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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 2BE-HOP0712

Following is the monthly report for August 2007 as required under Water license 2BE-HOP0712.

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 HOP-4, HOP-5 and HOP-6 during August.

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. 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
HOP-1	August 20 2007	L545844-4	Windy Lake water Intake
HOP-2	August 20 2007	L545844-5	RBC surge Tank
HOP-3	August 20 2007	L545844-6	RBC effluent meets Windy Lake
HOP-4	No discharge	-	LTA effluent prior to release
HOP-5	No discharge	-	Effluent from Bulk fuel farm prior to release
HOP-6	No discharge	-	Patch Lake Fuel Farm Effluent

Water usage

During the month of August 2007, Windy camp was in operation for the whole month. Water abstraction pumps were located at Windy Lake (HOP-1), northwest of Patch Lake for drills located at Madrid Project areas.

There were 4 drill rigs active at Hope Bay for 12 days, 3 rigs for 5 days, 2 rigs for 11 days, 1 rig for 2 days and 5 rigs for 1 day for the month of August. In total, there were 91 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.

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

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Table 2: Water usage in cubic meters (m³) for Windy Lake Camp and Drill rig sites

Details	HOP-1	Remarks	Drills ¹	Remarks	Total	Remarks
Water Source	Windy Lake	Part C: Item 1	Patch Lake/Peanut Lake	Part C: Item 1	Windy Lake Camp & Drill Rigs	2BE-HOP0712: Compliance License
Monthly Cumulative	477	620	231	930	708	1550 m ³ monthly
Volume Average (Daily)	15	20	8	30	23	50 m ³ daily
Median	15	20	8	30	23	50 m ³ daily
Maximum	46	20	13	30	46	50 m ³ daily
Minimum	3	20	3	30	6	50 m ³ daily

Table 3: Effluent Discharge from the WWTF, from Monitoring Stations HOP-1, HOP-2 & HOP-3

Parameter	HOP-1	HOP-2	HOP-3	Hope Bay: 2BE-HOP0712
ALS Lab Reference #	L545844-4/270573-001	L545844-5/270573-002	L545844-6/270573	Compliance Values
Field Sample Details	07HOP-1	07HOP-2	07HOP-3	Part D: Item 10
Sample Date/Time	August 20 2007 @ 13:46	August 20 2007 @ 13:57	August 20 2007 @ 13:32	Part J: Item 2
Biochemical Oxygen Demand (BOD ₅)	<2	64	<2	80 mg/L
Total Suspended Solids (mg/L)	-	-	-	100 mg/L
Fecal Coliforms	<1	91,000	4	10 x 10 ⁴ CFU/100 mL
pH (pH unit)	8.0	7.7	8.8	Between 6 and 9
Oil & Grease (Visibility)	<1	48	<1	No visible Sheen

¹ Calculated (estimate of water consumed by drilling per day based on Boston License application (~ 2.5 m³/day)