

11 February 2008

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

RE: Water License NWB1JER0410 Monthly SNP Report – January 2008

Following is the monthly report for January 2008 as required under Water Licence 2AM-JER0410.

SNP Sampling

During the month of January 2008 samples were collected as required for the SNP sampling program. A summary of the sampling is provided in Table 1.

Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab#	Comment
JER-SW1	07 Jan 2008	L591815 280006	Field measurements not collected
JER-SW3	05 Jan 2008	L591815	Field measurements not collected
JER-SW4	27 Jan 2008	L597645	

All samples were collected as per requirements under Water License NWB1JER0410. Sample locations not listed in Table 1 were not required to be sampled during the month of January.

Results

A) Water Sampling and Analysis Results

1. Table 2 provides the results for samples related to the SNP sampling requirements for the month of January 2008.

B) Flow and Volume Measurements

1. Table 3 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.

Should you have any questions regarding the monthly report for January 2008 please contact the undersigned at 780 644-9129 or environment@tahera.com.

Regards,

Laura Smithies
Manager, Environment

Roland Jones
General Mine Manager

TABLE 2 - January 2008

Project	JERICO	JERICO	JERICO
Report To			
ALS File No.	L591815	L591815	L597645
Date Received	07-Jan-08	07-Jan-08	29-Jan-08
Date	16-Jan-08	16-Jan-08	08-Feb-08

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3	JER-SW4
Date Sampled		07-JAN-08	05-JAN-08	27-JAN-08
Time Sampled		08:00	10:00	13:15
ALS Sample ID		L591815-1	L591815-2	L597645-1
Matrix	Units	Water	Water	Water
Physical Tests				
Hardness (as CaCO ₃)	mg/L	-	71.4	137
Conductivity	uS/cm	-	434	511
pH		7.67	8.42	7.61
Total Dissolved Solids	mg/L	-	260	318
Total Suspended Solids	mg/L	60	3170	<3.0
Turbidity	NTU	-	1980	0.45
Anions and Nutrients				
Ammonia as N	mg N/L	57.6	13.3	1.11
Acidity (as CaCO ₃)	mg/L	-	<1.0	1.9
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	-	40.9	58
Alkalinity, Carbonate (as CaCO ₃)	mg/L	-	8.8	<1.0
Alkalinity, Hydroxide (as CaCO ₃)	mg/L	-	<1.0	<1.0
Alkalinity, Total (as CaCO ₃)	mg/L	-	49.7	58
Chloride (Cl)	mg/L	-	34.2	23.7
Sulfate (SO ₄)	mg/L	-	9.43	39.4
Nitrate (as N)	mg N/L	0.0115	24.3	27.7
Nitrite (as N)	mg N/L	<0.0010	0.4	0.177
Total Kjeldahl Nitrogen	mg N/L	-	13.6	1.24
Ortho Phosphate as P	mg P/L	0.0642	0.0011	<0.0010
Total Dissolved Phosphate As P	mg P/L	-	0.0034	0.0033
Total Phosphate as P	mg P/L	7.82	0.923	0.0058
Total Metals				
Aluminum (Al)-Total	mg/L	-	0.0273	0.0353
Antimony (Sb)-Total	mg/L	-	0.00068	0.00054
Arsenic (As)-Total	mg/L	-	0.00019	0.00066
Barium (Ba)-Total	mg/L	-	0.288	0.135
Beryllium (Be)-Total	mg/L	-	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L	-	<0.00050	<0.00050
Boron (B)-Total	mg/L	-	0.033	0.054
Cadmium (Cd)-Total	mg/L	-	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	-	16.9	33.6
Chromium (Cr)-Total	mg/L	-	0.00336	0.00129
Cobalt (Co)-Total	mg/L	-	0.00049	0.00043
Copper (Cu)-Total	mg/L	-	0.00074	0.00134
Iron (Fe)-Total	mg/L	-	0.187	0.109
Lead (Pb)-Total	mg/L	-	0.000063	0.000077
Lithium (Li)-Total	mg/L	-	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L	-	7.6	14.5
Manganese (Mn)-Total	mg/L	-	0.00349	0.0158
Mercury (Hg)-Total	mg/L	-	<0.000050	<0.0010
Molybdenum (Mo)-Total	mg/L	-	0.0051	0.00792
Nickel (Ni)-Total	mg/L	-	0.0155	0.0104
Potassium (K)-Total	mg/L	-	17.7	16.2
Selenium (Se)-Total	mg/L	-	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	-	3.05	4.29
Silver (Ag)-Total	mg/L	-	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	-	20.8	24.8
Strontium (Sr)-Total	mg/L	-	0.852	0.799
Thallium (Tl)-Total	mg/L	-	0.00019	<0.00010
Tin (Sn)-Total	mg/L	-	<0.00010	0.00076
Titanium (Ti)-Total	mg/L	-	<0.010	<0.010
Uranium (U)-Total	mg/L	-	0.000081	0.00159
Vanadium (V)-Total	mg/L	-	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	-	<0.0010	0.0012

TABLE 2 - January 2008

Project	JERICO	JERICO	JERICO
Report To			
ALS File No.	L591815	L591815	L597645
Date Received	07-Jan-08	07-Jan-08	29-Jan-08
Date	16-Jan-08	16-Jan-08	08-Feb-08

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3	JER-SW4
Date Sampled		07-JAN-08	05-JAN-08	27-JAN-08
Time Sampled		08:00	10:00	13:15
ALS Sample ID		L591815-1	L591815-2	L597645-1
Matrix	Units	Water	Water	Water
Dissolved Metals				
Aluminum (Al)-Dissolved	mg/L	-	<0.0010	<0.0010
Antimony (Sb)-Dissolved	mg/L	-	0.00071	0.00056
Arsenic (As)-Dissolved	mg/L	-	0.00019	0.00049
Barium (Ba)-Dissolved	mg/L	-	0.287	0.126
Beryllium (Be)-Dissolved	mg/L	-	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L	-	<0.00050	<0.00050
Boron (B)-Dissolved	mg/L	-	0.034	0.054
Cadmium (Cd)-Dissolved	mg/L	-	<0.000050	<0.000050
Calcium (Ca)-Dissolved	mg/L	-	16.7	32.4
Chromium (Cr)-Dissolved	mg/L	-	<0.00050	<0.00050
Cobalt (Co)-Dissolved	mg/L	-	<0.00010	0.00021
Copper (Cu)-Dissolved	mg/L	-	<0.00030	0.00106
Iron (Fe)-Dissolved	mg/L	-	<0.030	<0.030
Lead (Pb)-Dissolved	mg/L	-	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L	-	<0.0050	<0.0050
Magnesium (Mg)-Dissolved	mg/L	-	7.2	13.7
Manganese (Mn)-Dissolved	mg/L	-	0.00041	0.00849
Mercury (Hg)-Dissolved	mg/L	-	<0.000050	<0.0010
Molybdenum (Mo)-Dissolved	mg/L	-	0.0054	0.00751
Nickel (Ni)-Dissolved	mg/L	-	0.00654	0.00644
Potassium (K)-Dissolved	mg/L	-	17.6	15.5
Selenium (Se)-Dissolved	mg/L	-	<0.0010	<0.0010
Silicon (Si)-Dissolved	mg/L	-	2.76	4.16
Silver (Ag)-Dissolved	mg/L	-	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L	-	20.9	23.7
Strontium (Sr)-Dissolved	mg/L	-	0.853	0.762
Thallium (Tl)-Dissolved	mg/L	-	0.0002	<0.00010
Tin (Sn)-Dissolved	mg/L	-	<0.00010	0.00069
Titanium (Ti)-Dissolved	mg/L	-	<0.010	<0.010
Uranium (U)-Dissolved	mg/L	-	0.000014	0.00149
Vanadium (V)-Dissolved	mg/L	-	<0.0010	<0.0010
Zinc (Zn)-Dissolved	mg/L	-	<0.0010	<0.0010
Aggregate Organics				
Oil and Grease	mg/L	1.7	-	-
Organic Parameters				
Total Inorganic Carbon	mg/L	-	45.7	11.3
Total Organic Carbon	mg/L	-	1.25	2.92
Taiga Labs				
Taiga File No.		280006		
Date Received		7-Jan-08		
Date		7-Jan-08		
Matrix		Water		
Biochemical Oxygen Demand	mg/L	60		
Fecal Coleform	CFU/100 mL	260000		
Field Measurements				
Field Water Temperature	deg C			1.68
Field Conductivity	uS/cm			525
Field DO	%			54.8
Field DO	mg/L			7.64
Field pH				4.89
Field ORP	mV			-23.3

Table 3: Flow and Volume Measurements-Part K Item 12 and 13

DATE	Carat Lake Freshwater Use (m3) (Camp and Emulsion Plant) - Daily	Carat Lake Freshwater Use (m3) (Construction Requirements) - Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) - Daily Calculated	Sewage Sludge Removed (m3)	Pit Pond Water to Long Lake (m3) - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	Water Discharged from PKC (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	29.6		20.7	Monthly			Monthly		Monthly	1206.1	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Jan	29.0		20.3							1125.0							
3-Jan	30.4		21.3							1060.2							
4-Jan	29.5	8.0	20.7							990.4							
5-Jan	22.9		16.0							1158.4							
6-Jan	27.0		18.9							1011.0							
7-Jan	25.3		17.7							1112.0							
8-Jan	17.1		12.0							1150.6							
9-Jan	24.8		17.4							936.4							
10-Jan	29.0		20.3							884.0							
11-Jan	17.5		12.3							680.6							
12-Jan	23.6		16.5							1162.2							
13-Jan	21.2		14.8							1116.1							
14-Jan	22.8		16.0							1118.7							
15-Jan	26.5		18.6							1243.4							
16-Jan	24.1		16.9							1242.5							
17-Jan	33.2		23.2							878.0							
18-Jan	24.1		16.9							1012.3							
19-Jan	23.9		16.7							1036.9							
20-Jan	24.1		16.9							1140.0							
21-Jan	25.8		18.1							1079.1							
22-Jan	25.1		17.6							1025.8							
23-Jan	24.4		17.1							1027.0							
24-Jan	24.1		16.9							1086.9							
25-Jan	17.6		12.3							1162.9							
26-Jan	23.5		16.5							1040.2							
27-Jan	20.1		14.1							1167.9							
28-Jan	33.7		23.6							1116.3							
29-Jan	21.3		14.9							1104.5							
30-Jan	24.3		17.0							1042.7							
31-Jan	25.1		17.6							1024.5							
Total	770.6	8.0	539.4	23	0.0	0.0	3142.9	0.0	0.0	33142.5	28075	42588	12865	56191	311658	0.0	0.0