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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

**WATER LICENCE
APPLICATION FORM**

Application for: (check one)

☐ New ☒ Amendment ☐ Renewal ☐ Assignment

LICENCE NO:

(for NWB use only)

**1. NAME AND MAILING ADDRESS OF
APPLICANT/LICENSEE**

Roche Bay plc.

Chandler & Cooper
Suite 203, 626 Tumiit Plaza
PO Box 2021
Iqaluit, Nunavut X0A 0H0 Canada

AND

Advanced Explorations Inc.

Box 227
81 Jessie Avenue
Campbelville, Ontario L0P 1B0 Canada

Phone: 514-969-0426

Fax: 514-221-2348

e-mail: candace@rochebay.com

**2. ADDRESS OF CORPORATE
OFFICE IN CANADA (if applicable)**

Roche Bay plc.

Chandler & Cooper
Suite 203, 626 Tumiit Plaza
PO Box 2021
Iqaluit, Nunavut X0A 0H0 Canada

AND

Advanced Explorations Inc.

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3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)

The ore at Roche Bay is found in two families of deposits on the Melville Peninsula. One is in the west of the peninsula and the other is in the east (on Foxe Basin). In the east, there are two levels of understanding of the geology and metallurgy. There is earlier work based on surface mapping, channel sampling and trenching. In addition, the Adler and B deposits in the east have been systematically core drilled, and there is one drill hole in the C deposit. The core has been systematically sampled, assayed and studied by the Ontario Research Foundation. The goal of our undertaking is to more systematically drill holes on the Adler, B and C deposits.

Latitude: 68°15' – 68°30' Longitude: 82°00' – 84°00' NTS Map No. 047A06 Scale 1:50,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

Roche Bay plc will be conducting systematic drilling on Crown lease number 2953. This lease number is also known as the C ore body and the area totals 1983 acres. We intend to drill approximately 75-90 holes to an average depth of 300-400 meters. Our goal is to extract approximately 25,000-30,000 meters of core and chip samples for geological modeling and resource definition. This activity is necessary to prove the resource and verify that the product specification can be met.

Primary access to the site will be via cargo plane from Yellowknife to Roche Bay and by scheduled sealift. Ground transportation will make use of ATVs and trucks using the old roads and trails going from the airstrip to the camp site and ore bodies. Personnel will fly via commercial airline to Hall Beach and a boat, helicopter or fixed wing (depending on weather) will transport them from Hall Beach to Roche Bay.

The activities will commence in April 2007, with the construction of the camp by local contractors. Drilling will commence in May and continue through until November, as weather permits, and additional core will be flown out. In July, a barge will be chartered to bring in equipment. The camp and operations will shut down in December and will reopen in April 2008.

The drill will be set so that it will recirculate water as our purpose is to keep our water usage to a minimum. Any water that does need to be disposed will first go through a tank whose purpose is to enable the suspended solids to settle to the bottom of the tank before being spilled.

A camp using 20 Weatherhaven modules for a maximum of 34 people will be set up on top of the C ore body. This camp includes 1 camp supervisor, 1 geologist, 2 geology students, 3 sample prep people, 1 prospector, 3 drill foremen, 2 OFACCs, 2 helicopter pilots, 1 fixed wing pilot, 2 Inuit camp attendants, 8 Boart Longyear drillers, 4 Inuit drillers, 1 Inuit core cutter, and space for 4 visitors.

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

- | | |
|---|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Remote/Tourism Camps |
| <input type="checkbox"/> Mine Development | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> Advanced Exploration | <input type="checkbox"/> Power |
| <input checked="" type="checkbox"/> Exploratory Drilling | <input type="checkbox"/> Other (describe)_____ |

6. WATER USE

- | | |
|---|--|
| <input checked="" type="checkbox"/> To obtain water | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To modify the bed or bank of a watercourse | <input type="checkbox"/> Flood control |
| <input type="checkbox"/> To alter the flow of , or store, water | <input type="checkbox"/> Other (describe): |
| <input type="checkbox"/> To cross a watercourse | |

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

Approximately 2500G/day or 3456.48 cubic meters/year. The water will be returned without TTS since we will use a settling tank and then returned to the source.

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Waste oil |
| <input type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | <input checked="" type="checkbox"/> Sludges |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Other (describe)_____ |

Sewage: Incinerated.

Scrap metal: Flown/boated out from the site.

Waste oil: Put in 45 G barrels, identified and flown out from the site.

Greywater: Will be run into a pond.
Sludges: Will be put in a sump.

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

Land Use Permit

DIAND X Yes No If no, date expected _____

Regional Inuit Association X 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 X 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.

11. (Continued)

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)

Matrix Aviation Solutions Inc. and Helicopter Solutions Inc., #8 Yellowknife Airport, Yellowknife, NT, X1A 3T2: Helicopter management and turn-key logistics.
Boart Longyear Inc., 310 Niven St., Haileybury, ON: Drilling Services
Bakers Narrows Air Service, Box 337, Flin Flon, MA, R8A 1N1: Fixed wing air service

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

[Preliminary Report On The Hydrology of the Roche Bay Area](#) January 1984

Prepared by Borealis Exploration Ltd. (0.75MB)

[Initial Environmental Evaluation](#) April 5, 1981

Prepared by Borealis Exploration Ltd. (3.7MB)

[Addenda to the Initial Environmental Evaluation](#) June 1981-December 1982

Prepared by Borealis Exploration Ltd. (4.23MB)

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

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

Inuktitut/English Summary of Project X Yes ___ No
If no, date expected _____

Application fee \$30.00 (c/o of Receiver General for Canada) X Yes ___ No
If no, date expected _____

15. PROPOSED TIME SCHEDULE

___ Annual (or) X Multi Year

Start Date: April 1, 2006

Completion Date: August 2008.

Candace Ramcharan

VP Business Developement



Name (Print)

Title (Print)

Signature

Date

For Nunavut Water Board use only

APPLICATION FEE

Amount: \$ _____

Receipt No.:

WATER USE DEPOSIT

Amount: \$ _____

Receipt No.: