

# 300-889 Harbourside Drive, North Vancouver, B.C. V7P 3S1 phone 604-985-2572 fax 604-980-0731

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Technical Advisor – Mining Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

## Re: August 2007—Monthly Monitoring Report for Water License 2BB-BOS0712

Following is the monthly report for August 2007 as required under Water license 2BB-BOS0712.

## **Monitoring Program**

During the month of August 2007, 15 water and effluent samples were collected, as part of the monitoring program. No effluents were discharged from BOS-1, BOS-3 and BOS-4 during August.

As MHBL uses an external certified laboratory for carryout all the analyses and the sample sizes are quite small, MHBL uses the QAQC data produced by the laboratory to determine the accuracy and precision of the issued results. A summary of the monthly sampling for water license is provided in Table 1. Microbiological samples at most times were arriving late to the external laboratories because of the delays in shipment and logistical problems getting them to a laboratory within 24 hours period.

**Table 1: SNP Water sampling summary** 

Station Number	Sampling Date	Lab Reference #	Comment and Lat./ Long. coordinates
BOS-1	August 23 2007	L545844-1	Spyder Lake water Intake
BOS-2	No discharge	=	Containment Pond Discharge
BOS-3	August 23 2007	L545844-2	RBC effluent
BOS-4	August 23 2007	L545844-3	RBC effluent meets Spyder Lake
BOS-5	No discharge	-	Effluent from Bulk fuel farm prior to release
BOS-6	No discharge	-	Effluent from Land Treatment Area
BOS-7	No discharge	-	Landfill Leachate
BOS-8	No discharge	-	Waste Rock and Ore Storage Pad

#### Water usage

During the month of August 2007, Boston Camp was in operation for the whole month. Water abstraction pumps were located at Spyder Lake (BOS-1) and east of Spyder Lake for drills located at Boston.

There were 2 drill rigs active at Boston for 24 days and 1 rig for 7 days for the month of August. In total, there were 55 drilling days for August 2007. The water consumption for the drill rigs were calculated from water usage used to renew Boston Project Water License. A volume of 2.5 m³ per drill per day was assumed using the total number of drill rigs active at any given day in a month.

Table 2 provides the water volume usage as required under Part J, Item 6 of the water licenses.

### **Results**

Water sampling and analysis results are provided in Table 3 for samples related to the SNP sampling requirements for the month of August 2007. The laboratory analytical results will be made available upon request.

mail: <u>mkawei@miran</u>	narmining.com		

Table 2: Water usage in cubic meters (m³) for Boston Camp activities

Details	BOS-1	Drills <sup>1</sup>	Total	Remarks
Water Source	Spyder Lake	Spyder Lake	Spyder Lake & Drill Rigs	2BB-BOS0712: Compliance License
Monthly Cumulative	318	138	456	3,100 m³ monthly
Volume Average (Daily)	10	5	15	100 m³ daily
Median	10	4.4	15	100 m³ daily
Maximum	15	5	20	100 m³ daily
Minimum	8	2.5	13	100 m³ daily

Table 3: Effluent Discharge from the WWTF, from Monitoring Stations BOS-1, BOS-3 & BOS-4

Parameter	BOS-1	BOS-3	BOS-4	Hope Bay: 2BB-BOS0712
ALS Lab Reference #	L545844-1/270573-001	L545844-2/270573-002	L545844-3/270573	Compliance Values
Field Sample Details	BOS-1	BOS-3	BOS-4	Part D: Item 10
Sample Date/Time	August 23 2007 @ 09:15	August 23 2007 @ 09:00	August 23 2007 @ 09:10	Part J: Item 2
Biochemical Oxygen Demand (BOD <sub>5</sub> )	<2	285	<2	80 mg/L
Total Suspended Solids (mg/L)	-	-	-	100 mg/L
Fecal Coliforms	<1	234,000	4	10 x 10 <sup>4</sup> CFU/100 mL
pH (pH unit)	7.3	7.9	7.3	Between 6 and 9
Oil & Grease (Visibility)	No visible sheen	No visible sheen	No visible sheen	No visible Sheen

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<sup>&</sup>lt;sup>1</sup> Calculated (estimate of water consumed by drilling per day based on Boston License application (~ 2.5 m³/day)