

November 30th, 2005

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

RE: Water License NWB1JER0410 Monthly SNP Report – October 2005

General

Table 1 provides an addendum to the July SNP Monthly Report. The data in Table 1 should be substituted for the tables originally reported in the July 2005 monthly report.

During the month of October 2005, JER-SW1 sample was collected as part of the Surveillance Network Program associated with Water License NWB1JER0410. This sample was collected on October 31st, but weather prohibited the shipment of the sample, therefore the sample was re-collected on November 1st for analysis. A summary of water sampling and field measurements is included in Table 2.

Results

A) Water Sampling and Analysis Results

1. Table 3 provides the results for samples related to the SNP sampling requirements for the month of October 2005.

B) Flow and Volume Measurements

1. Table 4 provides a breakdown of flow and volume measurements and solid material moved and required under Part K, Item 12 and 13 of the water license.

Regards,

Mike Tanguay
HSE Manager

Roland Jones
Mine Manager

Cc: George Taptuna, DIAND Land Use Inspector

Table 1

Date	Water Used (Carat Lake)	Sludge Generated STP	Pit Pond Water to East Sump/PKC (m3)	Effluent Discharged STP to PKC	Volume from Collection Pond (recycled)	Jericho Pit Water to PKCA	Collection Pond to PKCA	PKC Water Reclaimed	Effluent discharged from PKC	Coarse Rejects	Fine Rejects to PKC
Method	Measured m ³	Measured m ³	Estimated m ³	Estimated m ³	Measured m ³	Metered m ³	Metered m ³	Metered m ³	Metered m ³	Measured metric ton	Measured metric ton
1-Jul-05	32.7	M o n t h l y T o t a l	0.0	16.3	M o n t h l y T o t a l	0.0	0.0	M o n t h l y T o t a l		M o n t h l y T o t a l	M o n t h l y T o t a l
2-Jul-05	32.7		168.2	16.3		0.0	0.0				
3-Jul-05	20.4		267.8	12.2		0.0	0.0				
4-Jul-05	53.1		249.1	16.3		0.0	0.0				
5-Jul-05	30.6		0.0	14.3		0.0	0.0				
6-Jul-05	53.1		541.9	22.5		0.0	0.0				
7-Jul-05	46.9		436.0	26.5		0.0	0.0				
8-Jul-05	49.0		996.6	26.5		0.0	0.0				
9-Jul-05	40.8		560.6	8.2		0.0	0.0				
10-Jul-05	30.6		373.7	12.2		0.0	0.0				
11-Jul-05	30.6		411.1	10.2		0.0	0.0				
12-Jul-05	57.2		249.1	32.7		0.0	0.0				
13-Jul-05	49.0		373.7	24.5		0.0	0.0				
14-Jul-05	40.8		498.3	24.5		0.0	0.0				
15-Jul-05	32.7		498.3	22.5		0.0	0.0				
16-Jul-05	51.0		2,335.7	20.4		0.0	0.0				
17-Jul-05	34.7		1,631.9	14.3		0.0	0.0				
18-Jul-05	40.8		2,989.7	18.4		0.0	0.0				
19-Jul-05	42.9		996.6	30.6		0.0	0.0				
20-Jul-05	42.9		0.0	24.5		0.0	0.0				
21-Jul-05	22.5		429.8	18.4		0.0	0.0				
22-Jul-05	37.8		1,308.0	20.4		0.0	0.0				
23-Jul-05	30.6		1,913.4	6.1		0.0	0.0				
24-Jul-05	20.4		2,391.8	12.2		0.0	0.0				
25-Jul-05	32.7		179.4	12.2		0.0	0.0				
26-Jul-05	36.7		0.0	28.6		0.0	0.0				
27-Jul-05	36.7		0.0	26.5		0.0	0.0				
28-Jul-05	40.8		242.9	24.5		0.0	0.0				
29-Jul-05	42.9		2,522.6	28.6		0.0	0.0				
30-Jul-05	22.5		336.3	14.3		0.0	0.0				
31-Jul-05	38.8		1,644.4	16.3							
Total	1174.7	13.60	24,547.0	602.2	2217.8	0.0	0.0	0.0	0	0	0

Material Quantities			
Material Type	Quantities million (m ³)	Metric Ton	Location
Overburden Till		100,191	Till Dumps
Waste Rock		68,702	Construction Site
Esker		7,128	Construction Site
Ice			
Kimberlite Ore Processed		n/a	

Table 2

Sample #	Date	Station ID	Sample Class	Sampler	Time	Comments	pH	Conductivity (us/cm)	ORP (mV)	Water Temperature (Deg C)	Air Temperature (Deg C)	Wind speed (Km/h)	Wind Direction
05-11972	01-Nov-03	JER-SW1		MT	9:00		7.5	1020	-65	22.1	-5	10	NE

Table 3

JER-SW1			
Station Name		STP Effluent	STP Effluent
Collect Date/Time		11/1/2005	11/1/2005
Sample No.		05-11972-D	05-11972
Air Temperature	Deg C		-5
Wind Speed	KM/H		10
Wind Direction	unitless		NE
Water Temperature	Deg C		22.1
Field pH	pH		7.5
Field Conductivity	us/cm		1020
Oxidation Reduction Potential	mV		-65
Biochemical Oxygen Demand	mg/L		149
MF - Fecal Coliforms	CFU/100mL		460000
Turbidity	NTU		52
Total Suspended Solids @105°C	mg/L		64
T-Hardness as CaCO3	mg/L		
T-Dissolved Solids180°C	mg/L		364
T-Alkalinity as CaCO3	mg/L		350
Sulphate	mg/L		47.8
Phosphate - Ortho - Phosphoru	mg/L		10.9
pH @ 25°C	pH		7.35
Nitrite - Nitrogen	mg/L		<0.05
Nitrate - Nitrogen	mg/L		<0.05
Hydroxide (as CaCO3)	mg/L		<1
Fluoride	mg/L		0.09
Conductivity @ 25°C	us/cm		981
Chloride	mg/L		42
Carbonate	mg/L		<1
Bicarbonate	mg/L		427
Balance (+ions/-ions)	Ratio		
Acidity as CaCO3	mg/L	-288	-293
Carbon (Total Organic)	mg/L		65
Ammonia - Nitrogen	mg/L		77.3
Carbon (Total Inorganic)	mg/L		97
Total Iron	mg/L		0.91
Total Manganese	mg/L		0.04
Total Zinc	mg/L	0.122	0.123
Total Vanadium	mg/L	0.0017	0.0018
Total Uranium	mg/L	0.00013	0.00013
Total Thallium	mg/L	<0.00005	<0.00005
Total Strontium	mg/L	0.0241	0.0238
Total Sodium	mg/L		73.6
Total Silver	mg/L	<0.0002	<0.0002
Total Silicon	mg/L		5.29
Total Selenium	mg/L	0.0009	0.0011
Total Potassium	mg/L		23
Total Phosphorus	mg/L	7.91000	7.84000

JER-SW1			
Station Name		STP Effluent	STP Effluent
Total Nickel	mg/L	0.0052	0.0052
Total Molybdenum	mg/L	0.0012	0.0011
Total Mercury	mg/L	<0.00010	<0.00010
Total Magnesium	mg/L		3.46
Total Lead	mg/L	0.0031	0.0032
Total Copper	mg/L	0.0734	0.0750
Total Cobalt	mg/L	0.0003	0.0003
Total Chromium	mg/L	0.0048	0.005
Total Calcium	mg/L		10.7
Total Cadmium	mg/L	0.0003	0.0003
Total Boron	mg/L	0.0190	0.020
Total Beryllium	mg/L	<0.0005	<0.0005
Total Barium	mg/L	0.013	0.013
Total Arsenic	mg/L	0.0010	0.0009
Total Antimony	mg/L	0.0018	0.0018
Total Aluminum	mg/L	0.203	0.193
Dissolved Calcium	mg/L	8.0	9.5
Dissolved Magnesium	mg/L	3.3	3.4
Dissolved Potassium	mg/L	20.9	20.8
Dissolved Sodium	mg/L	74	73.4
Total Phosphorus	mg/L		13.5
Dissolved Zinc	mg/L	0.061	0.063
Dissolved Vanadium	mg/L	0.0006	0.0006
Dissolved Uranium	mg/L	<0.00005	<0.00005
Dissolved Thallium	mg/L	<0.00002	<0.00002
Dissolved Strontium	mg/L	0.0226	0.0229
Dissolved Silver	mg/L	<0.00005	<0.00005
Dissolved Silicon	mg/L	4.3200	4.34
Dissolved Selenium	mg/L	0.0009	0.0008
Dissolved Phosphorus	mg/L	7.97000	7.72000
Dissolved Nickel	mg/L	0.0010	0.0009
Dissolved Molybdenum	mg/L	0.0004	0.0004
Dissolved Mercury	mg/L	<0.00010	<0.00010
Dissolved Manganese	mg/L	0.034	0.039
Dissolved Lead	mg/L	0.00059	0.00065
Dissolved Iron	mg/L	0.5900	0.61
Dissolved Copper	mg/L	0.0285	0.0299
Dissolved Cobalt	mg/L	0.00015	0.00016
Dissolved Chromium	mg/L	0.0030	0.0029
Dissolved Cadmium	mg/L	0.00007	0.00007
Dissolved Boron	mg/L	0.013	0.012
Dissolved Beryllium	mg/L	<0.0001	<0.0001
Dissolved Barium	mg/L	0.013	0.013
Dissolved Arsenic	mg/L	0.0006	0.0007
Dissolved Antimony	mg/L	0.0005	0.0005
Dissolved Aluminum	mg/L	0.077	0.073

Table 4

DATE	Carat Lake Freshwater Use (m3) (Camp)	Pit Pond Water to East Sump/PKC (m3)	Other waters to East Sump (m3)	Other waters from East Sump (m3)	East Sump pond to PKC (Long Lake) (m3)	Treated Sewage Effluent to PKC (Long Lake) (m3)	Sewage Sludge Removed (m3)	Long Lake Dewatering (m3)	Quantity of Waste Rock (tonnes)	Quantity of Esker (tonnes)	Quantity of till (tonnes)
1-Oct	48.0	0.0	0.0	0.0	0.0	24.30	Monthly	1769.0	Monthly	Monthly	Monthly
2-Oct	36.0	0.0	0.0	0.0	0.0	20.59		2069.2			
3-Oct	51.0	0.0	0.0	0.0	0.0	28.51		2069.2			
4-Oct	42.0	0.0	0.0	0.0	0.0	29.91		2069.2			
5-Oct	54.0	0.0	0.0	0.0	0.0	24.86		2069.2			
6-Oct	39.0	0.0	0.0	0.0	0.0	39.84		2069.2			
7-Oct	39.0	0.0	0.0	0.0	0.0	25.05		2069.2			
8-Oct	48.0	0.0	0.0	0.0	0.0	25.52		2069.2			
9-Oct	39.0	0.0	0.0	0.0	0.0	0.36		2069.2			
10-Oct	51.0	0.0	0.0	0.0	0.0	6.51		2069.2			
11-Oct	33.0	0.0	0.0	0.0	0.0	9.22		2069.2			
12-Oct	78.0	0.0	0.0	0.0	0.0	9.82		2069.2			
13-Oct	54.0	0.0	0.0	0.0	0.0	9.82		2069.2			
14-Oct	60.0	0.0	0.0	0.0	0.0	23.85		2069.2			
15-Oct	72.0	0.0	0.0	0.0	0.0	21.99		2069.2			
16-Oct	24.2	0.0	0.0	0.0	0.0	19.16		2069.2			
17-Oct	28.1	0.0	0.0	0.0	0.0	21.81		2069.2			
18-Oct	29.5	0.0	0.0	0.0	0.0	23.41		2069.2			
19-Oct	33.3	0.0	0.0	0.0	0.0	21.95		2069.2			
20-Oct	32.3	0.0	0.0	0.0	0.0	35.36		2069.2			
21-Oct	26.4	0.0	0.0	0.0	0.0	20.34		2069.2			
22-Oct	39.6	0.0	0.0	0.0	0.0	27.83		2069.2			
23-Oct	26.1	0.0	0.0	0.0	0.0	34.41		2069.2			
24-Oct	34.4	0.0	0.0	0.0	0.0	24.51		2069.2			
25-Oct	43.0	0.0	0.0	0.0	0.0	26.32		2069.2			
26-Oct	44.3	0.0	0.0	0.0	0.0	47.06		2069.2			
27-Oct	33.8	0.0	0.0	0.0	0.0	47.06		2069.2			
28-Oct	22.2	0.0	0.0	0.0	0.0	28.62		2069.2			
29-Oct	45.0	0.0	0.0	0.0	0.0	26.64		2069.2			
30-Oct	28.8	0.0	0.0	0.0	0.0	26.77		2069.2			
31-Oct	28.1	0.0	0.0	0.0	0.0	32.93		2069.2			
Total	1263.1	0.0	0.0	0.0	0.0	764.31	54.5	63845.0	185900	0	114400