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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: __Indian and Northern Affairs Canada__ **Licence No:** __1BR-SIM0813_____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _same as below_Tel: _____ Fax: _____E-mail:_____

2. Project Manager:_Lou Spagnuolo_Tel: _819-997-7247_Fax: _819-934-9229_E-mail: _lou.spagnuolo@inac.gc.ca_____

3. Does the applicant hold the necessary property rights? Yes

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: _November 25, 2008_____Completion:_November 30, 2013_____

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☐ Temporary
   ✔ Seasonally Occupied: __June 15th to September 15th (CAM-D)
   March 15th to April 30th (CAM-3)
   ☐ Permanent
   ☐ Other:_____

7. What is the design, maximum and expected average population of the camp?
   The maximum capacity of the CAM-D camp is 50 people with an expected average of 35.
   The maximum capacity of the CAM-3 camp is 14 people with an expected average of 8.

8. Provide history of the site if it has been used in the past.
   Please see the CAM-D Remedial Action Plan submitted with original application.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
CAM-D is located near the middle of Boothia Peninsula, 4.5 km south of Simpson Lake at a latitude of 68o35' N and a longitude of 91o57 W. CAM-D is approximately half way between Shepherd Bay and Pelly Bay, 120 km southeast of Taloyoak and 80km west of the community of Kugaaruk. The main station buildings are located in the Ross Hills at an elevation of 370 m. The terrain is composed of rolling grassy hills cut by rock outcrops.

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 CAM-D camp will be sited in an area that has been previously disturbed, identified as borrow area #2 (please see Appendix A – Map of Proposed Camp and Sewage Treatment Plant).

The CAM-3 camp will also be sited in an area that has been previously disturbed (please see Appendix C - Location of Proposed Camp at CAM-3).

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

✔	Crown Lands	Permit Number (s)/Expiry Date: _#N2008X0004_____
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
✔	Inuit Owned Lands	Permit Number (s)/Expiry Date: _ KTX09F001_____

12. Closest Communities (direction and distance in km):
The CAM-D site is approximately 120 km southeast of Taloyoak and 80 km west of Kugaaruk,.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?
Community consultations, with the Hamlet Council, Hunters and Trappers Organization and community residents were completed in April 2006 in Kugaaruk, Taloyoak, and Gjoa Haven. The results of the assessment and the various remediation options being considered for the site were presented. These meetings were used to solicit input as to the community's preferred remedial option. Please see public consultation records appended to the CAM-D Remedial Action Plan submitted with the original application for additional details.

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?
The project is not expected to have negative impacts on traditional water use areas or local fish and wildlife habitats. Please see the CAM-D Environmental Screening submitted with the original application for additional details

PURPOSE OF THE CAMP

15. ☐ Mining (includes exploration drilling)
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)

(Omit questions # 16 to 21)

✔ Other _Site Remediation_____

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: _____

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.
Please see the CAM-D Spill Contingency Plan

24. How many spill kits will be on site and where will they be located?
Please see the CAM-D Spill Contingency Plan

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.
Please see the CAM-D Contractor Work Methodology Plan

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.
The water required for the CAM-D camp and remediation, estimated at 18 cubic metres/day, will be taken from the unnamed river emptying into the Murchison River (please see Appendix A – Map of Proposed Camp and Sewage Treatment Plant).

The water required for the CAM-3 camp, estimated at 2 cubic metres/day, will be taken from the Water Supply Lake (please see Appendix C - Location of Proposed Camp at CAM-3).

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

- ✔ Domestic Use: ___20_____ Water Source: __see above_____
- ☐ 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 for the two camps will be pumped using a small horsepower pump equipped with a small mesh screen. The pump will be placed at least 30 m from any water body and a spill kit will be sited near the pump.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Commercially bottled water that meets Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) will be used as drinking water until it is demonstrated that the local source meets the Health Canada GCDWQ. Water will be sampled at the water supply sources and at the distribution source and submitted for laboratory analysis. Prior to consumption, at least two consecutive sets of analytical test results will demonstrate that the water source meets the Health Canada GCDWQ. Water will be sampled and analyzed weekly as long as the camp is operational.

30. Will drinking water be treated? How?
If on-site water in its current state does not meet Health Canada GCDWQ, it will be treated to meet the Health Canada GCDWQ. The appropriate equipment, supplies and materials required to treat the water in accordance with the Health Canada GCDWQ will be determined.

31. Will water be stored on site?
Yes, small amounts of water will be stored to provide a source for the daily use of the camp.

WASTE TREATMENT AND DISPOSAL

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

- ✔ Camp Sewage (blackwater)

All wastewater from the CAM-D camp will be treated using the proposed wastewater treatment system (please see Appendix B1 through B5 for information on the wastewater treatment system). The CAM-3 camp is equipped with two electric incinerating toilets that do not require water. Ash will be collected and disposed according to the analytical results. All remaining wastewater from the CAM-3 camp will be directed to a sump located behind the camp (please see Appendix C - Location of Proposed Camp at CAM-3).

- ✔ Camp Greywater

All wastewater from the CAM-D camp will be treated using the proposed wastewater treatment system (please see Appendix B1 through B5 for information on the wastewater treatment system). The CAM-3 camp is equipped with two electric incinerating toilets that do not require water. Ash will be collected and disposed according to the analytical results. All remaining wastewater from the CAM-3 camp will be directed to a sump located behind the camp (please see Appendix C - Location of Proposed Camp at CAM-3).

- ✔ Solid Waste

Domestic waste will be temporarily stored and burned daily using an incinerator. Ash will be disposed according to the analytical results.

- ✔ Bulky Items/Scrap Metal

Metal and other non-hazardous debris that are not suitable for incineration will be disposed of in the constructed non-hazardous landfill.

- ✔ Waste Oil/Hazardous Waste

Used oils will be incinerated on site using a Smart Ash drum burner. Residual will be disposed according to analytical results. Used antifreeze, as other products that cannot be incinerated will be containerized in drums and shipped back to southern recycling and disposal facilities.

- ✔ Empty Barrels/Fuel Drums

Please see response in original application.

- ☐ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?
Three (3) Smart Ash cyclonic barrel burners will be on site. The Smart Ash incinerator is a system composed of a high efficiency blower mounted on a standard 205 l (45 Gallon) barrel. It

promotes complete combustion of liquid/solid waste without any air emissions. The burner specifications are presented in the CAM-D Contractor Work Methodology Plan.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
Non-combustible solid waste will be stored in a secure waste disposal bin. The contents of the waste disposal bin will be transported and disposed of in the on-site non hazardous waste landfill on an as required basis.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).
Please see response in original application.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?
Please see response in original application.

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?
Please see Appendix B1 through B5 for information on the wastewater treatment system.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
The camps will be decommissioned and all equipment removed from the area by the summer of 2012. Please see the CAM-D Remedial Action Plan submitted with the original application.

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