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P.O. BOX 119
GJOA HAVEN, NT X0E 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Roche Bay plc and Advanced Explorations Inc.

Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Gary Williams Tel: 416-570-0629 Fax: 514-221-2348
   E-mail: gwilliams007@sympatico.ca.

2. Project Manager: Dirk Swartz Tel: 647-801-4435 Fax: 514-221-2348
   E-mail: dirk@rochebay.com

3. Does the applicant hold the necessary property rights?

   Yes.

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
   [ ] Annual
   [X] Multi Year:
   If Multi-Year indicate proposed schedule of on site activities
   Start: April 1, 2006 Completion: August 31, 2008

CAMP CLASSIFICATION

6. Type of Camp
   [ ] Mobile (self-propelled)
   [ ] Temporary
   [X] Seasonally Occupied: From April 15-Oct. 31 each year._____
   [ ] Permanent
   [ ] Other:_____

7. What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

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 which will fluctuate depending on the time of year. Certain crews will be working on a 6 weeks on, 2 weeks off rotation.

8. Provide history of the site if it has been used in the past.

In the early 80s this lease was drilled by Borealis Exploration.

CAMP LOCATION

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

The camp will be located on a banded magnetite iron formation more than 300m from any water body. Except for the eastern extremity, the area is comprised of an Archaean granite-greenstone terrain within the Churchill Structural Province of the Canadian Shield. In most areas, the outcrop is fresh and well exposed in the barren glaciated Arctic terrain and as a result, geological features are readily observed. Narrow elongated belts of metavolcanic and metasedimentary rocks cut across the peninsula in the northeasterly direction.

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.

The location of the site was selected because of its proximity to the primary ore body to be drilled (the C deposit). The site has been used in the early 80s when initial exploratory drilling had been done. Assistance from the Regional Inuit Association Land Manager was not sought.

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

[**X**] Crown Lands Permit Number: Lease #2952-2953 Expiry Date: July 23, 2021

[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____

[ ] Inuit Owned Lands Permit Number (s)/Expiry Date: _____

12. Closest Communities (distance in km):

Hall Beach 60km.

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

The Mayor of Hall Beach, the local Hunters and Trappers Association and the Qikiqtani Inuit Organization. We have done several community consultations.

14. Will the project have impacts on traditional water use areas used by the nearby communities?

No.

Will the project have impacts on local fish and wildlife habitats?

No.

PURPOSE OF THE CAMP

15. ☑ Mining
○ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
○Other _____ (Omit questions # 16 to 22)

16.
○ 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:
○ Lead Zinc
○ Diamond
○ Gold
○ Uranium
☑ Other: Magnetite

DRILLING INFORMATION

18. Drilling Activities
☑ Land Based drilling
○ Drilling on ice

19. Describe what will be done with drill cuttings?

The drill cuttings will be settled out in containment troughs and will be filtered out from any water discharge.

20. Describe what will be done with drill water?

Drill water will be re-circulated. After drilling is completed the water will be settled of all total suspended solids and then released.

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.

We do not plan on using any drill additives at this time. Should this plan change, we will use the standard additives that are used in the region and we will submit the appropriate MSDS sheets as soon as possible.

22. Will any core testing be done on site? Describe.

No core testing will be done on site. The only thing that will be done on site is identification and shipping.

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.

Yes, see attached "Oil and Hazardous Material Spill Contingency Plan".

24. How many spill kits will be on site and where will they be located?

There will be at least 7 spill kits available on site. One will travel with the oil drums when they are being transported, one at the camp, one at the fuel cache, one with each drill, one on the helicopter and one on the fixed wing plane.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

We will store 20-30 208-litre barrels of gasoline in oil drums, 200 208-litre barrels of diesel fuel and 208 litres of standard automotive engine oil. Attached are the MSDS sheets. Types; diesel will be stored in bladder tanks, 30,000L
Gas: 5,000L max stored in bladder tanks
JetA1: bladdertank, 30,000L
Propane: 20, 100lbs tanks
Kerosene: 200-300L, storage in plastic containers they come in (5L)

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

There is a creek that bisects the C ore body and a lake to the west of the C ore body. The lake will be the source of the local water supply.

27. Estimated demand (in L/day * person):

- ☑ Domestic Use: 750L per day Water Source: Lake
- ☑ Drilling Units: 18 000L Water Source: Lake
- ○ Other: _____ Water Source: _____

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe.

The intake for camp operations will be a 45L/minute hand pump with portable containers. The intake will be equipped with a mesh screen to prevent fish entrapment.

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

Drinking water will be flown in. No local water will be sourced.

30. Will drinking water be treated? How?

Water will be flown in.

31. Will water be stored on site?

There will be water stored on site in troughs for drilling.

WASTE TREATMENT AND DISPOSAL

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

☑ Camp Sewage (blackwater)

Sewage for ten people for 16 weeks. It will be incinerated in propane toilets.

☑ Camp Greywater

For ten people for 16 weeks. Greywater will run into a pond.

○ Solid Waste

☑ Bulky Items/Scrap Metal

Approximately 100kg. This will be disposed of in the Hall Beach dump.

☑ Waste Oil/Hazardous Waste

Approximately 100 litres. This will be put in 45G barrels, identified and flown out of the site.

☑ Empty Barrels/Fuel Drums

These will be cleaned, flattened and disposed in the Hall Beach dump.

○ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?

The only incineration system will be that of the propane toilet which will incinerate sewage.

34. Where and how will non-combustible waste be disposed of ? If in a municipality in Nunavut, has authorization been granted?

Non-combustible waste will be disposed of at the Hall Beach dump. No authorization has been acquired as of yet.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).

No sump. Propane toilet.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

No.

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?

The water supply and waste treatment and disposal methods have been used and proven in cold climate. There are no known O&M problems that may occur. The only contingency plan that is in place is the attached oil spill contingency plan.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

Restoration of the old Borealis camp will be done. All equipment and supplies will be removed during camp tear-down.

BASELINE DATA

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

☑ Physical Environment (Landscape and Terrain, Air, Water, etc.)

Regional Lake Sediment And Water Geochemical Reconnaissance Data 1977
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)

National Geochemical Reconnaissance, early 1980s
Geological Survey of Canada
Preliminary Report On The Hydrology of the Roche Bay Area January 1984
Prepared by Borealis Exploration Ltd. (0.75MB)

☑ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)

Preliminary Assessment of Potential Environmental Effects of the Borealis Iron Ore Development Proposal on Birds of Melville Peninsula, July 1983
Prepared by Peter N. Boothroyd, Canadian Wildlife Service

Mammals of the Melville Peninsula and the Possibility of Their Disturbance by the Proposed Mine and Roche Bay, early 1980s

☑ Socio-Economic Environment (Archaeology, Land and Resources Use,
The Socio-Economic Impacts of the Roche Bay Magnetite Project January 1983
Prepared by Borealis Exploration Ltd. and its consultants

☑ Demographics, Social and Culture Patterns, etc.)
The Socio-Economic Impacts of the Roche Bay Magnetite Project January 1983
Prepared by Borealis Exploration Ltd. and its consultants

○ Other: For any other baseline information see the Project Library at http://www.rochebay.com

REGULATORY INFORMATION

40. Do you have a copy of

☑ Article 13 - Nunavut Land Claims Agreement
☑ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
☑ NWB - Interim Rules of Practice and Procedure for Public Hearings
☑ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
☑ NWTWB - Guidelines for Contingency Planning
☑ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
☑ Fisheries Act - s.35
☑ RWED - Environment Protection- Spill Contingency Regulations
☑ Canadian Drinking Water Quality Guidelines
☑ Public Health Act Camp Sanitation Regulations
☑ Public Health Act Water Supply Regulations

- ☑ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.