



February 28th, 2006

Chief Administrative Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

RE: Water License NWB1JER0410 Monthly SNP Report – January 2006

General

During the month of January 2006, JER-SW1 was collected as part of the Surveillance Network Program associated with Water License NWB1JER0410. Water sampling results and field measurements are included in Table 1.

Results

A) Water Sampling and Analysis Results

1. Table 1 provides the results for samples related to the SNP sampling requirements for the month of January 2006.

B) Flow and Volume Measurements

1. Table 2 provides a breakdown of flow and volume measurements and solid material moved as required under Part K, Item 12 and 13 of the water license.

Regards,

Cheryl Wray
Environmental Supervisor

Harold Gates
Mine Manager

Cc: George Taptuna, DIAND Land Use Inspector

Table 1. Water Quality Results - January 2006**Sample Location - JER-SW1**

Sample Type		Lab Duplicate	Grab Water
Collect Date/Time		1/11/2006	1/11/2006
Water Temperature	Deg C		22.15
Field pH	pH		7.46
Field Conductivity	us/cm		1079
Oxidation Reduction Potential	mV		-119.30
Biochemical Oxygen Demand	mg/L		126
MF - Fecal Coliforms	CFU/100mL		50000000
Turbidity	NTU	110	110
Total Suspended Solids @105°C	mg/L	110	109
T-Hardness as CaCO ₃	mg/L	31.7	31.6
T-Dissolved Solids 180°C	mg/L	412	408
T-Alkalinity as CaCO ₃	mg/L	366	363
Sulphate	mg/L	55.7	56
Phosphate - Ortho - Phosphoru	mg/L	8.97	8.96
pH @ 25°C	pH	7.48	7.43
Nitrite - Nitrogen	mg/L	<0.05	<0.05
Nitrate - Nitrogen	mg/L	<0.05	<0.05
Hydroxide (as CaCO ₃)	mg/L	<1	<1
Fluoride	mg/L	0.07	0.07
Conductivity @ 25°C	us/cm	1040	1000
Chloride	mg/L	39.8	39.7
Carbonate	mg/L	<1	<1
Bicarbonate	mg/L	446	443
Balance (+ions/-ions)	Ratio	0.55	0.54
Acidity as CaCO ₃	mg/L		-283
Carbon (Total Organic)	mg/L	107	107
Ammonia - Nitrogen	mg/L	69.2	66.7
Carbon (Total Inorganic)	mg/L	86	85
Total Iron	mg/L	1.19	1.19
Total Manganese	mg/L	0.04	0.04
Total Zinc	mg/L	0.279	0.280
Total Vanadium	mg/L	0.0041	0.0040
Total Uranium	mg/L	0.00020	0.00020
Total Thallium	mg/L	<0.00005	<0.00005
Total Strontium	mg/L	0.0256	0.0256
Total Sodium	mg/L	100	98.1
Total Silver	mg/L	<0.0002	<0.0002
Total Silicon	mg/L	4.43	4.44
Total Selenium	mg/L	0.0018	0.0019
Total Potassium	mg/L	22.8	22.3
Total Phosphorus	mg/L	10	10
Total Nickel	mg/L	0.0111	0.0107
Total Molybdenum	mg/L	0.0022	0.0024
Total Mercury	mg/L	0.00017	0.00017
Total Magnesium	mg/L	3.53	3.54
Total Lead	mg/L	0.0049	0.0049
Total Copper	mg/L	0.244	0.244
Total Cobalt	mg/L	0.0007	0.0007
Total Chromium	mg/L	0.0113	0.0102

Table 1. Water Quality Results - January 2006**Sample Location - JER-SW1**

Sample Type		Lab Duplicate	Grab Water
Total Calcium	mg/L	9.86	9.89
Total Cadmium	mg/L	0.0003	0.0003
Total Boron	mg/L	0.028	0.029
Total Beryllium	mg/L	<0.0005	<0.0005
Total Barium	mg/L	0.020	0.020
Total Arsenic	mg/L	0.0013	0.0015
Total Antimony	mg/L	0.0037	0.0037
Total Aluminum	mg/L	0.383	0.362
Dissolved Calcium	mg/L	7.4	7.4
Dissolved Magnesium	mg/L	3.2	3.2
Dissolved Potassium	mg/L	20.1	19.8
Dissolved Sodium	mg/L	94.2	92
Total Phosphorus	mg/L	12.9	13
Dissolved Zinc	mg/L	0.014	0.014
Dissolved Vanadium	mg/L	0.0042	0.0042
Dissolved Uranium	mg/L	<0.00005	<0.00005
Dissolved Thallium	mg/L	<0.00002	<0.00002
Dissolved Strontium	mg/L	0.0239	0.0233
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Silicon	mg/L	3.31	3.30
Dissolved Selenium	mg/L	0.0005	0.0006
Dissolved Phosphorus	mg/L	8.49	8.29
Dissolved Nickel	mg/L	0.0039	0.0036
Dissolved Molybdenum	mg/L	<0.0003	<0.0003
Dissolved Mercury	mg/L	0.00015	0.00015
Dissolved Manganese	mg/L	<0.010	<0.010
Dissolved Lead	mg/L	0.00043	0.00041
Dissolved Iron	mg/L	0.33	0.33
Dissolved Copper	mg/L	0.0170	0.0159
Dissolved Cobalt	mg/L	0.00016	0.00015
Dissolved Chromium	mg/L	0.0078	0.0072
Dissolved Cadmium	mg/L	<0.00005	<0.00005
Dissolved Boron	mg/L	0.027	0.026
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	0.018	0.017
Dissolved Arsenic	mg/L	0.0009	0.0009
Dissolved Antimony	mg/L	0.0004	0.0004
Dissolved Aluminum	mg/L	0.032	0.029

Table 2. Flow Measurements - January 2006

DATE	Carat Lake Freshwater Use (m3) (Camp, Batch Plant, Emulsion Plant, and Carat Lake Ice Road) - Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) - Daily	Sewage Sludge Removed (m3)	Pit Pond Water to East Sump (m3) - Daily	Other waters from East Sump (m3) * - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	PKC Water Recycled (m3)	Process Plant Fresh Water (m3)	Process Plant Water Discharged to PKC (m3)	Coarse Rejects (tonnes)	Fine Rejects to PKC (tonnes)	Ore Processed (tonnes)	Quantity of Waste Rock (tonnes)	Quantity of Esker (tonnes)	Quantity of till (tonnes)
1-Jan	18.3	3.7	Monthly	0	0	0	Monthly	Monthly	0.0	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Jan	12.0	5.0		0	0	0			0.0							
3-Jan	12.0	5.2		0	0	0			0.0							
4-Jan	18.0	11.4		0	0	0			0.0							
5-Jan	58.5	14.2		0	0	0			0.0							
6-Jan	18.0	2.9		0	0	0			0.0							
7-Jan	18.9	33.0		0	0	0			0.0							
8-Jan	34.9	29.0		0	0	0			0.0							
9-Jan	38.3	1.0		0	0	0			0.0							
10-Jan	45.0	111.0		0	0	0			0.0							
11-Jan	31.5	2.0		0	0	0			0.0							
12-Jan	18.3	18.2		0	0	0			0.0							
13-Jan	18.0	17.5		0	0	0			0.0							
14-Jan	64.6	17.4		0	0	0			0.0							
15-Jan	51.8	20.3		0	0	0			0.0							
16-Jan	45.0	12.0		0	0	0			0.0							
17-Jan	18.0	27.0		0	0	0			0.0							
18-Jan	30.8	20.0		0	0	0			0.0							
19-Jan	28.4	14.9		0	0	0			0.0							
20-Jan	52.1	22.1		0	0	0			0.0							
21-Jan	24.4	5.8		0	0	0			0.0							
22-Jan	34.5	20.9		0	0	0			0.0							
23-Jan	21.6	11.5		0	0	0			0.0							
24-Jan	42.0	14.2		0	0	0			128.5							
25-Jan	26.0	19.3		0	0	0			127.6							
26-Jan	34.8	24.5		0	0	0			230.3							
27-Jan	26.0	24.3		0	0	0			160.1							
28-Jan	23.0	3.9		0	0	0			145.2							
29-Jan	22.0	12.9		0	0	0			480.0							
30-Jan	22.4	4.7		0	0	0			77.0							
31-Jan	32.3	5.0		0	0	0			627.5							
Total	941.3	534.8	20.3	0	0	0	0.0	0.0	1976.2	1976.2	626.0	749.5	1375.8	2205	313	0