

November 15, 2010

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

Re: October 2010 – Monthly Monitoring Report for Water License 2BB-BOS0712 under Part J – Items 2 – 8 and 11 - 14.

Following is the monthly report for October 2010 as required under Water License 2BB-BOS0712. Boston Camp facilities were shut down May 25/09 and re-opened June 15/10 at reduced staffing levels while modifications to the Sewage Treatment Plant (STP) were being completed.

1. PART J: ITEM 2

Sampling was not conducted during the month at monitoring station BOS-2 (Containment Pond), as no discharge occurred during the period.

2. Part J: ITEM 3

Samples were collected at the Sewage Treatment Plant station BOS-3 during October. Table 1 below shows the results for samples collected October 04/10. Samples were not collected from BOS-4 as this station has insufficient effluent for sampling and the area is frozen. Effluent quality from the Sewage Treatment Facility was compliant for all parameters, with the exception of Oil and Grease visibility, for which an error was made in the sample submission and a gravimetric result was provided instead of a visibility analysis by the laboratory. This omission is being rectified for future sampling. The gravimetric value for Oil and Grease has been reported in the table below.

Table 1. Sampling Results in mg/L for Monitoring Station BOS-3, October 2010

Parameters	BOS-3	License # 2BB-BOS0712 Part D: Item 17
ALS Lab Reference #	L939223-4	
Field Sample Details	BOS-3	
Sample Date/Time	October 4/10@ 0630 hrs	
BOD ₅	4.6	80.0 mg/l
Total Suspended Solids	9.0	100.0 mg/l
Faecal Coliform	6	10,000 CFU/100ml
Oil and Grease (visibility)	Not reported	No visible sheen
Oil and Grease	<1.0	-
pH	6.54	6.0 – 9.5 pH unit

3. **PART J: ITEM 4**

Toxicity testing was conducted during August and the results for *Daphnia magna* were reported on in the August monthly report. Table 2 below contains the results from toxicity testing on Rainbow Trout as required under this part.

Table 2. Sampling Results for Toxicity Testing at Station BOS-4, October 2010

Parameters	BOS-4	Remarks
ALS Lab Reference #	L924744-2	License # 2BB-BOS0712
Field Sample Details	BOS-4	-
Sample Date/Time	Aug 24/10@1600 hrs	-
Rainbow Trout – LC50	No Toxicity Observed	Non Acutely Toxic

4. **PART J: ITEM 5**

No discharge from BOS-5 (Bulk Fuel Storage) occurred during this period.

No sampling was conducted at BOS-6 (Landfarm Treatment Facility) as there was negligible effluent accumulated in the berm and no discharge to the environment from this facility.

No samples were collected at sampling station BOS-7 during the month, as no water was observed at this location.

These facilities are all now becoming frozen for the winter season.

5. **PART J: ITEM 6 AND PART J: ITEM 7**

No sampling occurred at BOS-8 during the period for the parameters required under this part.

6. **PART J: ITEM 8**

On-ice drilling samples were not collected as no drilling was conducted pertaining to this licence during the period.

7. **PART J: ITEM 11**

No water usage for drilling occurred pertaining to this licence for the month of October. Domestic water used during October is detailed in Table 3.

Table 3: Water Usage in cubic meters (m³), October 2010

Parameters	Domestic Usage BOS-1 (m ³)	2BB-BOS0712
Water Source	Spyder Lake	Compliance Values
Annual Cumulative	850.49	
Monthly Cumulative	77.43	3,100 m ³ monthly
Volume Average (Daily)	2.61	100 m ³ daily
Maximum	6.7	100 m ³ daily
Minimum	0.17	100 m ³ daily

8. PART J: ITEM 12

No minewater was pumped from underground (Boston Portal) during the month.

9. PART J: ITEM 13

Sewage effluent discharge occurred at monitoring station BOS-3 in the month of October. The results of samples collected from this discharge are shown in Table 1 above. The volume discharged is shown in Table 4 below.

Table 4: Treated Sewage Effluent released in cubic meters (m³), October 2010

Parameters	BOS-3 (m ³)	2BB-BOS0712
Annual Cumulative	359.30	-
Monthly Cumulative	45.24	-
Volume Average (Daily)	1.5	-
Maximum	5.2	-
Minimum	0.06	-

10. PART J: ITEM 14

No removal of sewage sludge occurred in October at the Sewage Disposal Facility.

11. INCIDENT REPORTING

No incidents occurred during the month pertaining to this licence.

Should there be any questions regarding the monthly report for October 2010, please contact Chris Hanks, Director, Environment and Social Responsibility, Hope Bay Mining Limited on phone number: 720-917-4489 or email: Chris.Hanks@Newmont.com

Yours sincerely,

Chris Hanks

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