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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Advanced Explorations Inc. Roche Bay Project **Licence No:**_____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Gary Williams Tel: (416) 203-0057 ext. 224 Fax: (416) 203-0059
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2. Project Manager: Steve Roebuck Tel: (416) 203-0057 ext. 222 Fax: (416) 203-0059
   E-mail: steve@advanced-exploration.com

3. Does the applicant hold the necessary property rights? Yes (Mineral Claims AEI 1 – 7)
   INAC land use permit # N2007C0033
   (a request for amendment or new INAC license to include camp pending)

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: Each year March 30 (approx.) Completion: Each year Sept. 30 (approx.)

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☒ Temporary
   ☒ Seasonally Occupied: April 1 to Sept. 30 (approx.)
   ☐ Permanent
   ☐ Other:_____

7. What is the design, maximum and expected average population of the camp?
The Peninsula camp will be similar in design and materials as AEI's Roche Bay Camp where Weatherhaven tents are used. The initial design for the camp will be for approximately 60 people. This will account for staff related to geology, drilling, helicopter, camp maintenance, logistics and consultants. Maximum camp size will depend on the success and needs of the overall Roche Bay area exploration program. (Please refer to attached camp schematic)

8. Provide history of the site if it has been used in the past.
The Peninsula area has been used for exploration activities in the early 1980s, when the airstrip and a camp site were established. The airstrip has been used during the current round of exploration (staring in 2006), and the old camp site is now used for core storage – this is also the proposed location of the new camp. The nearby beach area is also used to offload supplies coming by barge, and for short term storage of these bulk materials.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
The proposed camp location is on an area of higher ground, adjacent to one of the larger lakes at the base of the Peninsula. It is located on a sandy portion of the Peninsula, with typical arctic vegetation. The area has undergone flora and fauna studies as well as archaeological investigations as part of the overall Roche Bay project environmental baseline study – refer to appended reports for more details on the biogeographical and geomorphological features, as well as water bodies, of the immediate area.

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 camp location was selected for its proximity to a large lake, current core storage facilities, and the airstrip and beach logistic areas. In addition, the area is the site of an historical camp facility in the 1980s, which will minimize additional environmental impacts of camp relocation. The proposed site location was seen by senior Inuit residents who were working for AEI, who approved the site selected; it was not chosen with the assistance of the Regional Inuit Association Land Manager.

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

☒ Crown Lands Permit Number (s)/Expiry Date: N2007C0033 / Sept. 17, 2010 (new application for camp and extension pending)
☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
☐ Inuit Owned Lands Permit Number (s)/Expiry Date: _____

12. Closest Communities (direction and distance in km):
The closest communities are Hall Beach (located approximately 65 kms ENE of the Peninsula) and Igloolik (located approximately 105 kms NE of the Peninsula.)

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
AEI has liaisoned with nearby communities regarding their overall exploration program, of which this is a part.

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?
AEI is not aware of traditional water use areas on the Peninsula. The amount of water used by the project will not impact local fish and wildlife habitats, based on observations from AEI's Roche Bay camp.

PURPOSE OF THE CAMP

15.
- [x] 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
- [x] Geological mapping
- [x] Geophysical survey
- [ ] Diamond drilling
- [ ] Reverse circulation drilling
- [ ] Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- [x] Other: geotechnical drilling

17. Type of deposit (exploration focus):

- [ ] Lead Zinc
- [ ] Diamond
- [ ] Gold
- [ ] Uranium
- [x] Other: Iron ore

DRILLING INFORMATION

18. Drilling Activities

- [x] Land Based drilling
- [ ] Drilling on ice

19. Describe what will be done with drill cuttings?
At each drill site, the water return will be filtered through a PolyDrill system to remove drill cuttings. The cuttings will then be used to reclaim any washout areas around their source drill-holes, as required.

20. Describe what will be done with drill water?
Water return will be filtered through a PolyDrill system to remove drill cuttings, with filtered water directed towards a sump and away from surface water bodies. Calcium chloride will be

the only drill additive used during the program. Water use will be similar to that used in AEI's previous Roche Bay programs, and taken from local lakes.

21. List the brand names and constituents of the drill additives to be used? Include MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.
(Please refer to attached Spill Plan for MSDS on drill additives, etc.)

22. Will any core testing be done on site? Describe.
Core will be geologically logged, with the iron formation intervals cut into 2 pieces with a core saw. Half of the sample will then be flown off-site for crushing, with a subsample of the crushed material forwarded to a commercial laboratory for analytical testing. The other half of the sample will remain in the core boxes and stored on site.

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.
(Please refer to attached Spill Contingency Plan)

24. How many spill kits will be on site and where will they be located?
A spill kit will be located at each drill, at the beach fuel storage area and at the camp.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
(Please refer to attached Spill Contingency Plan)

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
Water sources for camp and drilling operations will be the nearest lake of sufficient size to provide the water required without impacting the lake level or flow.

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

☐ Domestic Use: 7.5 Water Source: see above
☐ Drilling: 90 Water Source: see above
☐ Other: _____ 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:
The water intake for the camp will be approximately 7.5 cubic metres/day, based on the average used per person per day at AEI's current Roche Bay camp. The intake will be equipped with the required mesh screen.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Drinking water will be largely flown into camp. Water taken from local surface water sources and used for drinking or cooking will be sampled on a regular basis and tested on-site for health parameters.
Additional samples will be sent to a commercial laboratory for additional health parameters. (Please refer to attached sample SGS Environmental Services Analytical Determinations)

30. Will drinking water be treated? How?
Drinking water will not be treated on-site.

31. Will water be stored on site?
Water will be stored on-site for daily use in closed tanks, approved for potable water use.

WASTE TREATMENT AND DISPOSAL

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

☒ Camp Sewage (blackwater)

incinerated, ashes stored in barrels and removed from site, shipped to proper disposal facility

☒ Camp Greywater

grease trap will be in place to filter out food waste and other material before it is released to a sump and directed away from surface water

☒ Solid Waste

will be incinerated, ashes stored in barrels and removed from site, shipped to proper disposal facility

☒ Bulky Items/Scrap Metal

removed from site and shipped to proper disposal facility

☒ Waste Oil/Hazardous Waste

waste oil will be put in 45g drums, identified and removed from site for proper disposal

☒ Empty Barrels/Fuel Drums

empty barrels will be removed from site for proper disposal (some will hold refuse and ash)

☒ Other:

Drill water return will be filtered to remove drill cuttings, run into a sump, and be redirected away from water source

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
An approved dual chambered, forced-air, fuel fired incinerator will be used. See above for wastes to be incinerated.

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 removed from site and shipped to a approved waste facility

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
To be determined once camp plans are finalized. (similar to AEI's current Roche Bay camp)

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
No leachate will be produced on-site. The proposed site is within the area that currently undergoes routine monitoring of subwatersheds adjacent to the camp at their discharge points on a monthly basis during the summer months, as part of the longer term environmental monitoring program. (Please refer to the attached page for an example of the parameters being analysed for)

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 water supply and waste treatment and disposal methods to be used at the Peninsula camp have been in place at AEI's current Roche Bay camp since 2007.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
(Please refer to the attached Abandonment and Restoration Plan)

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.)
- ☒ 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: _____

The Peninsula is part of the area covered by an environmental baseline monitoring program that has been conducted since 2006. Studies undertaken include:

- Surface water monitoring
- Archaeology studies
- Fisheries studies
- Vegetation studies
- Caribou studies
- Breeding bird and raptor studies
- TEK and socio-ec studies as part of the overall Roche Bay project

Refer to attached reports for details of this work to date.

REGULATORY INFORMATION

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