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NUNAVUT WATER BOARD

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EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Defence Construction Canada

Licence No: _____

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Scott Hamilton**
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2. Project Manager: Daniel Paquet
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3. Does the applicant hold the necessary property rights?
Yes, the Department of National Defence holds a reserve on the property.

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, 2003

Completion: October 30, 2003

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?

It is expected there will be a maximum of 15 people on-site for a period of 2 weeks.

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

The site was a former Distant Early Warning (DEW) Line site, which was used from 1955 to 1993 to provide radar surveillance of the northern approaches to the North American air space. This now inactive chain of radar stations, at approximately 70 degrees latitude, stretches several thousand kilometres across the breadth of the Arctic. The DEW Line originally consisted of 42 sites in Canada, but was reduced to half of this number in 1963. The 21 sites decommissioned in 1963 are now the responsibility of the Department of Indian Affairs and Northern Development. The remaining 21 sites are the responsibility of the Department of National Defence.

In March 1985, Canada and the United States agreed to modernize the North American Air Defence System by closing the 21 remaining DND DEW Line sites and building the North Warning System (NWS). The DEW Line Clean Up (DLCU) focuses on closing out the former DEW Line sites, including the remediation of chemically contaminated soils, the stabilization of landfill areas and the demolition/disposal of surplus infrastructure and debris. A monitoring program will be carried out after the clean up has been completed.

CAMP LOCATION

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

See Appendix I.

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:

<input checked="" type="checkbox"/> Crown Lands	Permit Number (s)/Expiry Date:	_____
<input type="checkbox"/> Commissioners Lands	Permit Number (s)/Expiry Date:	_____
<input type="checkbox"/> 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?

A meeting was held with representatives of Environment Canada, Indian and Northern Affairs Canada, Nunavut Water Board and the Department of National Defence in February 2003 to discuss and receive comments on the proposed scope of work.

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. See Appendix II.

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 the enclosed figures in Appendix III.

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

<input checked="" type="checkbox"/> Domestic Use:	<u>100 L/person/day</u>	Water Source:	<u>Water supply lake</u>
<input type="checkbox"/> Drilling Units:	<u>N/A</u>	Water Source:	<u></u>
<input type="checkbox"/> Other:	<u>N/A</u>	Water Source:	<u></u>

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

33. Please describe incineration system if used on site. What types of wastes will be incinerated? Domestic and non-hazardous 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-combustible wastes will be packaged and stored in an on-site building 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. Contingency Plans are in Appendix II.

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:

See Appendix IV.

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.