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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Scott Lamoureux, Queen's University Licence No: _____

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Scott Lamoureux, 613-533-6033, fax 613-533-6122, scott.lamoureux@queensu.ca
2. Project Manager: same as 1.
3. Does the applicant hold the necessary property rights? Crown land use permit, annual renewal
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. N/A
5. Duration of the Project

☐ One year or less Start and completion dates: 2010-2013
☒ Multi Year:

If Multi-Year indicate proposed schedule of on site activities
Start: May 25 Completion: August 20

CAMP CLASSIFICATION

6. Type of Camp
☐ Mobile (self-propelled)
☐ Temporary
☒ Seasonally Occupied: May-August only
☐ Permanent
☐ Other: _____
7. What is the design, maximum and expected average population of the camp? Max 10 people, average 5 people.
8. Provide history of the site if it has been used in the past. Used as seasonal research camp since 2003

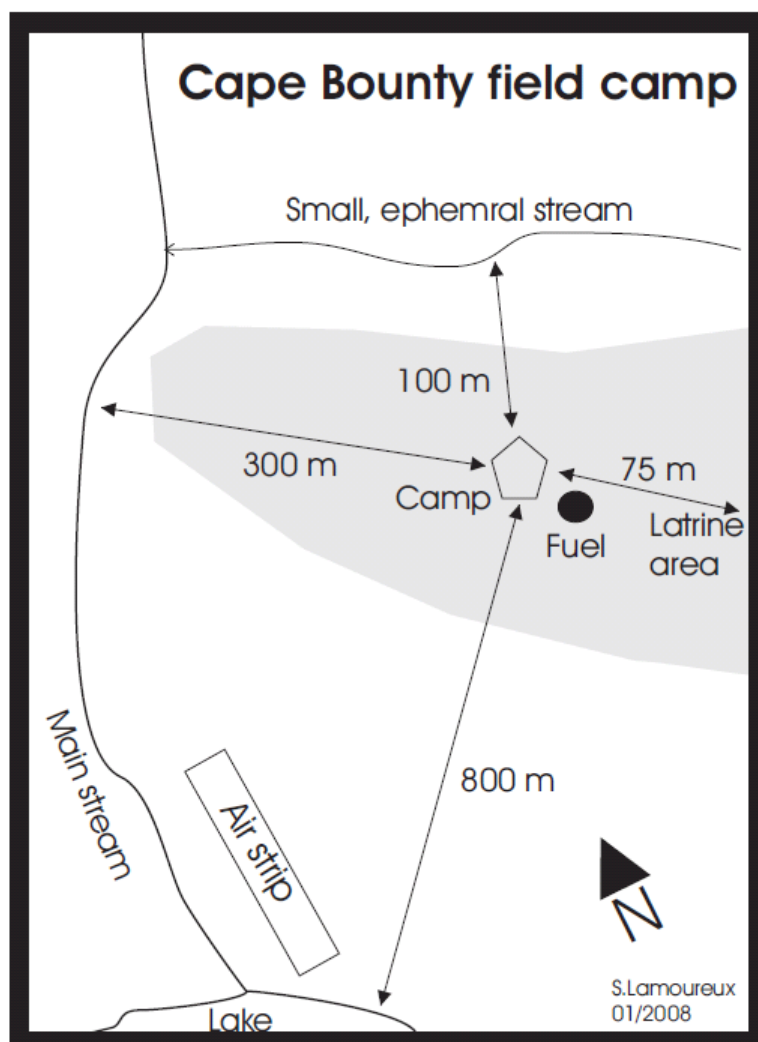
CAMP LOCATION

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

Camp is on low ridge composed of unvegetated gravel, > 100 m from seasonal streams and surface water bodies.

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.

Selected on the basis of research priorities. Location at site was away from water on durable substrate, and to minimize potential conflict with polar bears at coast. Land manager was not consulted.



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

- ☒ Crown Lands Permit Number (s)/Expiry Date: N2003J0007, March 9, 2011
☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
☐ Inuit Owned Lands Permit Number (s)/Expiry Date: _____

12. Closest Communities (direction and distance in km): Resolute, 400 km

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

Yes, we consult with Resolute HTO and Hamlet regularly. Community members have worked at the site.

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?

There are no traditional water use areas in the area, based on discussions with Resolute community. The work will have no measurable impact on fish and wildlife habitat.

PURPOSE OF THE CAMP

15. ☐ Mining (includes exploration drilling)
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☒ Other 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)
☒ Other: Water measurements and sampling, soil sampling, sediment sampling

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
☐ Diamond
☐ Gold
☐ Uranium
☒ Other: soil

DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling
☒ Drilling on ice

19. Describe what will be done with drill cuttings?

Sediment recovered from lake bottom is returned to laboratory. No cuttings or drilling fluids are produced.

20. Describe what will be done with drill water?

None are used

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.

Not applicable

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

Not applicable

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.

Attached

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

Two spill kits are located at the fuel storage site.

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

Diesel fuel, up to 5 barrels
Gasoline, up to 30 gallons in 5 gallon jerry cans
Propane, up to 8 X 25 lb containers

All liquid fuel is stored at camp, on a containment tarp with capacity of 100 gallons. Empty containers are returned to Resolute promptly.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Potable water is obtained by a) lake water (3 km away) in spring via a auger hole and b) from a small stream 150 m away during summer.

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

X Domestic Use: 0.025 cumec/day Water Source: lake or stream
☐ 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:

Water is obtained by hand with 1 litre bottles, transferred to 20 l plastic jugs and carried to camp. No structures are used.

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

No. Visual inspection for sediment or other debris is carried out during collection.

30. Will drinking water be treated? How?

No.

31. Will water be stored on site?

Up to 80 litres will be stored in camp at a time.

WASTE TREATMENT AND DISPOSAL

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

X Camp Sewage (blackwater)

Blackwater is limited to individuals and disposed via shallow pit at latrine site, > 100 m from surface water.

X Camp Greywater

Greywater is <10 l per day and disposed in a shallow sump pit with a screen to collect food debris.

X Solid Waste

Solid waste (human waste) is limited to individuals and disposed via shallow pit at latrine site, > 100 m from surface water. Garbage is collected and returned to Resolute.

X Bulky Items/Scrap Metal

Returned to Resolute for disposal

☐ Waste Oil/Hazardous Waste

X Empty Barrels/Fuel Drums

Returned to Resolute for disposal

☐ Other:

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

Based on the advice of the INAC land use inspector, no incineration will be carried out.

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

Resolute landfill. Authorization not required for domestic waste, and no hazardous waste is generated.

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

Greywater sump is 25 m from main camp, 30 cm deep and above the permafrost table. It holds approximately 10 l and is located 150 m from the nearest surface water. Latrine pit is of similar dimensions, and located 200 m from the nearest surface water.

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

None will be carried out.

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 use at this location since 2003. They follow INAC land use standards and are appropriate for the low amount of domestic water consumption.

ABANDONMENT AND RESTORATION

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

All waste and camp materials are removed seasonally, with the exception of the main tent and fuel which are stored over the winter.

At the end of the field camp, all materials will be removed, and any soil disturbance will be restored.

BASELINE DATA

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

- X Physical Environment (Landscape and Terrain, Air, Water, etc.)
- X 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 central activity of this research is to evaluate the impact of climate change on the land and water environment. Extensive published materials are available for this location on request.