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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: __Martin Sharp_____Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Martin SharpTel: 780-492-5249Fax: 780-492-2030 E-mail:Martin.Sharp@ualberta.ca

2. Project Manager: Martin Sharp Tel: as above Fax: _as above E-mail: _as above

3. Does the applicant hold the necessary property rights?
   The scientific research is conducted on Crown land.

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: _____
   X Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: ___2004_____ Completion:___Uncertain_____

CAMP CLASSIFICATION

6. Type of Camp

   Mobile (self-propelled)
   X Temporary
   Seasonally Occupied: _____
   ☐ Permanent
   ☐ Other: _____

7. What is the design, maximum and expected average population of the camp?
   Camps consist of one non-permanent cook tent and occasionally two personal sleep tents. The maximum population is four people with an average population of two people.

8. Provide history of the site if it has been used in the past.
   A temporary base camp is established every year on the summit of the ice cap to store equipment, food, and emergency supplies. Temporary working camps at various locations on the ice cap consist of 2 people and are occupied only for a few days at a time.

CAMP LOCATION

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

The base camp is located approximately 10 km west of the summit of the Devon ice cap. Temporary working camps are mainly located on the southern portion of the ice cap and on the Belcher glacier located on the NE side of the ice cap. Jones Sounds lies to the North, Baffin Bay to the east and Lancaster Sound is south of the Devon ice cap.

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.

Camp locations are selected by the proximity to the scientific research locations, safety and accessibility of aircraft. There was no assistance from the Regional Inuit Association Land Manager.

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

Camps are not occupied for long enough for a DIAND land use permit to be needed.

- X Crown Lands Permit Number (s)/Expiry Date: _____
- ☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
- ☐ Inuit Owned Lands Permit Number (s)/Expiry Date: _____

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

Grise Fiord - 125 km to the North
Reslote Bay - 400 km to the West

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

Every year we obtain a research license from the Nunavut Research Institute. The licensing process includes consultation of nearby communities.

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 (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- X Other __**Scientific research** _____

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)
X Other: __**Glaciological Research**_____

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?

20. Describe what will be done with drill water?

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.

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

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.

Any fuel that is accidentally spilled on the ice cap will be transferred to sealed garbage containers (plastic garbage bags) and transported to the nearest disposal site as soon as possible.

24. How many spill kits will be on site and where will they be located? **Each camp has a spill kit**

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

6 - 45 gallon barrels of gasoline
2 - 45 gallon barrels of diesel
15 - 40 lb bottles of propane
45 gallon barrels are stored on the glacier surface.
Bottle of propane are stored on a wooden cache.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water sources include water from melting snow or from supra-glacial melt water channels.

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

X Domestic Use: <0.005 Water Source: snow and melt streams__
☐ Drilling: _____ Water Source: _____
☐ 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:

N/A

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

No

30. Will drinking water be treated? How?

No

31. Will water be stored on site? **No**

WASTE TREATMENT AND DISPOSAL

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

X Camp Sewage (blackwater)

In spring sewage is collected, frozen and removed from site for disposal; In summer, this is not always possible, in which case all toilet paper is burned and waste is disposed of down crevasses

X Camp Greywater

Greywater is disposed of by pouring into crevasses (<5L per day max)

X Solid Waste

All solid waste is bagged and removed from site

☐ Bulky Items/Scrap Metal

☐ Waste Oil/Hazardous Waste

X Empty Barrels/Fuel Drums

All empty fuel barrels are caped and flown back to PCSP in Resolute Bay

☐ Other:

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

N/A

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
All solid waste is bagged and removed from site

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

N/A

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?

N/A

ABANDONMENT AND RESTORATION

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

There will be no disturbance at any site other than monitoring equipment that will remain in place until 2011. This equipment will then be removed and transported back to Resolute Bay at that time. Other signs of activities on the ice are rapidly removed by snow and ice melt or buried by snowfall.

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: _____

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