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

D.I.A.N.D.
Iqaluit, NU
Tel: (867)-669-2788
Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Nipissar LK. RAN-1

Taiga Sample ID: 232677

Client Project:

Sample Type: sewage

Received Date: 15-Aug-03

Location: Rankin Inlet

Sampling Date: 12-Aug-03

Report Status: Final

Approved by: Helene Harper

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Conductivity, Specific (25 C)	252	µS/cm	0.3	19-Aug-03
pH	7.48	pH units	0.05	19-Aug-03
Solids, Total Suspended	10	mg/L	3	20-Aug-03
<u>Nutrients</u>				
Ammonia as N	1.23	mg/L	0.005	28-Aug-03
Nitrate+Nitrite as N	< 0.008	mg/L	0.008	27-Aug-03
Organic Carbon, Total	5.7	mg/L	0.2	10-Sep-03
<u>Major Ions</u>				
Calcium	17.1	mg/L	0.05	19-Aug-03
Magnesium	3.80	mg/L	0.02	19-Aug-03
Potassium	1.94	mg/L	0.03	20-Aug-03
Sodium	17.7	mg/L	0.02	20-Aug-03
Sulphate	3	mg/L	3	21-Aug-03



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Sample ID: Nipissar LK. RAN-1

Taiga Sample ID: 232677

Metals, Total

Aluminum	< 30	µg/L	30	18-Oct-03
Antimony	0.9	µg/L	0.1	18-Oct-03
Arsenic	< 1	µg/L	1	18-Aug-03
Barium	29.5	µg/L	0.1	18-Oct-03
Beryllium	< 0.1	µg/L	0.1	18-Oct-03
Cadmium	0.2	µg/L	0.1	18-Oct-03
Cesium	< 0.1	µg/L	0.1	18-Oct-03
Chromium	3.1	µg/L	0.3	18-Oct-03
Cobalt	4.0	µg/L	0.1	18-Oct-03
Copper	234	µg/L	0.2	18-Oct-03
Iron	2804	µg/L	30	18-Aug-03
Lead	242	µg/L	0.1	18-Oct-03
Lithium	2.0	µg/L	0.3	18-Oct-03
Manganese	101	µg/L	0.1	18-Oct-03
Mercury	< 0.01	µg/L	0.01	25-Aug-03
Molybdenum	1.6	µg/L	0.1	18-Oct-03
Nickel	13.5	µg/L	0.1	18-Oct-03
Rubidium	1.7	µg/L	0.1	18-Oct-03
Selenium	< 1	µg/L	1	18-Oct-03
Silver	0.1	µg/L	0.1	18-Oct-03



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Attn: Scott Stewart

Sample ID: Nipissar LK. RAN-1

Taiga Sample ID: 232677

Strontium	96.5	µg/L	0.1	18-Oct-03
Thallium	<0.1	µg/L	0.1	18-Oct-03
Titanium	0.2	µg/L	0.1	18-Oct-03
Uranium	0.2	µg/L	0.1	18-Oct-03
Vanadium	0.2	µg/L	0.1	18-Oct-03
Zinc	895	µg/L	10	18-Oct-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Effluent RAN-3

Taiga Sample ID: 232678

Client Project:

Sample Type: sewage

Received Date: 15-Aug-03

Location: Rankin Inlet

Sampling Date: 12-Aug-03

Report Status: Final

Approved by:

Hélène Harper

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Conductivity, Specific	531	µS/cm	0.3	19-Aug-03
pH	7.22	pH units	0.05	19-Aug-03
Solids, Total Suspended	94	mg/L	3	20-Aug-03
<u>Nutrients</u>				
Ammonia as N	8.03	mg/L	0.005	28-Aug-03
Chemical Oxygen Demand	160	mg/L	1	26-Aug-03
Nitrate+Nitrite as N	< 0.008	mg/L	0.008	27-Aug-03
Organic Carbon, Total	31.8	mg/L	0.2	10-Sep-03
<u>Major Ions</u>				
Calcium	27.4	mg/L	0.05	19-Aug-03
Magnesium	0.54	mg/L	0.02	19-Aug-03
Potassium	6.70	mg/L	0.03	20-Aug-03
Sodium	45.2	mg/L	0.02	20-Aug-03
Sulphate	27	mg/L	3	21-Aug-03



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Sample ID: Effluent RAN-3

Taiga Sample ID: 232678

Metals, Total

Aluminum	2140	µg/L	30	18-Nov-03
Antimony	1.4	µg/L	0.1	20-Sep-03
Arsenic	1	µg/L	1	18-Aug-03
Barium	21.8	µg/L	0.1	20-Sep-03
Beryllium	<0.1	µg/L	0.1	20-Sep-03
Cadmium	0.4	µg/L	0.1	20-Sep-03
Cesium	<0.1	µg/L	0.1	20-Sep-03
Chromium	4.2	µg/L	0.3	20-Sep-03
Cobalt	0.5	µg/L	0.1	20-Sep-03
Copper	110	µg/L	0.2	20-Sep-03
Iron	552	µg/L	30	25-Aug-03
Lead	3.5	µg/L	0.1	20-Sep-03
Lithium	3.0	µg/L	0.3	20-Sep-03
Manganese	113	µg/L	0.1	20-Sep-03
Mercury	<0.01	µg/L	0.01	25-Aug-03
Molybdenum	1.0	µg/L	0.1	20-Sep-03
Nickel	10.3	µg/L	0.1	20-Sep-03
Rubidium	7.2	µg/L	0.1	20-Sep-03
Selenium	1	µg/L	1	20-Sep-03
Silver	<0.1	µg/L	0.1	20-Sep-03



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Strontium	133	µg/L	0.1	18-Nov-03
Thallium	< 0.1	µg/L	0.1	20-Sep-03
Titanium	5.6	µg/L	0.1	20-Sep-03
Uranium	0.4	µg/L	0.1	20-Sep-03
Vanadium	< 0.1	µg/L	0.1	20-Sep-03
Zinc	144	µg/L	10	20-Sep-03

Subcontracted Organics

Phenols	8.4	µg/L	0.5	21-Aug-03
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