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October 14, 2007

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

Re: September 2007–Monthly Monitoring Report for Water License 2BE-HOP0712

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

Monitoring Program

During the month of September 2007, 13 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 September.

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	-	-	Windy Lake water Intake
HOP-2	September 06 2007	L551047-1	RBC surge Tank
HOP-3	September 06 2007	L551047-2	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 September 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 6 drill rigs active at Hope Bay for 1 day, 5 rigs for 2 days, 4 rigs for 8 days, 3 rigs for 8 days, 2 rigs for 8 days and 1 rig for 3 days for the month of September. In total, there were 91 drilling days for the September 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 September 2007. Tables 4 and 5 provide detail of analyses on rainbow trout fingerlings, *Oncorhynchus mykiss* and crustaceans, *Daphnia magna* subjected to water samples collected from HOP-3. The laboratory analytical results will be made available upon request.

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

Email: mkawei@miramarmining.com

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	Part C: Item 1	Windy Lake Camp & Drill Rigs	2BE-HOP0712: Compliance License
Monthly Cumulative	425	600	228	900	652	1500 m ³ monthly
Volume Average (Daily)	14	20	7.6	30	22	50 m ³ daily
Median	14	20	7.5	30	21	50 m ³ daily
Maximum	17	20	15	30	28	50 m ³ daily
Minimum	11	20	2.5	30	16	50 m ³ daily

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

Parameter	HOP-2	HOP-3	Hope Bay: 2BE-HOP0712
ALS Lab Reference #	L551047-1	L551047-1	Compliance Values
Field Sample Details	HOP-2	HOP-3	Part D: Item 10
Sample Date/Time	September 06 07 @ 09:40	September 06 07 @ 09:00	Part J: Item 2
Biochemical Oxygen Demand (BOD ₅)	100	<2	80 mg/L
Total Suspended Solids (mg/L)	102	<3	100 mg/L
Fecal Coliforms	-	-	10 x 10 ⁴ CFU/100 mL
pH (pH unit)	7.8	7.9	Between 6 and 9
Oil & Grease (Visibility)	No visible sheen	No visible sheen	No visible Sheen

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

Table 4: Results of Acute Toxicity Test for water sampling site HOP-3 under Hope Bay water License # 2BE-HOP0712, Part J: Item 3.

Daphnia Magna Bioassay Test Report – Pass/Fail

Sample Number: L551047-2

Summary Results

48-hour Pass/Fail:	PASS
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Sample Information

Sample Origin:	Miramar Hope Bay Ltd.
Sample Description:	HOP-3
Sampling Date and Time:	06-Sept-07 09:00
Sampling Method:	Grab
Sampled By:	Matt Kawei
Container(s) Description:	1 x 1 L Glass amber bottle
Sample Volume (L):	1 L
Date and Time Received:	10-Sept-07 12:30pm
Transit Irregularities:	None
Storage Temperature (°C):	N/A

Test Information

Test Organism:	Daphnia magna
Test Description:	Acute, 48-hour, Static, Pass/Fail
Reference Method:	EPS1/RM/14, 2 nd Ed. Dec. 2000, Environment Canada
Performed By:	JA
Starting Date & Time:	10-Sept-07 16:30
Deviations from Reference Method:	None

Table 5: Results of Acute Toxicity Test for water sampling site HOP-3 under Hope Bay water License # 2BE-HOP0712, Part J: Item 3.

Rainbow Trout Bioassay Test Report – Pass/Fail

Sample Number: L551047-2

Summary Results

96-hour Pass/Fail: PASS

Sample Information

Sample Origin:	Miramar Hope Bay Ltd.
Sample Description:	HOP-3
Sampling Date and Time:	06-Sept-07 09:00
Sampling Method:	Grab
Sampled By:	Matt Kawei
Container(s) Description:	1 x 20 L Blue barrel
Sample Volume (L):	20 L
Date and Time Received:	10-Sept-07 12:30pm
Transit Irregularities:	None
Storage Temperature (°C):	14

Test Information

Test Organism:	Oncorhynchus mykiss
Test Description:	Acute, 96-hour, Static, LC50
Reference Method:	EPS1/RM/13, 2 nd Ed. Dec. 2000, Environment Canada
Performed By:	JA
Starting Date & Time:	11-Sept-07 12:00pm
Deviations from Reference Method:	None