

19 November 2007

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

RE: Water License NWB1JER0410 Monthly SNP Report – October 2007

Following is the monthly report for October 2007 as required under Water Licence 2AM-JER0410.

SNP Sampling

During the month of October 2007 samples were collected as required for the SNP sampling program. A summary of the October 2007 sampling is provided in Table 1.

Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab#	Comment
JER-SW1	15 Oct 07	L566140 270792	ALS Taiga
JER-SW3	15 Oct 07	L566140 270792	ALS Taiga

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 October 2007.

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 October 2007 please contact the undersigned at 780 644-9129 or environment@tahera.com.

Regards,

Original Signed By:

Laura Smithies
Manager, Environment

Original Signed By: Anthony Loschiavo for

Roland Jones
General Mine Manager

TABLE 2 - September 2007

Project	JERICO	JERICO
Report To		
ALS File No.	L566140	L566140
Date Received	15-Oct-07	15-Oct-07
Date	16-Nov-07	16-Nov-07

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3
Date Sampled		15-OCT-07	15-OCT-07
Time Sampled		09:00	08:30
ALS Sample ID		L566140-1	L566140-2
Matrix	Units	Water	Water

Physical Tests

Hardness (as CaCO ₃)	mg/L	32.4	33.9
Conductivity	uS/cm	884	219
pH		7.76	8.16
Total Dissolved Solids	mg/L	318	125
Total Suspended Solids	mg/L	37.6	<3.0
Turbidity	NTU	29.2	1.38

Anions and Nutrients

Ammonia as N	mg N/L	74.4	2.59
Acidity (as CaCO ₃)	mg/L	24	1.5
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	322	36.4
Alkalinity, Carbonate (as CaCO ₃)	mg/L	<1.0	<1.0
Alkalinity, Hydroxide (as CaCO ₃)	mg/L	<1.0	<1.0
Alkalinity, Total (as CaCO ₃)	mg/L	322	36.4
Chloride (Cl)	mg/L	36.4	9.36
Sulfate (SO ₄)	mg/L	35	16.2
Nitrate (as N)	mg N/L	<0.0050	8.04
Nitrite (as N)	mg N/L	<0.0010	0.529
Total Kjeldahl Nitrogen	mg N/L	82.5	2.39
Ortho Phosphate as P	mg P/L	9.29	<0.0010
Total Dissolved Phosphate As P	mg P/L	8.11	0.0021
Total Phosphate as P	mg P/L	9.5	0.0054

Total Metals

Aluminum (Al)-Total	mg/L	0.0992	0.0222
Antimony (Sb)-Total	mg/L	0.00085	0.00094
Arsenic (As)-Total	mg/L	0.00057	0.00029
Barium (Ba)-Total	mg/L	0.013	0.138
Beryllium (Be)-Total	mg/L	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L	<0.00050	<0.00050
Boron (B)-Total	mg/L	0.047	0.047
Cadmium (Cd)-Total	mg/L	0.000115	<0.000050
Calcium (Ca)-Total	mg/L	9.25	8.26
Chromium (Cr)-Total	mg/L	0.00189	0.00064
Cobalt (Co)-Total	mg/L	0.00032	0.00015
Copper (Cu)-Total	mg/L	0.0608	0.00023
Iron (Fe)-Total	mg/L	0.578	0.06
Lead (Pb)-Total	mg/L	0.0009	<0.000050
Lithium (Li)-Total	mg/L	0.0271	<0.0050

Project	JERICO	JERICO
Report To		
ALS File No.	L566140	L566140
Date Received	15-Oct-07	15-Oct-07
Date	16-Nov-07	16-Nov-07

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3
Date Sampled		15-OCT-07	15-OCT-07
Time Sampled		09:00	08:30
ALS Sample ID		L566140-1	L566140-2
Matrix	Units	Water	Water
Magnesium (Mg)-Total	mg/L	3.32	2.93
Manganese (Mn)-Total	mg/L	0.0301	0.00122
Mercury (Hg)-Total	mg/L	<0.000050	<0.000050
Molybdenum (Mo)-Total	mg/L	0.00135	0.0123
Nickel (Ni)-Total	mg/L	0.00645	0.00366
Potassium (K)-Total	mg/L	17.9	12.2
Selenium (Se)-Total	mg/L	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	3.63	3.47
Silver (Ag)-Total	mg/L	0.00003	<0.000010
Sodium (Na)-Total	mg/L	78.3	18.3
Strontium (Sr)-Total	mg/L	0.0195	0.362
Thallium (Tl)-Total	mg/L	<0.00010	0.00011
Tin (Sn)-Total	mg/L	0.00356	<0.00010
Titanium (Ti)-Total	mg/L	<0.010	<0.010
Uranium (U)-Total	mg/L	0.000133	0.000039
Vanadium (V)-Total	mg/L	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.047	<0.0010

Dissolved Metals

Aluminum (Al)-Dissolved	mg/L	0.0296	<0.0020
Antimony (Sb)-Dissolved	mg/L	0.00052	0.00096
Arsenic (As)-Dissolved	mg/L	0.00055	0.00025
Barium (Ba)-Dissolved	mg/L	0.00981	0.136
Beryllium (Be)-Dissolved	mg/L	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L	<0.00050	<0.00050
Boron (B)-Dissolved	mg/L	0.043	0.047
Cadmium (Cd)-Dissolved	mg/L	<0.000050	<0.000050
Calcium (Ca)-Dissolved	mg/L	8.23	8.99
Chromium (Cr)-Dissolved	mg/L	0.00131	<0.00050
Cobalt (Co)-Dissolved	mg/L	0.00014	<0.00010
Copper (Cu)-Dissolved	mg/L	0.024	<0.00020
Iron (Fe)-Dissolved	mg/L	0.344	<0.030
Lead (Pb)-Dissolved	mg/L	0.000309	<0.000050
Lithium (Li)-Dissolved	mg/L	0.0266	<0.0050
Magnesium (Mg)-Dissolved	mg/L	2.87	2.78
Manganese (Mn)-Dissolved	mg/L	0.0254	0.000476
Mercury (Hg)-Dissolved	mg/L	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.000422	0.0123
Nickel (Ni)-Dissolved	mg/L	0.005	0.0023
Potassium (K)-Dissolved	mg/L	17.2	11.9
Selenium (Se)-Dissolved	mg/L	0.0018	<0.0010
Silicon (Si)-Dissolved	mg/L	3.33	3.25

Project	JERICO	JERICO
Report To		
ALS File No.	L566140	L566140
Date Received	15-Oct-07	15-Oct-07
Date	16-Nov-07	16-Nov-07

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3
Date Sampled		15-OCT-07	15-OCT-07
Time Sampled		09:00	08:30
ALS Sample ID		L566140-1	L566140-2
Matrix	Units	Water	Water
Silver (Ag)-Dissolved	mg/L	0.00001	<0.000010
Sodium (Na)-Dissolved	mg/L	72.6	17.9
Strontium (Sr)-Dissolved	mg/L	0.0187	0.362
Thallium (Tl)-Dissolved	mg/L	<0.00010	0.00012
Tin (Sn)-Dissolved	mg/L	0.00372	<0.00010
Titanium (Ti)-Dissolved	mg/L	<0.010	<0.010
Uranium (U)-Dissolved	mg/L	0.000063	0.000038
Vanadium (V)-Dissolved	mg/L	<0.0010	<0.0010
Zinc (Zn)-Dissolved	mg/L	0.0137	<0.0010

Aggregate Organics

Oil and Grease	mg/L	3.5	-
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Organic Parameters

Total Inorganic Carbon	mg/L	-	-
Total Organic Carbon	mg/L	-	1.33

Taiga Labs

Taiga File No.	270792
Date Received	15-Oct-07
Date	16-Oct-07
Matrix	Water

Biochemical Oxygen Demand	mg/L	55
Fecal Coleform	CFU/100 mL	2090000

Field Water Temperature	deg C	N/A
Field Conductivity	uS/cm	N/A
Field DO	%	N/A
Field DO	mg/L	N/A
Field pH		N/A
Field ORP	mV	N/A

*Field Measurements not available - field meter out for repair.

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 Escher (tonnes)	Quantity of till (tonnes)
1-Oct	82.3	0.0	57.6	Monthly	0.0	0.0	Monthly	0.0	Monthly	1172.3	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Oct	23.0	0.0	16.1		0.0	0.0		0.0		1155.6							
3-Oct	32.9	0.0	23.0		0.0	0.0		0.0		1183.5							
4-Oct	37.7	0.0	26.4		0.0	0.0		0.0		1178.0							
5-Oct	29.1	0.0	20.4		0.0	0.0		0.0		1288.3							
6-Oct	22.8	0.0	16.0		0.0	0.0		0.0		1344.4							
7-Oct	26.1	0.0	18.3		0.0	0.0		0.0		913.5							
8-Oct	17.4	0.0	12.2		0.0	0.0		0.0		1316.0							
9-Oct	25.9	0.0	18.1		0.0	0.0		0.0		1273.2							
10-Oct	23.9	0.0	16.7		0.0	0.0		0.0		1273.4							
11-Oct	38.6	0.0	27.0		0.0	0.0		0.0		1230.4							
12-Oct	19.6	63.0	13.7		0.0	0.0		0.0		1158.4							
13-Oct	24.9	16.2	17.4		0.0	0.0		0.0		1203.7							
14-Oct	27.1	14.8	19.0		0.0	0.0		0.0		1231.6							
15-Oct	24.3	47.2	17.0		0.0	0.0		0.0		1063.9							
16-Oct	23.2	64.1	16.2		0.0	0.0		0.0		1207.5							
17-Oct	27.9	48.6	19.5		0.0	0.0		0.0		1029.8							
18-Oct	19.4	48.6	13.6		0.0	0.0		0.0		970.7							
19-Oct	23.3	0.0	16.3		0.0	0.0		0.0		957.0							
20-Oct	22.3	0.0	15.6		0.0	0.0		0.0		1223.7							
21-Oct	27.0	0.0	18.9		0.0	0.0		0.0		499.0							
22-Oct	34.0	0.0	23.8		0.0	0.0		0.0		942.4							
23-Oct	22.3	0.0	15.6		0.0	0.0		0.0		1014.6							
24-Oct	45.6	0.0	31.9		0.0	0.0		0.0		1025.1							
25-Oct	23.0	0.0	16.1		0.0	0.0		0.0		1027.6							
26-Oct	23.8	0.0	16.7		0.0	0.0		0.0		1187.2							
27-Oct	79.0	0.0	55.3		0.0	0.0		0.0		956.9							
28-Oct	47.0	0.0	32.9		0.0	0.0		0.0		937.2							
29-Oct	36.6	0.0	25.6		0.0	0.0		0.0		1072.2							
30-Oct	113.1	0.0	79.2		0.0	0.0		0.0		969.5							
31-Oct	51.9	0.0	36.3		0.0	0.0		0.0		898.7							
Total	1075.0	0.0	752.5	28	0.0	0.0	0	0.0	0.0	33905.3	27141	48832	16716	55094	591212	4649	0