| Conductivity, Specific  | 121     | 0.3             | µS/cm    | 16-Jul-04     | SM2510:B            |          |
| pH                      | 6.91    | 0.05            | pH units | 16-Jul-04     | SM4500-H:B          |          |
| Solids, Total Suspended | 8       | 3               | mg/L     | 20-Jul-04     | SM2540:D            |          |
| Turbidity               | 1.73    | 0.05            | NTU      | 19-Jul-04     | SM2130:B            |          |
| <b>Nutrients</b>        |         |                 |          |               |                     |          |
| Ammonia as N            | < 0.005 | 0.005           | mg/L     | 22-Jul-04     | SM4500-NH3:G        |          |
| Nitrate as N            | < 0.01  | 0.01            | mg/L     | 21-Jul-04     | SM4110:B            |          |
| Nitrite as N            | < 0.01  | 0.01            | mg/L     | 21-Jul-04     | SM4110:B            |          |
| <b>Major Ions</b>       |         |                 |          |               |                     |          |
| Chloride                | 15.4    | 0.2             | mg/L     | 21-Jul-04     | SM4110:B            |          |
| Sulphate                | 21      | 1               | mg/L     | 21-Jul-04     | SM4110:B            |          |

**Subcontracted Major Ions**

**Report Date:** Thursday, August 26, 2004

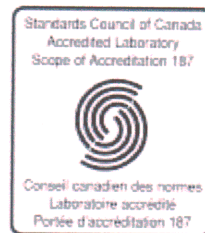
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Client Sample ID: **ULU Potable Water West Lk.**

Taiga Sample ID: **241604**

|                             |        |      |      |           |          |
|-----------------------------|--------|------|------|-----------|----------|
| Calcium                     | 9.1    | 0.2  | mg/L | 25-Aug-04 | SM3120:B |
| Magnesium                   | 3.3    | 0.1  | mg/L | 25-Aug-04 | SM3120:B |
| Potassium                   | 0.86   | 0.05 | mg/L | 25-Aug-04 | SM3120:B |
| Sodium                      | 5.37   | 0.01 | mg/L | 25-Aug-04 | SM3120:B |
| <b><u>Metals, Total</u></b> |        |      |      |           |          |
| Aluminum                    | 38     | 30   | µg/L | 20-Jul-04 | EPA200.8 |
| Antimony                    | 0.5    | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Arsenic                     | < 1    | 1    | µg/L | 21-Jul-04 | SM3113:B |
| Barium                      | 11.6   | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Beryllium                   | < 0.1  | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Cadmium                     | < 0.1  | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Cesium                      | < 0.1  | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Chromium                    | < 0.3  | 0.3  | µg/L | 20-Jul-04 | EPA200.8 |
| Cobalt                      | 0.3    | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Copper                      | 3.4    | 0.3  | µg/L | 20-Jul-04 | EPA200.8 |
| Iron                        | 65     | 50   | µg/L | 19-Jul-04 | SM3111:B |
| Lead                        | < 0.1  | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Lithium                     | 1.5    | 0.3  | µg/L | 20-Jul-04 | EPA200.8 |
| Manganese                   | 12.5   | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |
| Mercury                     | < 0.02 | 0.02 | µg/L | 28-Jul-04 | EPA200.8 |
| Molybdenum                  | < 0.1  | 0.1  | µg/L | 20-Jul-04 | EPA200.8 |

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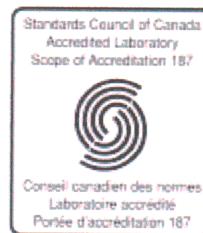
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Taiga Sample ID: 241604

|           |       |     |      |           |          |
|-----------|-------|-----|------|-----------|----------|
| Nickel    | 2.3   | 0.1 | µg/L | 28-Jul-04 | EPA200.8 |
| Rubidium  | 1.3   | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Selenium  | < 1   | 1   | µg/L | 20-Jul-04 | EPA200.8 |
| Silver    | < 0.1 | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Strontium | 45.8  | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Thallium  | 0.2   | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Titanium  | 1.3   | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Uranium   | < 0.1 | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Vanadium  | < 0.1 | 0.1 | µg/L | 20-Jul-04 | EPA200.8 |
| Zinc      | < 10  | 10  | µg/L | 20-Jul-04 | EPA200.8 |