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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Phil Warren**
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2. Project Manager: Lieutenant Colonel Daniel Paquet
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3. Does the applicant hold the necessary property rights?
Yes, INAC Land Use Permit #N2003X0013.

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
[✓] Annual
[ ] Multi Year
If Multi-Year indicate proposed schedule of on site activities:
Start: July 1, 2005 Completion: September 30, 2005

CAMP CLASSIFICATION

6. Type of Camp
[ ] Mobile (self-propelled)
[✓] Temporary
[ ] Seasonally Occupied:
[ ] Permanent
[ ] Other:

7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

The average population of the camp will be approximately 20 people including the site investigation team, equipment operators, wildlife monitors and the camp outfitter staff. The work program will be executed in stages with personnel shift changes upon completion of each stage. The maximum population of the camp is anticipated to be 25 people.

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

Until the late 1980's, the site was operated as a Distant Early Warning System (DEW Line) site by the Canadian and American governments. The FOX-2 site was an intermediate station designated FOX-2. No other development of the site has been recorded.

CAMP LOCATION

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

The camp will be located near the hangar adjacent to the airstrip. The landscape is characterized by an extensive bedrock upland comprised of highly deformed Precambrian metasediments. There are two large lakes located in separate valleys north of the access road between the upper site and the airstrip. These lakes drain toward the sea via streams through the grassed lowlands.

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 camp and/or associated storage areas are to be located in areas of previous disturbance to minimize damage to previously undisturbed areas. The exact location of the camp will not be available until the contract has been awarded.

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

[✓] Crown Lands	Permit Number (s)/Expiry Date:	N2003X0013
[ ] Commissioners Lands	Permit Number (s)/Expiry Date:	
[ ] Inuit Owned Lands	Permit Number (s)/Expiry Date:	

12. Closest Communities (distance in km):

The closest community to FOX-2 is Hall Beach, approximately 250 km to the west.

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

Typically, community consultations are held after the site investigation in preparation for the clean up.

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 impacts on local fish and wildlife habitats, or on traditional water use areas, are anticipated.

PURPOSE OF THE CAMP

15. [___] Mining
[___] Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
[✓] Other - Environmental Cleanup (Omit questions # 16 to 22)

16. [___] Preliminary Site Visit
[___] Prospecting
[___] Geological Mapping
[___] Geophysical Survey
[___] Diamond Drilling
[___] Reverse Circulation Drilling
[___] Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
[___] Other: _____

N/A

17. Type of deposit:
[___] Lead Zinc
[___] Diamond
[___] Gold
[___] Uranium
[___] Other: _____

N/A

DRILLING INFORMATION

18. Drilling Activities
[___] Land Based Drilling
[___] Drilling on Ice

N/A

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. Does the proponent have a spill contingency plan in place? Please include for review.

Diesel and gasoline may be used during the site investigation of the DEW Line sites. As fuels are usually stored and transferred in barrels of 205 litres or smaller capacity, any spill quantity would likely be small. In the event of a spill, protection of human health and safety is paramount. Contamination of personnel involved in clean up is a real possibility as is contamination of the surrounding workplace and environment. The individual discovering a spill shall:

- Ensure personnel are appropriately trained.
- Provide materials and equipment necessary for adequate response to fuel spills, such as mini-excavators for creating earthen dykes and hydrocarbon absorbent booms.
- Warn people in the immediate vicinity and evacuate the area if necessary.
- Wear protective clothing as required for handling spills.
- Isolate and eliminate all ignition sources.
- Identify the spilled material if possible, and take all safety precautions before approaching it.
- Attempt to immediately stop the leakage and contain the spill, if safe to do so.
- Make every effort to contain the spill by dyking with earth or other barriers on land and containment booms on water.
- Report to the Field Team Leader the spill location, type of material, volume and extent, status of spill (direction of movement), and prevailing meteorological conditions.
- Follow all applicable federal/ territorial regulations and guidelines or the disposal of spill materials.
- Document all events and actions taken. Include information required by applicable regulations and guidelines.
- Notify appropriate government agencies using the contact list. Report spills immediately on the 24-Hour Spill Report Lone (867) 920-8130.

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

The spill kit will be located within the camp and will consist, at minimum, of the following items:

- Absorbent, oil (7kg bag) – 12
- Salvage drum (85 gal) – 2
- Shovel – 2
- Gloves, rubber lined – 1 pair
- Wheelbarrow - 1

A more detailed list of spill kit items can be made available after award of the contract.

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

Material Safety Data Sheets can be made available after award of the contract. The Contractor is required to comply with the requirements of Workplace Hazardous Materials Information System (WHMIS), which includes the provision of MSDS information.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The location of the water supply lake is shown on Sketch 101, attached.

27. Estimated demand (in L/day/person):

[✓]	Domestic Use:	150 L/person/day	Water Source:	Water supply lake
[ ]	Drilling Units:	N/A	Water Source:	
[ ]	Other:	N/A	Water Source:	

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

Water will be pumped into a holding tank mounted on a trailer from the water supply lake and transferred to a tank at the camp area. All water intake hoses will be equipped with screens with a mesh size of 2.5 millimetres or less to prevent the intake of fish.

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

Since the camp is of a short duration, bottled water will be brought in for drinking.

30. Will drinking water be treated? How?

N/A

31. Will water be stored on site?

Non-drinking water will be stored at the camp in a mobile holding tank.

WASTE TREATMENT AND DISPOSAL

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

☐ Camp Sewage (blackwater)

Sewage will be discharged into a pit and backfilled with granular material.

☐ Camp Greywater

Greywater from camp operations will be discharged to a pit and buried a minimum of 30 metres from the camp or any natural drainage course or water body.

☐ Solid Waste

Domestic and other non-hazardous waste will be incinerated and the residue will be buried on-site.

☐ Bulky Items/Scrap Metal

All camp equipment and facilities are to be removed at the completion of the work. Large or cumbersome items will be packaged and stored in an on-site building such as the Hangar.

☐ Waste Oil/Hazardous Waste

N/A

☐ Empty Barrels/Fuel Drums

Empty barrels/fuel drums will be removed from site or stored in one of the buildings for removal during the overall site clean up.

☐ Other:

N/A

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

Domestic and nonhazardous wastes will be incinerated in an enclosed container such as an empty 205 litre barrel.

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

Non-combustable wastes will be packaged and stored in the hangar for disposal during the overall site clean up. Disposal will likely be in a new, engineered on-site landfill or transport to a southern disposal facility.

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

N/A

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

N/A

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?

The water supply and disposal methods have been used during the investigation of 17 DEW Line sites, which are typically of 3 week to 6 week duration. No outstanding problems were discovered during the operation of these camps.

ABANDONMENT AND RESTORATION

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

Upon completion of the work program, all contractor equipment, camp infrastructure (if used), and materials no longer required at the site will be demobilized. The requirement for the contractor to

undertake these decommissioning activities is a contractual obligation written into the project specifications.

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:

Soil and water samples will be collected as part of the site investigation.

REGULATORY INFORMATION

40. Do you have a copy of

- ☐ Article 13 - Nunavut Land Claims Agreement
- ☐ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ☐ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ☐ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ☐ NWTWB - Guidelines for Contingency Planning
- ☐ DFO - Freshwater Intake End of Pipe Fish Screen Guideline Fisheries Act - s.35
- ☐ RWED - Environment Protection- Spill Contingency Regulations
- ☐ Canadian Drinking Water Quality Guidelines
- ☐ Public Health Act Camp Sanitation Regulations
- ☐ Public Health Act Water Supply Regulations
- ☐ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.