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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: Imad Jaradat Tel: 613-996-1094 Fax: 613-996-9847 E-mail: Imad.Jaradat@dcc-cdc.gc.ca
2. Project Manager: David Eagles Tel: 613-943-7950 Fax: 613-996-9847 E-mail: David.Eagles@dcc-cdc.gc.ca
3. Does the applicant hold the necessary property rights? Yes, the land is a DND reserve.
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
☐ One year or less Start and completion dates: August 2011-September 2013
☒ Multi Year:

If Multi-Year indicate proposed schedule of on site activities

Mobilization – August 2011

Construction – July-August 2012; July-August 2013

Demobilization – September 2013

CAMP CLASSIFICATION

6. Type of Camp
☐ Mobile (self-propelled)
☒ Temporary
☐ Seasonally Occupied: _____
☐ Permanent
☐ Other: _____

7. What is the design, maximum and expected average population of the camp?

The camp is required to support approximately 60 people for 75-90 days for each of 2 years. (weather dependent).

8. Provide history of the site if it has been used in the past.
FOX-4 is a former DEW Line site that was closed in the early 1990's, with remediation completed in 1999. Landfill monitoring has been completed in a number of years since the completion of remediation in 1999.

CAMP LOCATION

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

The camp will be located on the Airstrip Apron (see Drawing 101).

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 was located in this area because of it's proximity to the Airstrip and ease of access for setting up the camp.

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

<input checked="" type="checkbox"/> Crown Lands	Permit Number (s)/Expiry Date: <u>N2010X0009, expiry</u>
<u>August 31, 2011</u>	
<input type="checkbox"/> Commissioners Lands	Permit Number (s)/Expiry Date: _____
<input type="checkbox"/> Inuit Owned Lands	Permit Number (s)/Expiry Date: _____

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

The closest communities to FOX-4 are Qikiqtarjuaq and Clyde River, approximately 150 km north and south of FOX-4, respectively.

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

Notification of the proposed work is being completed through the NTI. Additional community consultations are being completed at Qikiqtarjuaq, Clyde River and Pangnirtung during the time period from February 28 to March 4, 2011.

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 completion of additional remedial work is expected to have a positive impact on the area.

PURPOSE OF THE CAMP

15. ☐ Mining (includes exploration drilling)
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☒ Other 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: Landfill and contaminated soil remediation; construction of engineered landfills and a landfarm.

17. Type of deposit (exploration focus):

- ☐ 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. 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.

See attached Spill Contingency Plan.

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

The main spill kit will be located at the camp and small spill kits will be provided in the vehicles.

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

There will be approximately 300,000 litres of diesel fuel and 100,000 litres of gasoline for use at the site. It is anticipated that the successful contractor will bring double-walled 18,000 l capacity tanks for storage.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water will be extracted from the summer water supply lake (see Drawing 101).

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

☒ Domestic Use: 18m³/day Water Source: water supply lake
☐ 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 extracted using a pump and hose fitted with a screen to prevent entrapment of fish and stored in a tank at the camp.

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

Water quality will be sampled and analyzed for the Canadian Drinking Water Quality Guidelines at least once per week.

30. Will drinking water be treated? How?

Water will only be treated if required. If required, it will be filtered and treated with iodine and/or by boiling.

31. Will water be stored on site?

Water will be stored on-site in a tank.

WASTE TREATMENT AND DISPOSAL

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

✓ Camp Sewage (blackwater): sewage will be disposed of in a two-cell lagoon.

✓ Camp Greywater: Greywater generated will be disposed of in the sewage lagoon.

✓ Solid Waste: Any non-hazardous solid wastes generated from the camp will be disposed of in the Non-Hazardous

✓ Bulky Items/Scrap Metal: Any bulk items will be disposed of in the Non-Hazardous Waste Landfill or shipped off-site for disposal.

☐ Waste Oil/Hazardous Waste

✓ Empty Barrels/Fuel Drums: Will be removed from site.

☐ Other:

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?
n/a
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?
Leachate monitoring will not be completed.

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?

There are no anticipated issues or impacts associated with the work.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.
Abandonment and restoration activities have already been completed at this site. A maintenance assessment was completed to determine what if any additional remedial activities were required for the site to be in compliance with the DND-NTI Cooperation Agreement, which was not yet in place at the time of the original clean up. The overall project is one of abandonment and restoration. All camp equipment used during the clean up will be removed upon completion.

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: _____

n/a

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