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Technical Advisor – Mining  
Nunavut Water Board  
P.O. Box 119  
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**Re: July 2007–Monthly Monitoring Report for Water License 2BB-BOS0712**

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

**Monitoring Program**

During the month of July 2007, 15 water and effluent samples were collected, as part of the monitoring program. As MHLB uses an external certified laboratory for carryout all the analyses and the sample sizes are quite small, MHLB 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. Note: Some of the parameters were not sampled due to the fact that new water license was received on the July 25 via email and additional sampling bottles had to be re-ordered for new parameters. 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	July 05 2007	L529307-3	Spyder Lake water Intake
BOS-2	No discharge	-	Containment Pond Discharge
BOS-3	July 05 2007	L529307-1	RBC effluent
BOS-4	July 05 2007	L529309-2	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 July 2007, Windy camp was in operation for the whole month. Water abstraction pumps were located the southeast bank of Spyder Lake (BOS-1) and southeast of Boston Camp at the confluence of Stickleback Lake flowing into Spyder Lake for drills located at the Boston Project.

There was 1 drill rig active at Boston for 27 days for the month of July. Water consumption rates for the drill rig was calculated from water usage used to renew Boston Project Water License. A volume of 2.5 m<sup>3</sup> 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 July 2007. The laboratory analytical results will be made available upon request.

Should there be any questions regarding the monthly report for July 2007, **please** contact Matthew Kawei, MHL Exploration Senior Environmental Coordinator.

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Table 2: Water usage in cubic meters (m<sup>3</sup>) 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	303	67.5	370.5	3,100 m <sup>3</sup> monthly
Volume Average (Daily)	10	2.2	12.0	100 m <sup>3</sup> daily
Median	10	2.5	11.5	100 m <sup>3</sup> daily
Maximum	18	2.5	20.5	100 m <sup>3</sup> daily
Minimum	5	0	7.0	100 m <sup>3</sup> 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 #	L529307-3	L529307-1	L529307-2	<b>Compliance Values</b>
Field Sample Details	SNP#1652-1	SNP#1652-3	SNP#1652-4	Part D: Item 10
Sample Date/Time	July 05 2007 @ 09:25	July 05 2007 @ 08:57	July 05 2007 @ 09:05	Part J: Item 2
Biochemical Oxygen Demand (BOD <sub>5</sub> )	<5	180	<5	80 mg/L
Total Suspended Solids (mg/L)	<3	44.4	<3	100 mg/L
Fecal Coliforms	-	-	-	10 x 10 <sup>4</sup> CFU/100 mL
pH (pH unit)	6.93	7.58	6.73	Between 6 and 9
Oil & Grease (Visibility)	12.7	25.9	12.0	No visible Sheen

<sup>1</sup> Calculated (estimate of water consumed by drilling per day based on Boston License application (~ 2.5 m<sup>3</sup>/day)