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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: __Sean Paul Alcide Desjardins, Dept. of Anthropology, McGill University

Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _Applicant____Tel: _514-443-0082___ Fax: 514-398-7476____
E-mail:_sean.desjardins@mail.mcgill.ca_____

2. Project Manager:_Applicant_____Tel: _514-443-0082_____Fax: 514-398-7476___
E-mail: _sean.desjardins@mail.mcgill.ca_____

3. Does the applicant hold the necessary property rights?

Application for a general land use permit submitted to Qikiqtani Inuit Association, April 2012.

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: __07/03/2012 to 08/12/2012__
☐ Multi Year:

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

CAMP CLASSIFICATION

6. Type of Camp

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

7. What is the design, maximum and expected average population of the camp?

The field camp will consist of no more than eight canvas tents (six single-person sleeping tents, and two general-use communal tents); no permanent structures will be erected. For the duration of the project, the camp population will consist of six (6) individuals, for a total of 252 person-days.

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

The camp site area has not been used previously.

CAMP LOCATION

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

The proposed camp site is located along a series of raised beach ridges approximately 400 meters northwest of a Thule and historic Inuit archaeological site (Pingiqqalik, NgHd-1).

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 proposed camp site was selected because of its proximity to 1) several unnamed streams and freshwater ponds where freshwater will be collected for field crew use, and 2) the Thule and historic Inuit archaeological site (NgHd-1) where fieldwork will be conducted.

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

☐	Crown Lands	Permit Number (s)/Expiry Date: _____
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
☒	Inuit Owned Lands	Permit Number (s)/Expiry Date: _Applied 04/2012___

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

Igloolik, NU, is located approximately 37 kilometers northwest of the field camp; Hall Beach is located approximately 36 kilometers southeast of the field camp.

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

The municipal offices of Hall Beach and Igloolik have been notified in writing of the proposed work. My introductory letters (in both Inuktitut and English) to these stakeholders outlining early plans for the project are attached to the NWB application.

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?

Neither local water sources nor local wildlife habitats will be adversely affected by camp site or fieldwork activities.

PURPOSE OF THE CAMP

15.
- ☐ Mining (includes exploration drilling)
- ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ☒ Other __Archaeological research/fieldwork_____

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: __Small-scale investigation for prehistoric materials._____

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☒ Other: __Arifacts, cultural material_____

DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling
- ☐ Drilling on ice

[NOT APPLICABLE—no drilling will be conducted]

19. Describe what will be done with drill cuttings?

[NOT APPLICABLE]

20. Describe what will be done with drill water?

[NOT APPLICABLE]

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.

The spill contingency plan is attached to the NWB application.

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

N/A (please see the attached spill contingency plan)

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

- Gasoline – 3 plastic jerry cans (5 gallons each) will be stored on tarps in a utility tent, well away from open flames.
- Propane – 6 metal cylinders (100 lbs each) will be stored outdoors, underneath weighted tarps, and well away from potential heat sources and open flames.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water sources to be used by field crew at the camp site consist of small freshwater ponds located across the site area (see topographic map), in addition to a freshwater stream, located a short distance northwest of the camp site.

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

☒ Domestic Use: <1 cubic meter (approx. 6-7 gallons per day)
Water Source: local ponds and 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?

Small water testing kits will be used to periodically test the purity of the freshwater sources used.

30. Will drinking water be treated? How?

Water meant for drinking will be run through microfilters.

31. Will water be stored on site?

Water will be stored in collapsible plastic buckets at the camp site for no more than a day or two before supplies are replenished.

WASTE TREATMENT AND DISPOSAL

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

☒ Camp Sewage (blackwater)

Human waste from a small camping toilet will be buried. The amount is variable; human waste from six individuals over the course of approximately five weeks.

☐ Camp Greywater

☒ Solid Waste

Refuse from camp activities (food packages, wrappings, etc.) will be periodically burned in a metal drum brought to the field site for that purpose.

☐ Bulky Items/Scrap Metal

☐ Waste Oil/Hazardous Waste

☐ Empty Barrels/Fuel Drums

☐ Other:

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

Trash from daily camp activities (food packages, wrappings, etc.) will be periodically burned in a metal drum brought to the field site for that purpose.

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

All material that cannot be safely or practically burned will be packed and shipped off site with the field crew at the close of fieldwork; no materials will be left behind either at the camp site or the work 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/NA

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?

These methods have proven safe and effective in remote field conditions in the Canadian Arctic.

ABANDONMENT AND RESTORATION

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

No permanent structures will be constructed at either the camp or field work sites; nor will the general topography of the land in the area be affected by our activities. Upon our abandonment of the site area, the field and camp site locales will be as we found them upon our arrival.

BASELINE DATA

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

Background research has been conducted on the area. The most relevant references are listed below.

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

Dredge, L. A.
1995 Quarternary Geology of Northern Melville Peninsula, NWT. *Geological Survey of Canada Bulletin* 484:114.

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

Freeman, M. M. R.
1984 Arctic Ecosystems. In *Arctic*, edited by David Damas, pp. 36-48. Handbook of North American Indians, Vol. 5. William C. Sturtevant, general editor, Smithsonian Institution: Washington, D.C.

Gaston, A. J., S. A. Smith, R. Saunders, G. I. Storm, J. A. Whitney
2007 Birds and Marine Mammals in Southwestern Foxe Basin, Nunavut, Canada. *Polar Record* 43(224):33-47.

☒ Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)

Crowe, K. J.
1970 A cultural geography of Northern Foxe Basin, N. W. T. Department of Indian Affairs and Northern Development, Ottawa.

Mary-Rousselière, G.
1954 The Archaeological Site of Pingerkalik. *Journal Eskimo* 6: 11-15.

☐ 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