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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: _Dr. Lynn J. Gillespie_____Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: __NA_____Tel: _____ Fax: _____E-mail:_____

2. Project Managers:
Lynn Gillespie_ Tel: _613 364 4075__Fax: _613 364 4027__E-mail: lgillespie@mus-nature.ca
Laurie Consaul Tel: : _613 364 4074__Fax: _613 364 4027__E-mail: lconsaul@mus-nature.ca

3. Does the applicant hold the necessary property rights? NO, not applicable

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, not applicable

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: ____July 2008_____ Completion:_Sept. 2013_____

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?
The average population of the camp will be 3 persons, maximum 6 persons. Accommodation will be in 4 to 6 small backpacking dome tents. This includes 2 to 4 sleeping tents, a kitchen tent and a work tent. No permanent or large temporary structures will be erected; thus impact will be minimal. All items associated with the project will be removed at the end of each camp stay.

8. Provide history of the site if it has been used in the past.
During each season, we plan to visit approximately 3 different sites. Each year we visit a different location. Therefore, each site is different, and may or may not have been occupied in the past. We generally do not revisit the same site during a 5 year period.

CAMP LOCATION

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

During each season, we plan to visit approximately 3 different sites in one geographic region. Each year we visit a different region (e.g. S Victoria Island was visited in 2008).

Sites requested for the 2008 field season are:

Austin Bay, near Oterkvik Point: 68 32N, 112 30W, NTS map 087A, 1:250000
Johansen Bay: 68 35N, 111 07W, NTS map 077B, 1:250000
Sinclair Creek: 68 44N, 108 58W, NTS map 077B, 1:250000
and near Cambridge Bay: 68 06N, 105 03 10W, NTS map 077D, 1:250000

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.

We choose sites based on a lack of botanical knowledge of a given area, on the presence of particular plant species, and on accessibility. We use such information as: locality data on herbarium specimens, as well as vegetation and geological map data. Assistance from the Regional Inuit Association Land Manager was not sought, but the Association was consulted during licensing. Sites have generally not been previously "used" except for sites in the vicinity of hamlets most of which have been previously visited by botanists.

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

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

Please not that we do have a Nunavut Research License and a Nunavut Wildlife Research Permit.

12. Closest Communities (direction and distance in km):
Cambridge Bay (150-250 km east)
Kugluktuk (100-250 km southwest)

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

This was done as part of the Nunavut Research License and Nunavut Wildlife Research Permit applications.

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?

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 _To carry out plant inventory studies_____

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: ___Plant collecting_____

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

not applicable

- ☐ Land Based drilling
- ☐ Drilling on ice

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.

not applicable

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

not applicable

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

not applicable

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Small lakes and rivers near camps

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

- [X] Domestic Use: 50 litres per day Water Source: lakes and rivers
- [ ] 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 intake is limited to a) hand dipping using cup or pot and b) hand held water filters with bore < 1 cm.

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

NO, this has not been done as it is not practical. We filter our drinking water.

30. Will drinking water be treated? How?

We filter our drinking water using a backpacking water filter.

31. Will water be stored on site?

Yes, we store water in one or two 20 L containers.

WASTE TREATMENT AND DISPOSAL

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

- ✔ Camp Sewage (blackwater)

___sewage is buried in small quantities (100-300g) well away from camp and water sources. (100-300g / day per person) _____

- ✔ Camp Greywater

__Greywater from washing and dishes equals approximately 5 litres per day and is disposed in small quantities at a distance from our camp well away from water sources_____

- ✔ Solid Waste

____Solid waste (garbage) is stored in garbage bags sealed in boxes and carried out of camp (one small garbage bag per week)_____

- ☐ Bulky Items/Scrap Metal

_____none_____

- ☐ Waste Oil/Hazardous Waste

_____none_____

- ☐ Empty Barrels/Fuel Drums

__We have varying needs for barrels and fuel drums. When we do need these, they are supplied through the Polar Continental Shelf Project (PCSP). Empty barrels and fuel drums are retrieved promptly by PCSP after use.

☐ Other:

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

We do not burn garbage. All garbage is removed from camp.

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

We have only very small quantities of domestic refuse (one small bag per week). It is carried out of the camp, and deposited in a garbage depot in the community.

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

Not applicable

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

Not applicable

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?

Not applicable

ABANDONMENT AND RESTORATION

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

At each campsite we remove everything and leave the site as we found it.
We use portable stoves, so there are no fire pits.

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.)

- [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: _____

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