

May 27, 2009

Technical Advisor – Mining
Nunavut Water Board
P.O. Box 119
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Re: April 2009 –Monthly Monitoring Report for Water License 2BE-BOS0712 under Part J – Items 2 – 8 and 11 - 14.

Following is the monthly report for April 2009 as required under Water license 2BB-BOS0712. Hope Bay Mining Ltd. (HBML) Operations personnel moved into Boston Camp on February 25 to re-open the exploration camp. The camp opened for occupancy on March 5th 2009. Preparations for the installation of the new sewage treatment plant (STP) were underway. An application for the modification of the water licence and an updated Sewage Management Plan has been submitted to the Nunavut Water Board for review. This document will cover the new STP once installation is complete.

1. PART J: ITEM 2

No sampling conducted during the month at BOS-2 – station frozen.

2. PART J: ITEM 3

Samples were collected at BOS-3 on April 15 and 22, 2009. No sampling was conducted at BOS-4 as this monitoring station was frozen. Results for sampling at monitoring station BOS-3 are tabulated in Table 1.

Table 1. Effluent Discharge Quality at Monitoring Station BOS-3, April 2009

Parameter/SNP Sites	BOS-3	BOS-3	Boston: 2BB-BOS0712
ALS Lab Reference #	L752600-1	L755408-4	Maximum Average Concentration (mg/L)
Field Sample Details	BOS-3	BOS-3	Part G: Item 3
Sample Date/Time	April 15, 2009	April 22, 2009	(b)
BOD ₅	150	145	80 mg/L
TSS (mg/L)	131	164	100 mg/L
Fecal Coliform	>200	194,000	10,000 CFU/100mL
pH (pH unit)	7.73	7.79	Between 6.0 and 9.5
Oil & Grease (Visibility)	nvs	nvs	NVS
Oil & Grease (mg/L)	5.2	8.6	5

*non-compliant values are indicated in bold

Values for BOD, TSS, and Oil and Grease (gravimetric) all exceeded water licence compliance values for the April 15, 2009 sampling. Fecal coliform values were not sufficiently diluted by the lab to allow for quantification. Values for BOD, TSS, Fecal Coliforms and Oil and Grease (gravimetric) all exceeded compliance values for the April 22/09 sampling. It was expected that the existing STP plant would continue to be non-compliant and will only be used until the new membrane plant is operational at Boston.

3. PART J: ITEM 4

No sampling conducted during the month at BOS-4 –station frozen.

4. **PART J: ITEM 5**

No sampling conducted during the month at BOS-5, BOS-6 or BOS-7 as the stations are frozen.

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

No opportunities for sampling occurred at BOS-8 during the month.

6. **PART J: ITEM 8**

On –ice drilling water quality samples were collected on March 25, 2009 and March 30, 2009 from Spyder Lake. The results were not available for reporting until April. Parameters analysed for these sampling events are tabulated in Table 2.

Table 2. Representative Water Samples Below Ice – Spyder Lake, March 2009 (values in mg/L with the exception of pH and EC)

Parameters				2BB-BOS0712
Date	Mar 25/09	Mar 25/09	Mar 30/09	
Water Source	Spyder Lake	Spyder Lake	Spyder Lake	Compliance Values ¹
Field Sample Details	Spyder Lake #1	Spyder Lake #2	Spyder Lake (via BOS-1 Intake)	Part F: Item 6 and 7 Part J: Item 8
Geographical Coordinates	67° 39.451' N 106° 23.492' W	67° 39.569' N 106° 23.604' W	67° 39.455' N 106° 23.425' W	
ALS Lab Reference #	L747348-4	L747348-5	L747348-1/2	
TSS	<3.0	<3.0	<3.0	*
pH	6.99	7.01	7.05	No Guidelines
Electrical Conductivity	84.7	102	103	No Guidelines
Mercury	<0.00010	<0.00010	<0.00010	No Guidelines
Iron	0.104	0.430	0.315	No Guidelines
Manganese	0.0033	0.0138	0.0140	No Guidelines
Aluminium	0.055	0.082	0.06	No Guidelines
Arsenic	<0.00040	0.00058	<0.00040	No Guidelines
Barium	0.0040	0.0056	0.0068	No Guidelines
Beryllium	<0.0010	<0.0010	<0.0010	No Guidelines
Cadmium	<0.00020	<0.00020	<0.00020	No Guidelines
Cobalt	<0.002	<0.0020	<0.0020	No Guidelines
Chromium	<0.0050	<0.0050	<0.0050	No Guidelines
Copper	0.0043	0.0069	0.108	No Guidelines
Lithium	<0.010	<0.010	<0.010	No Guidelines
Molybdenum	<0.0050	<0.0050	<0.0050	No Guidelines
Nickel	<0.0020	<0.0020	<0.0020	No Guidelines
Lead	0.00048	0.00137	0.00233	No Guidelines
Antimony	<0.00040	0.00049	<0.00040	No Guidelines
Selenium	<0.00040	0.00106	0.00117	No Guidelines
Tin	<0.050	<0.050	<0.050	No Guidelines
Titanium	0.0012	0.0012	0.0024	No Guidelines
Thallium	<0.00010	<0.00010	<0.00010	No Guidelines
Uranium	<0.00010	<0.00010	<0.00010	No Guidelines
Vanadium	<0.0010	<0.0010	<0.0010	No Guidelines
Zinc	0.0068	0.0318	0.0159	No Guidelines

* Return water must be non-toxic, and not result in an increase in TSS in the immediate receiving waters above CCME Guidelines for the Protection of Freshwater Life (ie: 10mg/L for lakes with background levels under 100mg/L, or 10% for those above 10mg/L)

These results were compared with baseline water quality data from lakes near Boston for previous years that indicated background levels of some naturally-occurring trace metals, particularly iron and copper, were often found to be elevated above CCME-CWQ Guidelines for lakes in the region.

¹ Bold values exceed CMME Water Quality Guidelines for the Protection of Aquatic Life

7. **PART J: ITEM 11**

Water usage from camp operations is detailed in the Table 3. Drilling was not conducted pertaining to 2BB-BOS0712 in April.

Table 3. Camp Water Usage in cubic meters (m³), April 2009

Parameters	BOS-1 Camp	Total Usage m ³	2BB-BOS0712
Water Source	Spyder Lake		Compliance Values
Monthly Cumulative	58.8	58.8	3,100 m ³ monthly
Volume Average (Daily)	2.1	2.1	100 m ³ daily
Median	2.1	2.1	100 m ³ daily
Maximum	7.36	7.36	100 m ³ daily
Minimum	0.85	0.85	100 m ³ daily

8. **PART J: ITEM 12**

No minewater was pumped from underground during the month.

9. **PART J: ITEM 13**

Effluent discharge at BOS-3 is detailed in the Table 4.

Table 4: Sewage Effluent released in cubic meters (m³) for Boston Camp STF (BOS-3), April 2009

Parameters	BOS-3
Monthly Cumulative	58.8*
Volume Average (Daily)	-
Median	-
Maximum	-
Minimum	-

* Problems with the effluent discharge meter necessitate using the metered intake volume as an estimate of discharge for the month of April.

10. **PART J: ITEM 14**

No sewage sludge was removed from the STP facility during the month.

11. **INCIDENT REPORTING**

One incident was reported during the period.

- 1) April 30/09 – Level 1 (Minor) Boston STP Non-compliant for two sampling events in April for BOD, TSS, Oil and Grease and Fecal Coliforms. It was expected that this plant would be non-compliant and would only be used in the interim until the new membrane plant was operational at Boston.

Should there be any questions regarding the monthly report for April 2008, 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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