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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: _____ **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel: _____ Fax: _____ E-mail: _____

2. Project Manager: KATHY YOUNG Tel: 416-736-2100 ext. 22371 Fax: 416-736-5988 E-mail: klyoung@yorku.ca

3. Does the applicant hold the necessary property rights?
Yes. Obtained permit from CWS and Nunavut Research Board (Licence # 02 048 10R-M)

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: 2007 Completion: 2015

CAMP CLASSIFICATION

6. Type of Camp

☐ Mobile (self-propelled)
☐ Temporary
☑ Seasonally Occupied: May to August
☐ Permanent
☐ Other: _____

7. What is the design, maximum and expected average population of the camp?
Average of 4 people (maximum 5) at a scientific research camp.

8. Provide history of the site if it has been used in the past.
The site has been used by Dr. Kathy Young for the past 3 summer seasons (2007 - 2009)

CAMP LOCATION

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

A permanent research station is located on top of a hill north of the wetland. The Good Sir River is located about 0.5 km east of the camp.

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.

A permanent research station (cabin) was built at Polar Bear Pass in 1968 by the Canadian Museum of Nature. The site has been used throughout the years by various scientific research camps.

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: _____

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

Resolute Bay. 120 km northwest of Resolute Bay.

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

Yes.

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)
- ☑ 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)
- ☑ Other: scientific research

17. Type of deposit (exploration focus):

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

DRILLING INFORMATION Not applicable.

18. Drilling Activities

- ☐ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

N/A

20. Describe what will be done with drill water?

N/A

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.

N/A

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

N/A

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.

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

Will follow PCSP protocol.

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

Several barrels of diesel and gasoline and some small propane tanks stored on site according to Polar Continental Shelf Project (PCSP) protocol Please refer to PCSP.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The Good Sir River is located about 0.5 km east of the campsite.

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

- [x] Domestic Use: < 99 m³/day Water Source: Good Sir River
- [ ] 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 will be collected from the river in portable water jugs. There are no fish in the Good Sir River.

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?

Yes. Water will be obtained (as needed) from the Good Sir River and stored in the cabin in portable water jugs.

WASTE TREATMENT AND DISPOSAL

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

☑ Camp Sewage (blackwater)

double bagged, human waste, stored outside and removed throughout season on return flights to Resolute. ~ 2 bags/week.

☑ Camp Greywater

dishwater, ~0.5 m^3/day, filtered and disposed in a dug pit on campsite, covered before departure.

☑ Solid Waste

camp garbage, ~2 bags/week, double bagged and stored in a fibre-glass structure located on campsite, Continually removed throughout season on return flights to Resolute.

☐ Bulky Items/Scrap Metal

☑ Waste Oil/Hazardous Waste

waste oil, ~0.25 L/week or less, stored outside at camp site in closed, labelled containers and removed throughout the season on return flights to Resolute.

☑ Empty Barrels/Fuel Drums

Gasoline, diesel, several drums, stored on site and removed throughout the season on return flights to Resolute.

☐ Other:

* all waste remaining on site at the end of the camp season is removed on the final flight back to PCSP at Resolute. A few drums of gas and diesel are left on site for incoming Inuit camps

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?

It will be stored within a fibre-glass structure located on the campsite and it will be removed via plane when the camp closes.

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?

Follow guidelines set by NRI, CWS, PCSP.

ABANDONMENT AND RESTORATION

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

Remove all garbage, sewage and waste oil. Remove all barrels if requested by PCSP.

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