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- 090408 2BE-HOP0712-AmendmentApplication.pdf



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April 8, 2009

Nunavut Water Board  
PO Box 119  
Gjoa Haven, NU  
X0B 1J0

Attention: Ms. Dionne Filiatrault, Executive Director  
Ms. Phyllis Beaulieu, Manager of Licensing

Dear Sirs and Mesdames:

**Application for Amendment of Water Licence No. 2BE-HOP0712**

This application is for an amendment to 2BE-HOP0712 to allow use of Windy Lake water to provide potable water to Doris Camp on a temporary basis. As explained in our letter of February 24, 2009, this change is necessary on a temporary basis pending modification of the Doris water treatment facility to treat for blue-green algae found in Doris Lake. HBML is preparing a notification of proposed modification under the Doris Type A Water Licence (2AM-DOH0713) to permit the modification of the Doris Lake water treatment facility, which we plan to put in place as soon as practical.

Windy Camp is a seasonal camp and is temporarily closed. Also, the volume of water taken from Windy Lake will not exceed the volumes authorized under Part C, Item 1 of the Windy Camp Water Licence. The water is being transported from Windy Lake to Doris Camp along Winter Road, as authorized under KIA Land Use Licence KTL306F007.

As the need to provide potable water is urgent, please consider our request to act 10 days after notice of the application has been published, as per subsection 55(4) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*.

Enclosed with this letter are the following documents:

- Completed NWB Application Form; and
- \$30 application fee and \$30 water use fee.

Please contact me if you have any additional questions or require any further information to proceed with your consideration of this proposed amendment.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Chris Hanks', with a stylized flourish at the end.

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



Effective June 16, 2006

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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](mailto: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. 77A Scale: 1:500

**4. DESCRIPTION OF UNDERTAKING** (attach plans and drawings)

This application is for an amendment to 2BE-HOP0712 under Part A and Part C to allow use of Windy Lake water for potable water at Doris Camp. Please see proposed amended wording attached.

**5. TYPE OF PRIMARY UNDERTAKING** (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")

- |   |   |
|---|---|
| <input type="checkbox"/> Industrial   | <input type="checkbox"/> Agricultural                           |
| <input checked="" type="checkbox"/> <b>Mining and Milling</b> (includes exploration/drilling) | <input type="checkbox"/> <b>Conservation</b>                    |
| <input type="checkbox"/> <b>Municipal</b> (includes camps/lodges)                             | <input type="checkbox"/> Recreational                           |
| <input type="checkbox"/> Power  | <input type="checkbox"/> <b>Miscellaneous</b> (describe below): |

See Schedule II of *Northwest Territories Waters Regulations* 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):

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

Water use ☒ 100m<sup>3</sup>/day or less  
☐ Greater than 100m<sup>3</sup>/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source  
 \_\_\_\_\_ m<sup>3</sup>/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):

**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.)

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?

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

None.

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

No studies were undertaken specific to this amendment request.

**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 \_\_\_\_\_English attached, translation if required ☒ Yes ☐ No If no, date expected \_\_\_\_\_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 YearStart Date: ASAP Completion Date: Until completion of modification of Doris Camp water treatment system

Chris Hanks

Name (Print)

Director, Environmental  
and Social Responsibility

Title (Print)



Signature

April 8, 2009

Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ \_\_\_\_\_ Pay ID No.: \_\_\_\_\_

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

**Draft Amendment to Licence No. 2BE-HOP0712 (the Hope Bay Regional Exploration Project Type B Water Licence)**

Proposed Amendments

Amend Part A: Scope, Definitions and Enforcement to add paragraph 1(a) as follows:

- “1(a). This Licence also allows, on a temporary basis, for the use of water from Windy Lake at the Doris Camp (authorized under Licence 2AM-DOH0713) pending modification of the water treatment facility for Doris Camp under that licence to address algae in the current Doris Lake source water. The use of water from Windy Lake for domestic camp use at the Doris Camp is not to exceed the volume specified in Part C, paragraph 1 of this Licence.”

Amend Part C: Conditions Applying to Water Use to add paragraph 1(a) as follows:

- “1(a). The licensee may, on a temporary basis, obtain water from Windy Lake for domestic camp use at the Doris Camp (authorized under Licence No. 2AM-DOH0713) pending modification of the Doris water treatment facility under that licence to address algae in the current Doris Lake water source. Water for domestic camp use from Windy Lake, whether for the Windy Camp or the Doris Camp, shall not exceed the volume specified in Part C, paragraph 1 of this Licence.”



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## EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant: Hope Bay Mining Ltd.**

**Licence No: 2BE-HOP0712**

(For NWB Use Only)

### ADMINISTRATIVE INFORMATION

1. Director, Environmental and Social Responsibility : Chris Hanks  
Tel : 720-917-4489 Fax : 604-980-0731 Email : Chris.Hanks@Newmont.com
2. Project Manager: Brian Anderson Tel: 604-904-4490 Fax: 604-980-0731  
Email: Brian.Anderson@Newmont.com
3. Does the applicant hold the necessary property rights?  
**Yes, surface rights are administered by KIA and mineral rights are administered by INAC. Both IOL Exploration Agreements and Crown mineral lease are maintained in good standing.**
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. **No.**
5. Duration of the Project  
☐ One year or less Start and completion dates: \_\_\_\_\_  
☒ Multi Year:

If Multi-Year indicate proposed schedule of on site activities  
Start: **March 11, 2007** Completion: **March 10, 2012**

### CAMP CLASSIFICATION

6. Type of Camp  
☐ Mobile (self-propelled)  
☐ Temporary  
☒ Seasonally Occupied: **Approx Feb. 15 to Oct. 15**  
☐ Permanent  
☐ Other: \_\_\_\_\_



7. What is the design, maximum and expected average population of the camp?  
**Windy Camp accommodates a maximum of 90 personnel. Based on operational needs, the average camp population could fluctuate between an estimated 50 to 60 personnel.**
  
8. Provide history of the site if it has been used in the past.  
**Windy Camp has been operational since 1996 and has served as the main operations base for Hope Bay Mining Ltd. exploration activities on the Hope Bay Belt. This is a licence amendment application.**

## CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

**Not applicable – Amendment Application. Camp is established and the location remains the same.**

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

**Not applicable – Amendment Application. Camp is established.**

11. Is the camp or any aspect of the project located on:



Crown Lands

Commissioners Lands

Inuit Owned Lands

Permit Number (s)/Expiry Date: **ML-4649 / Oct. 12, 2022**

Permit Number (s)/Expiry Date: \_\_\_\_\_

Permit Number (s)/Expiry Date: **KTL303C056 /**

**Jan. 30, 2010**

12. Closest Communities (direction and distance in km):

**Umingmaktok – approx. 50 km west; Cambridge Bay – approx. 100 km north**

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

**Yes. Community consultation tours were conducted in 2005 and 2006, as well, the NIRB hearings for the Doris North Project in January 2006 with attendance of members from local communities, has included collection and discussion of traditional knowledge, updates on activities and future plans. Communities include: Kugluktuk, Cambridge Bay, Taloyoak and Gjoa Haven, Bathurst Inlet and Umingmaktok. Communities and community groups are also aware of HBML programs through the review of annual work plans and reports submitted to KIA. Additional project community tours were held in February and December of 2008.**

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats? **No.**

## PURPOSE OF THE CAMP

15. ☒ Mining (includes exploration drilling)  
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)  
(Omit questions # 16 to 21)  
☐ Other \_\_\_\_\_

16. Activities (check all applicable)

- ☐ Preliminary site visit  
☒ Prospecting  
☒ Geological mapping  
☒ Geophysical survey  
☒ Diamond drilling  
☒ Reverse circulation drilling  
☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)  
☐ Other: \_\_\_\_\_

17. Type of deposit (exploration focus):

- ☐ Lead Zinc  
☐ Diamond  
☒ Gold  
☐ Uranium  
☐ Other: \_\_\_\_\_

## DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling  
☒ Drilling on ice

19. Describe what will be done with drill cuttings? **This is an amendment application, drill cuttings treated as per requirements of the current licence.**

20. Describe what will be done with drill water? **This is an amendment application, drill water treated as per requirements of the current licence.**

21. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable. **Includes the MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable. Calcium chloride in the form of a mixed brine solution will be the only additive used to prevent the drills from freezing within the permafrost. This is an amendment application, all additives used are in line with the requirements of the current licence.**

22. Will any core testing be done on site? Describe. **No.**

## **SPILL CONTINGENCY PLANNING**

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002*. Please include for review. **Previously submitted in Appendix A.**
24. How many spill kits will be on site and where will they be located?  
**Nine (9) spill kits are strategically placed around the Windy Camp area (fuel tanks, airstrip, generator shack, gasoline storage and helicopter pad).**  
  
**Three (3) at Patch Lake – two (2) at the drill shop and one (1) at the fuel farm.**  
  
**One (1) spill kit at Roberts Bay and one (1) spill kit available at each drill.**
25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets. **Please see the previously submitted section 2.2 of the Environmental Protection Plan – Appendix A**  
**DIESEL-P50: Windy Camp: 1 x 70000L AST tank, 1 x 50000L AST tank; Patch Lake: 5 x 70000L AST tanks, 2 x 75000L AST tanks.**  
**TURBO FUEL (JET B): approximately 1000 – 45 gallon drums on the belt. Storage is split between Windy and Boston camp depending on program requirements.**  
**GASOLINE: Windy Camp: 1 x 1243L tidy tank; Patch Lake: 1 x 1243L tidy tank**  
**MSDS sheets are available on site.**

## **WATER SUPPLY AND TREATMENT**

26. Describe the location of water sources.  
**Water is pumped from Windy Lake.**

27. Estimated water use (in cubic metres/day):

☒  
☒  
☐

Domestic Use: **20 m<sup>3</sup>**

Drilling: **80m<sup>3</sup>**

Other: N/A

Water Source: \_\_\_\_\_

Water Source: \_\_\_\_\_

Water Source: \_\_\_\_\_

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:

**No changes from the existing licence. Water is pumped on demand via the pipeline to Windy Lake. The pump intake is screened to meet DFO requirements.**

**Under this amendment, water will be pumped from the lake into a water truck for transport to the Doris Camp. The pump intake is screened to meet DFO requirements.**

**This is a temporary use while a new water treatment plant is installed at the Doris Camp.**

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

**Water will be sampled and analysed for total and Faecal coliform on a weekly basis.**

**Analysis for pH, TSS, conductivity and BOD5 will be done on a monthly basis.**

30. Will drinking water be treated? How? **Yes – UV filter.**

31. Will water be stored on site?

**Water is supplied to Windy Camp at an on-demand basis and not stored on site. Should this change, an application for amendment will be submitted. Water taken to Doris Camp is stored in internal water tanks.**

## WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☒ Camp Sewage (blackwater) **Camp sewage is discharged to an RBC rotodisc treatment plant which was approved by the NWB in 2000. It is then put into drums and taken to Boston camp for disposal.**

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☒ Camp Greywater **All greywater reports to the RBC treatment plant mentioned above. Treated greywater is released over the ridge east of Windy Camp via a 300 m insulated and heat trace line.**

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☒ Solid Waste **Stored onsite and eventually removed from site.**

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☒ Bulky Items/Scrap Metal **Stored onsite and eventually removed from site.**

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☒ Waste Oil/Hazardous Waste **Waste oil will be disposed of in an onsite waste oil burner. Hazardous waste will be packed in drums and removed from site.**

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☒ Empty Barrels/Fuel Drums **Removed from site.**

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☐ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated? **Diesel fired incinerator manufactured by Westland is used. All kitchen waste and combustible material is placed in the incinerator and the ashes are packed into drums to be removed from site.**

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted? **Non combustible waste is packed into drums to be removed from site.**

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable). **Not applicable.**

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? **Not applicable.**

## **OPERATION AND MAINTENANCE**

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?  
**All methods have been in place for a number of years and since this is a licence amendment there are no problems expected with the existing infrastructure. Contingency plans are included in section 7.0 of the MHBL Environment and Protection plan, included with this application.**

## **ABANDONMENT AND RESTORATION**

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site. **See the previously submitted Closure and Reclamation Plan, Appendix B.**

## **BASELINE DATA**

**No baseline information has been collected as a direct requirement of this water licence, however considerable baseline data has been collected as a component of the Doris North Environmental Impact Statement. Environmental and socio-economic and traditional knowledge studies are ongoing and this data is being used to create a baseline dataset for the Hope Bay Belt.**

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

- ☒ Physical Environment (Landscape and Terrain, Air, Water, etc.)
- ☒ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- ☒ Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
- ☐ Other: \_\_\_\_\_

**See the Final Environmental Impact Statement, Doris North Project, Nunavut, Canada, submitted by Miramar Hope Bay Ltd. October 2005 to the Nunavut Impact Review Board.**

## REGULATORY INFORMATION

**HBML has access to all documents listed below.**

40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:
- ✓ ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
  - ✓ NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
  - ✓ *Northwest Territories Waters Regulations, 1993*
  - ✓ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
  - ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings
  - ✓ RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
  - ✓ RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
  - ✓ NWTWB - Guidelines for Contingency Planning
  - ✓ *Canadian Environmental Protection Act, 1999 (CEPA)*
  - ✓ *Fisheries Act, RS 1985 - s.34, 35, 36 and 37*
  - ✓ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
  - ✓ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
  - ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
  - ✓ Public Health Act - Camp Sanitation Regulations
  - ✓ Public Health Act - Water Supply Regulations
  - ✓ *Territorial Lands Act and Territorial Land Use Regulations; Updated 2000*



**Application for Amendment: Licence 2BE-HOP0712**  
**Executive Summary**

Hope Bay Mining Ltd. holds Water Licence 2BE-HOP0712 which authorizes withdrawals of water from Windy Lake for the Windy Camp and for drilling purposes. This is an application for an amendment to the scope of 2BE-HOP0712 to allow water from Windy Lake to be used as a potable water source for Doris Camp pending completion of modification of the Doris Camp water treatment system. The Doris Camp is licensed to use water from Doris Lake but that source has become non-potable as a result of natural algal growth in Doris Lake. Modifications to the Doris Camp water treatment system are being made to address this issue.

The amount of water withdrawn from Windy Lake will stay within the limits authorized under Water Licence 2BE-HOP0712.