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August 5, 2011

Technical Advisor – Mining
Nunavut Water Board
P.O. Box 119
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Re: June 2011 –Monthly Monitoring Report for Water License 2AM-DOH0713 - Revised

Following is the monthly report for June 2011 as required under Doris Water License No. 2AM-DOH0713 Type A. The license was issued on September 19, 2007 and will expire on September 30, 2013. The water license is specific for Mining and Milling and associated uses; the quantity of water usages shall not exceed 480,000 cubic meters annually.

This monthly report provides information on Part D (Conditions Applying to Construction) Item 19, Part E (Conditions applying to Water Use) Item 1, Part G (Conditions Applying to Waste Management and Waste Management Plans) Item 3 and 22 (e), and Part H (Conditions Applying to Modifications). As a result of recent developments within the Doris North project, additional information pertaining to Part J (Conditions Applying to General and Aquatic Effects Monitoring) Parts 12 and 14 is included. The report also contains the relevant monitoring requirements as set out in Schedule J of the licence, plus additional requirements from INAC.

Other conditions stipulated in the license refer specially to mining and milling processes. These facilities have not been constructed at this time. As facilities are constructed and activities commence, the required monitoring programs will be implemented.

1. **Part D: Conditions Applying to Construction**

    a. **Item 7. Construction Monitoring**

Construction monitoring is being undertaken and documented. A summary of this monitoring will be submitted with the annual Construction Monitoring report.

    b. **Item 19. Surface Runoff Effluent Quality Limits**

Surface runoff from construction was sampled by SRK as part of the Waste Rock and Ore, and Quarry Monitoring Management Plans. Results will be included in the annual report.

2. **Part E: Item 1. Conditions Applying to Water Use**

    a. **Water Usage**

Water was used for domestic camp use, underground mining and drilling brine, potable wash cars, all-weather road dust suppression, construction, and geology/surface drilling. Total water usage is detailed in Table 1.

Table 1: Water Usage for Doris North (m^3), June 2011

Parameters	Water Use	2AM-DOH0713
Water Source	Doris Lake	Compliance Values
Geographical Coordinates	On file	Part E: Item 1
Annual Cumulative	15,656.02	480,000 m^3 Annually
Monthly Cumulative	2908.12	-

b. Water Quality Monitoring: Schedule J and Special Requirements

Monthly compliance samples in accordance with Schedule J requirements of the licence were taken from monitoring station ST-7 on June 6/11. Results of the March monitoring are provided in Table 2.

Table 2. Monthly Compliance Sample Results for SNP Monitoring Station ST-7 in mg/L, June 2011

Parameter/SNP Sites	**ST-7**	**Doris: 2AM-DOH0713**
ALS Lab Reference #	L1014116-1	Maximum Average Concentration (mg/L)
Sample Date/Time	June 6/11 @ 09:20	Part G: Item 3
BOD	<2.0	-
Fecal Coliforms	<1	-
Total Oil and Grease	<1.0	-
pH	7.78	-
TSS	<3.0	-
Ammonia-N	<0.050	-
Nitrate-N	<0.050	-
Nitrite-N	<0.050	-
Orthophosphate-P	<0.010	-
Total Phosphate (as Tot P)	<0.027	-
Total Aluminum	0.013	-
Total Arsenic	<0.00040	-
Total Cadmium	<0.000050	-
Total Copper	0.0089	-
Total Chromium	<0.0050	-
Total Iron	0.040	-
Total Mercury	<0.00010	-
Total Molybdenum	<0.0050	-
Total Nickel	<0.0020	-
Total Lead	0.00078	-
Total Selenium	<0.00040	-
Total Silver	<0.00010	-
Total Thallium	<0.00010	-
Total Zinc	0.0117	-
Additional Parameters		
ALS Lab Reference #	L1014236-1	INAC request
Blue-green Algae	195,000 cells/mL	-

3. Part G: Item 3(b) Conditions Applying to Waste Management and Waste Management Plans.

Sampling point ST-8 is located within the Doris Camp Sewage Treatment Plant, which is located directly east of the main building complex. Effluent samples were collected from two separate taps (ST-8#1 and ST-8#2) located on the discharge lines after the UV disinfection system from the tandem sewage treatment plants. The data reported for June at these stations was in compliance values for all parameters. Analytical results are provided in Table 3.

Station ST-9 was not sampled during the month of June due to freezing conditions. HBML questions the value of ST-9 because there is not any direct conductivity between ST-8 and Glenn Lake, but the station will not need to be relocated as a result of the relocation of the ST-8 tundra end-of-pipe discharge. The ST-8 tundra discharge was relocated in June and notification to this effect was provided to the NWB June 19, 2011.

Table 3: Water Quality Data Summary for Monitoring Station ST-8 #1 and ST-8 #2, June 2011

Parameter/SNP Sites	ST-8 # 1	ST-8 # 2	Doris: 2AM-DOH0713
ALS Lab Reference #	L1014116-2	L1014116-3	Maximum Concentration (mg/L)
Sample Date/Time	June 6/11 10:15	June 6/11 10:15	Part G: Item 3 (b)
BOD_5	<2.0	<2.0	80 mg/L
TSS (mg/L)	<3.0	<3.0	100 mg/L
Fecal Coliform	<1	7	10,000 CFU/100mL
pH (pH unit)	7.59	7.69	Between 6-9
Oil & Grease (Visible Sheen)	No	No	No Visible Sheen
Oil & Grease (mg/L)	1.6	1.5	5

4. **Part G: Item 22 (e) Conditions Applying to Waste Management and Waste Management Plans.**

During the month of June, water was discharged from monitoring station ST-5 (Doris Bulk Fuel Storage Facility) following receipt of compliant effluent water quality sample results and a Notification to the Inspector June 7, 2011. A discharge of 196 m^3 occurred on June 17 and 18 to a point on the tundra northwest of the containment berm at 13W 0432905 7559236. Table 4 shows the analytical sampling results for ST-5 (Doris bulk fuel storage facility).

Table 4: Effluent Quality Results from Sampling at ST-5 (Doris Bulk Fuel Storage Facility), June 2011

Parameters	ST-5	Hope Bay: 2AM-DOH0713
ALS Lab Reference #	L1010252-1	Max Average or any grab
Sample Date/Time	May 26/11 15:00	Part G: Item 22(e)
pH	8.2	6.0-9.0
TSS	6	15 mg/L or 30 mg/L
Oil & Grease	1.6	5 mg/L or 10 mg/L
Benzene	<0.00050	0.37 mg/L
Toluene	<0.00050	0.002 mg/L
Ethylbenzene	<0.00050	0.090 mg/L
Lead	0.00043	0.01 mg/L or 0.02 mg/L

Water was not discharged from monitoring station ST-6a (Roberts Bay Fuel Storage and Containment Facility) or at the Robert's Bay fuel storage facility west (ST-6b).

Part G: Conditions applying to Waste Management and Waste Management Plans (Item 3b)

a. Part G: Item 3e (Treated Sewage Effluent Release in cubic meters)

Table 5 shows treated effluent released from the Doris Membrane Plant at SNP ST-8 and the sludge removed and incinerated.

Table 5: Treated Sewage Effluent released in cubic meters (m^3) through Doris Membrane Plant (ST-8), June 2011

Parameters	Effluent Released ST-8 (m^3)	Sludge Volume (m^3)
Annual Cumulative	4708	15.97
Monthly Cumulative	771	2.5

5. **Part J: Conditions Applying to General and Aquatics Effects Monitoring**
   a. **Part J: Item 12d (Tonnages of Waste Rock Stored on the Temporary Waste Rock Pad)**

Tonnages of waste rock material removed from underground and placed on the Temporary Waste Rock Pad to date are detailed in Table 6.

Table 6: Volume (metric tons) of waste rock stored on the Temporary Waste Rock Pad, June 2011

Parameters	Waste Rock on Pad (tonnes)
Waste Stockpile Mass	88,945
Mass added this month	19,188
Mass Removed this Month	0
Total Tonnage	108,133

b. Part J: Item 12g Tail Lake Ice Thickness

Ice thickness was not measured as Tail Lake due to unsafe ice conditions.

c. Part J: Item 14 Thermal Monitoring Program

Thermistor monitoring undertaken during the month of June is provided in Table 7.

Table 7: Temperature Readings from Thermistor Monitoring, June 2011

Drill Hole Number/ Station	Thermistor String Serial Number	Location	Date of Reading	CHANNEL (Degrees Celsius)							
				1	2	3	4	5	6	7	8
SRK-JT1-09	TS2667	Roberts Bay Jetty	June 2/11	-0.20	-0.58	-1.16	-4.10	-5.00	-3.81	-3.37	-6.60
SRK-JT2-09	TS2668	Roberts Bay Jetty	June 2/11	-0.66	-0.80	-0.95	-4.80	-6.39	-4.92	-4.53	-4.50

6. Environmental Incident Reporting

There were four (4) environmental incidents reported during the month of June.

- June 5/11: Insignificant (Level 1) Some hydrocarbon residue noted off Doris Lake Road East of Tail Lake Road junction, possibly from an old drill hole location. Sorbent materials were applied to the area to contain the sheen. The drill hole was remediated with fill material once residues were no longer detectable.
- June 6/11: Minor (Level 2) A Punctured gasoline drum inside the 5M L Tank farm berm potentially contaminated complaint effluent pending discharge from ST-6. Sorbents were deployed to contain and remove the spilled fuel. The berm was not discharged until further sampling was conducted to verify the effluent was not contaminated.
- June 14/11: Insignificant (Level 1) Approx. 1 litre of hydraulic oil spilled as a result of a leak on a diamond drill parked on the parking lot adjacent the mine portal. The contaminated soil/gravel was removed for disposal and the leak on the drill repaired
- June 24/11: Insignificant (Level 1) Approx. 1 litre of diesel oil leaked from a weeping oil line on a Toyo stove in a cabin at Doris Camp. The fuel line was replaced and the contaminated gravel was cleaned up and removed.

Should there be any questions regarding the monthly report for June 2011, please contact Chris Hanks, Director, Environment and Social Responsibility, Hope Bay Mining Limited on phone number: 1-720-917-4489 or email: Chris.Hanks@Newmont.com

Yours sincerely,

Chris Hanks

Digitally signed by Chris Hanks
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Chris Hanks

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