

June 22, 2010

Technical Advisor – Mining
Nunavut Water Board
P.O. Box 119
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Re: May 2010 – Monthly Monitoring Report for Water License 2BE-HOP0712 under Part J – Items 2 – 8.

Following is the monthly report for May 2010 as required under Water license 2BE-HOP0712. Note that Windy Camp closed for operation in 2008. Drilling water consumption will be reported under Part J: Item 6 of this report.

1. PART J: ITEM 2

During the month of May 2010, no water quality sampling was done at SNP stations HOP-2 and HOP-3 located at Windy Lake. The Windy Camp was closed for operation as of October 23, 2008.

2. PART J: ITEM 3

No sampling was conducted for Non-acute Toxicity at HOP-3 during the month of May as the WWTF facility was not operational and there is no effluent available for sampling at the point of entry into Windy Lake.

3. PART J: ITEM 4

No samples were taken from monitoring station HOP-5 and HOP-6 in May as any water accumulation is frozen.

4. PART J: ITEM 5

Water quality samples under Part F: Item 7 - Drilling through Lake Ice were collected in May before drilling commenced on Windy Lake. These results, as well as post-drilling results are reported in the Table 1.

Table 1. Pre-drilling / Post-drilling water quality data – Windy Lake, May 2010.

Sample ID #		WL-HOP#1 (Pre-drilling)	WL-HOP#1 (Post-drilling)	WL-HOP #2 (Pre-drilling)	WL-HOP#2 (Post-drilling)
ALS Lab #		L884426-1	L891533-1	L884426-2	L891533-2
Sample Date		5/1/2010 @ 1430 hrs	5/25/2010 @ 1530 hrs	5/1/2010 @ 1520 hrs	5/25/2010 @ 1530 hrs
Sample Location		Windy Lake	Windy Lake	Windy Lake	Windy Lake
TSS	mg/L	<3.0	<3.0	<3.0	<3.0
Alkalinity, Total (as CaCO ₃)	mg/L	56.9	56.4	56.9	58.2
Bicarbonate (HCO ₃)	mg/L	69.4	68.9	69.4	71.0
Carbonate (CO ₃)	mg/L	<5.0	<5.0	<5.0	<5.0
Chloride (Cl)	mg/L	118	113	124	115
Conductivity (EC)	uS/cm	502	492	502	499
Fluoride (F)	mg/L	0.083	0.078	0.090	0.078
Hardness (as CaCO ₃)	mg/L	82.1	86.5	81.8	79.9

Hydroxide (OH)	mg/L	<5.0	<5.0	<5.0	<5.0
Ion Balance	%	95.4	101	90.9	93.4
Nitrate and Nitrite as N	mg/L	<0.071	<0.071	<0.071	<0.071
Nitrate (as N)	mg/L	<0.050	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050	<0.050
Total Kjeldahl Nitrogen	mg/L	<0.20	n/a	<0.20	n/a
Nitrogen, Total	mg/L	<0.20	n/a	<0.20	n/a
pH	pH	7.99	7.92	7.99	7.94
Phosphorus, Total	mg/L	<0.020	n/a	<0.020	n/a
TDS (Calculated)	mg/L	254	250	259	248
Sulfate (SO4)	mg/L	9.72	9.42	10.3	9.42
Total Organic Carbon	mg/L	n/a	n/a	n/a	n/a
Aluminum (Al)-Total	mg/L	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00080	0.00104	0.00092	0.00119
Barium (Ba)-Total	mg/L	<0.0030	<0.0030	<0.0030	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	0.052	0.052	0.051	0.052
Cadmium (Cd)-Total	mg/L	<0.000050	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	12.9	14.1	14.3	13.9
Chromium (Cr)-Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0024	0.0012	0.0023	0.0011
Iron (Fe)-Total	mg/L	<0.010	<0.010	<0.010	<0.010
Lead (Pb)-Total	mg/L	0.00020	<0.00010	0.00015	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	10.5	11.2	11.6	11.0
Manganese (Mn)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Mercury (Hg)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	4.40	4.05	4.58	4.20
Selenium (Se)-Total	mg/L	0.00103	0.00127	0.00103	0.00128
Silver (Ag)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	62.2	60.5	61.5	61.7
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	0.00021	0.00019	0.00020	0.00019
Vanadium (V)-Total	mg/L	<0.0010	0.0017	<0.0010	0.0018
Zinc (Zn)-Total	mg/L	<0.0040	<0.0040	<0.0040	<0.0040
Calcium (Ca)-Dissolved	mg/L	13.9	14.7	13.8	13.7
Magnesium (Mg)-Diss.	mg/L	11.5	12.1	11.5	11.1
Potassium (K)-Dissolved	mg/L	4.09	4.46	4.35	4.22
Sodium (Na)-Dissolved	mg/L	54.9	62.8	61.3	59.7

5. **PART J: ITEM 6**

Water for domestic use was not utilized from Windy Lake during May as the camp at Windy Lake is closed. Drilling was conducted pertaining to regional exploration licence 2BE-HOP0712 and drill water usage numbers and water sources are detailed in Table 2. All water usage for drilling purposes was in compliance with the licence consumption limits.

Table 2. Drill Water Usage in cubic meters (m³), April 2010

Parameters	ORB 21	ORB 22	ORB23	ORB24	GEO 2	GEO 3	Total Usage m ³	2BE-HOP0712
Water Source	Doris Lake	Doris Lake	Doris Lake	Doris Lake	Patch Lake/ Wolverine Lake/ Windy Lake	Patch Lake/ Wolverine Lake	All Water Sources	Compliance Values
Geographical Coordinates	On file	On file	On file	On file	On file	On file		Part J: Item 9
Drilling days	24	31	23	26	21	19		Part J: Item 6
Monthly Cumulative	150	274	223	104	87	150	988	2,480 m ³ monthly
Volume Average (Daily)	4.8	8.8	9.7	4.0	4.1	4.8	6.03	80* m ³ daily
Maximum	16.0	31.0	23.9	34.7	7.7	17.4	-	80 m ³ daily
Minimum	0	0	0	0	0	0	-	80 m ³ daily

6. PART J: ITEM 7

No treated effluent was discharged from the WWTF at monitoring station HOP-2 due to the closure of Windy Lake Camp, and no volumes were measurable at HOP-3. The Land farm no longer exists at HOP-4, and no volumes were pumped at HOP-5 Windy Camp Bulk Fuel Storage or HOP-6 Patch Lake Bulk Fuel Storage during the month as these facilities are frozen. As reported in the September 2009 monthly SNP report, effluent in the Instant berms was transferred to containment tanks and drums for removal and further treatment. All wastes were removed from this berm during an ongoing site cleanup in March – April 2010.

7. PART J: ITEM 8

No sludge was removed from the WWTF during the month of May as the facility is not operational.

INCIDENT REPORTING

There were 2 incidents reported pertaining to the license during the period:

- May 25/10: Level 1 (Insignificant) – Approximately 0.5 m³ of drill cuttings spilled onto the ground adjacent drill hole # 10TDD717 while lifting a mega bag. The spilled material was shoveled back into the mega bag and disposed of appropriately.
- May 29/10: Level 3 (Moderate) – Approximately 135 liters of hydraulic oil spilled beneath Orbit 22 drill at drill hole # 10TDD719 as a result of a loose hose connection on the drill head. The spilled oil and contaminated soil was cleaned up and placed in a 45 gal drum and disposed of appropriately. The fitting was tightened and the drill restored to service.

There has been one (1) incident regarding “blow back” water from drilling operations on Doris Lake during May. This incident, including the quantity and quality of water discharged from the drill hole, is described in more detail in a separate report to be submitted to INAC. The incidents, as they occur are being tracked, sampled and logged and the information is available to the Inspector on request.

Should there be any questions regarding the monthly report for May 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,

for

Chris Hanks

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