



Hope Bay Mining Ltd.
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April 21, 2010

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0

Attn: Phyllis Beaulieu, Manager of Licensing
Dionne Filiatrault, Executive Director

Dear Ms. Beaulieu and Ms. Filiatrault;

Application for Amendment No. 4 of Water Licence No. 2BE HOP0712 (amendment regarding discharge of water from Quarry A, B and D)

We are pleased to submit three copies of our amendment application No. 4 for Type B Water Licence No. 2BE-HOP0712 to permit drainage from Quarry A, B and D.

Please find the following documents enclosed:

- Water Licence Application form designating this submission as an **AMENDMENT**;
- Executive summary in English (translations were not available at the time of submittal but will follow as soon as they are available);
- *Hope Bay Project Quarry A, B & D Management and Monitoring Plan* prepared by SRK Consulting Engineers and Scientists;
- *Geochemical Characterization of Quarry Materials for the Doris-Windy All-Weather Road, Hope Bay Project* prepared by SRK Consulting Engineers and Scientists; and
- A cheque in the amount of \$60.00 for the application fee and water use fee.

Should you have any questions regarding this submission or require any additional information, please do not hesitate to contact me directly at Chris.Hanks@newmont.com.

Sincerely,

for

Chris Hanks
Director, Environmental & Social Responsibility
Hope Bay Mining Ltd.

cc. Stephanie Autut, NIRB
KIA



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☐ **New**
☐ **Renewal**
☒ **Amendment**
☐ **Assignment**
☐ **Cancellation**

LICENCE NO:

(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE Hope Bay Mining Ltd. 300-889 Harbourside Drive North Vancouver, BC V7P 3S1 Phone: 604 985 2572 Fax: 604 980 0731 E-mail: chris.hanks@newmont.com	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) Phone: Fax: E-mail:
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) Latitude: (68°3'48" N) Longitude: (106°37'12" W) NTS Map Sheet No. <u>77A/03</u> Scale: <u>1:50,000</u>	
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) <u>HBML is seeking to amend 2BE-HOP0712 so that HBML may discharge from Quarry A, B and D water that meets defined licence criteria. The attached Executive Summary provides further detail with respect to this proposed change, and the attached report entitled, "Hope Bay Project Quarry A, B & D Management and Monitoring Plan" prepared by SRK Consulting provides more detail with respect to HBML's proposed criteria.</u>	
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in " bold ")	
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power </div> <div style="width: 48%;"> <input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below): </div> </div>	
Quarry A, B and D See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings	

6. WATER USE

- ☐ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of , or store, water
☒ Other (describe): To discharge water that meets defined licence criteria from Quarry A, B, D

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

Water use ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.) 50 c.m/day camp, 80 c.m/day exploration drilling

Water returned to source
0 m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- ☐ Sewage
 ☐ Waste oil
☐ Solid Waste
 ☐ Greywater
☐ Hazardous
 ☐ Sludges
☐ Bulky Items/Scrap Metal
 ☒ Other (describe): water

Note that no changes are proposed to waste disposal practices - these will continue to be consistent with the current licence terms and conditions.

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)**Land Use Permit**

DIAND ☐ Yes ☒ No If no, date expected _____

Regional Inuit Association ☒ Yes ☐ No If no, date expected _____

Commissioner ☐ Yes ☒ No If no, date expected _____

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.) There will be no significant changes to environmental impacts of the Windy Camp as a result of the proposed changes and increase in water use.

NIRB Screening ☐ Yes ☒ No If no, date expected _____

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?
No

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined? n/a

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Nuna Logistics and Kitnuna Projects : Cambridge Bay - contracted for winter road haulage and maintenance
 Braden Bury Expediting: Yellowknife - expediting services
 SRK Consulting - project engineering
 Rescan Environmental Services - environmental monitoring and environmental analysis
 Geotech Drilling Services Ltd. (Prince George and Vernon, BC) and Forage Orbit Garant Drilling (Val d'Or, QC): - surface exploration drilling contractor
 Great Slave Helicopters: Yellowknife - provide helicopter support as required

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

**Hope Bay Project Management and Monitoring Plan, SRK Consulting (April 2010);
 Geochemical Characterization of Quarry Materials for the Doris-Windy All Weather Road, Hope Bay Project, SRK Consulting (2008).**

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☐ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun/English Summary of Project ☐ Yes ☒ No If no, date expected May 15, 2010

Application fee of \$30.00 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☒ Yes ☐ No If no, date expected _____

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

☐ one year or less (or) ☒ Multi Year

Start Date: May 20, 2007 Completion Date: June 30, 2012

Chris Hanks

Director, Environment
and Social Responsibilityfor Chris Hanks
Signature

April 21, 2010

Name (Print)

Title (Print)

Date

For Nunavut Water Board office use only

APPLICATION FEE

Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____

Executive Summary
Application for Amendment No. 4 of Water Licence No. 2BE HOP0712
Request to Discharge Water from Quarry A, B and D

In this application, Hope Bay Mining Ltd. ("HBML") is requesting that the Nunavut Water Board ("NWB") amend Water Licence No. 2. BE-HOP0712 to permit the discharge of water from Quarry A, Quarry B and Quarry D in the vicinity of Doris and Windy Lake. These quarries will be the source of rock fill materials for construction of the Doris-Windy all-weather road which is required to support further exploration of the Hope Bay belt.

As set out in the attached *Hope Bay Project Quarry A, B & D Management and Monitoring Plan* (SRK 2010), all water entering the quarry as a result of precipitation or snow melt will be retained within the quarry boundaries by ensuring that the quarry floors are sloped toward a natural low area of the quarry floor and, if required, the creation of a quarry sump to collect the waters and settle out suspended solids. In the event that the quarry sump requires pumping, field pH, EC, Eh and ammonia concentration using colorimetric analysis will be conducted and a sample collected before pumping. Field pH, EC, and Eh measurements will also be obtained from a reference site located away from the influence of the quarry, road or other mine related activities. HBML proposes that if the field pH in the sump measures between 6 and 8.5, the EC measures less than (<) 500 $\mu\text{S}/\text{cm}$ and the ammonia concentrations are less than 2.0 mg/L, pumping of the sump will be undertaken. Care will be taken not to disturb settled solids in the bottom of the sump and pumping of the sump will only take place when conditions are suitable. Care will also be taken to ensure that discharged water does not enter fish bearing waters and that the pump discharge is positioned in a manner that minimizes erosion and siltation of the area downstream of the discharge. In the event that the field measurements exceed the specified values for pH, EC or ammonia, the vacuum truck will be used to remove sump water which will then be used to water down the road construction taking care not to discharge the water onto the road surface near stream crossings or any fish bearing waters.

Monitoring and potential discharge points will be established in consultation with the Nunavut Water Board and its technical advisors. All land applied discharges will be performed in a manner that prevents erosion at the point of discharge and downstream and HBML will provide at least 10 days notice to the Inspector prior to any planned discharges. The notice will include the estimated volume proposed for discharge and location.

Quarry materials from Quarry A, B and D were geochemically characterized in 2008 during a larger study of five potential quarry sites at the Hope Bay project site (see *Geochemical Characterization of Quarry Materials for the Doris-Windy All-Weather Road, Hope Bay Project* (SRK 2008), attached). Based on this geochemical characterization program, the material from the three quarries was

consistently non-acid generating, the potential for metal leaching was low and therefore the material is considered suitable to be used as construction material. The Kitikmeot Inuit Association ("KIA") has approved the construction and operation of Quarry A, B and D pursuant to Quarry Permit KTP308Q010 and an archeological survey of the quarries has been conducted and buffers established to ensure the quarry development does not impact any potential archeological sites. Although Quarry A, B and D are not included in 2AM-DOH0713, construction of Quarry A, B and D will proceed in a manner that is consistent with Part D, "Conditions Applying to Construction" of that license and with the existing terms of 2BE-HOP0712.