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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

## EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant:** Aboriginal Affairs and Northern Development Canada (AANDC)

**Licence No:** \_\_\_\_\_  
(For NWB Use Only)

### ADMINISTRATIVE INFORMATION

1. Environment Manager: N/A Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_
2. Project Manager: Mark Yetman Tel: 867-975-4733 Fax: 867-975-4736  
E-mail: mark.yetman@aandc-aadnc.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.  
  
**Yes**
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: March/April 2013 Completion: March/April 2014

### CAMP CLASSIFICATION

6. Type of Camp  
  
☐ Mobile (self-propelled)  
☒ Temporary  
☒ Seasonally Occupied: June to September 2013  
☐ Permanent  
☐ Other: \_\_\_\_\_

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

**The design and maximum occupancy of the camp is 32 people. The expected average population is 26 people.**

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

**Not Applicable.**

## **CAMP LOCATION**

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

**The proposed location of the camp facilities is along the trail north of the airstrip (GPS Coordinates 67°26'06.45"N, 116°25'40.30"W).**

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.

**This location was selected because of the proximity to the airstrip and a water source as well as the fact that it is a flat dry area. The site was used previously by an exploration company camp. See Appendix 5 for Maps & Drawings (Figure #4 shows the camp location).**

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

<input checked="" type="checkbox"/>	Crown Lands	Permit Number(s)/Expiry Date: <b><u>Application Pending</u></b>
<input type="checkbox"/>	Commissioners Lands	Permit Number(s)/Expiry Date: _____
<input checked="" type="checkbox"/>	Inuit Owned Lands	Permit Number(s)/Expiry Date: <b><u>#KTX12X11</u></b> <b><u>October 15, 2014</u></b>

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

**Kugluktuk ~75 km to the Northeast**

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

**Yes, Community Meetings were held in Kugluktuk in February 2011 and July 2012. An additional meeting is planned for March/April 2014 during the demobilization activities.**

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: **To Support Remedial Activities**

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: **Remedial Activities**

17. Type of deposit (exploration focus):

- ☐ Lead Zinc  
☐ Diamond  
☐ Gold  
☐ Uranium  
☒ Other: **Not Applicable**

## DRILLING INFORMATION

18. Drilling Activities

**Not Applicable.**

- ☐ Land Based drilling  
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

**Not Applicable.**

20. Describe what will be done with drill water?

**Not Applicable.**

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.

**Not Applicable.**

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

**Not Applicable.**

## **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.

**A Site Specific Spill Contingency Plan has been provided with this questionnaire.**

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

**Spill kits will be located as follows:**

- **A minimum of two "Drum Spill Kits" will be maintained in the fuel storage/refueling area. An inventory of overpack drums and additional spill cleanup materials will be stored near this area as well.**
- **All mobile equipment will carry an "Equipment Spill Kit".**
- **ATVs will carry small portable spill kits**

**For further information see the Site Specific Spill Contingency Plan.**

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

**See the Site Specific Spill Contingency Plan provided with this questionnaire.**

## **WATER SUPPLY AND TREATMENT**

26. Describe the location of water sources.

**Drinking water will be brought to site in bottles on the resupply flights. All other water will be sourced from the small lake north of the camp area (GPS Coordinates 67°26'14.60"N, 116°25'30.65"W) or from Hope Lake (GPS Coordinates 67°26'28.15" N, 116°27'49.85"W). Figure #4 in Appendix 5 shows the locations of the water sources.**

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

- |                                     |                            |   |
|-------------------------------------|----------------------------|---|
| <input checked="" type="checkbox"/> | Domestic Use: <u>4,800</u> | Water Source: <u>Bottled &amp; Small Lake North of Camp</u> |
| <input type="checkbox"/>            | Drilling: _____            | Water Source: _____   |
| <input checked="" type="checkbox"/> | Other: <u>5,200</u>        | Water Source: <u>Small Lake North of Camp</u>               |

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 pumped from the lake directly into the camp tank. The water intake hose will be covered with a screen (maximum screen size of 2.54 millimetres and maximum screen approach velocity of 0.038 metres/second) to ensure that no fish become trapped.**

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

**No. Since drinking water will be supplied via bottled water quality monitoring is not required.**

30. Will drinking water be treated? How?

**Not Applicable.**

31. Will water be stored on site?

**Drinking water (in bottles) will be stored on site. No other water storage will take place as the camp tank will be filled on an as needed basis.**

## **WASTE TREATMENT AND DISPOSAL**

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

- ☒ Camp Sewage (blackwater)

**An estimated 960 Litres/day will be produced and treated/disposed of in the Sewage Lagoon.**

- ☒ Camp Greywater

**An estimated 2,560 Litres/day will be produced and treated/disposed of in the Sewage Lagoon.**

- ☒ Solid Waste

**Solid camp waste (paper, packaging, food, etc.) will be incinerated (combustibles only) or shipped south to a licenced disposal facility.**

- ☒ Bulky Items/Scrap Metal

**Includes wood and metal debris. This material will be packaged and shipped south to a licensed disposal facility.**

- ☒ Waste Oil/Hazardous Waste

**Hazardous waste including asbestos, cylinders, items painted with lead based paint, and organic liquids. These materials will be packaged as per the Transportation of Dangerous Goods Regulations and shipped south to a licensed disposal facility.**

☒ Empty Barrels/Fuel Drums

**Empty barrels/fuel drums will be cleaned, crushed and transported south to a licensed recycling/disposal facility packaged and shipped south to a licensed disposal facility.**

☒ Other:

**Other waste includes contaminated soils (metal and petroleum hydrocarbons). These will be packaged for transport and shipped south to a licensed disposal facility.**

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

**Westland Model CY-20 Incinerator. Combustible wastes generated from camp operations will be incinerated; these will include paper, cardboard, other packaging materials and food wastes.**

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

**Non-combustible waste will be shipped south to a licensed disposal facility.**

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

**Not Applicable.**

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

**Not Applicable.**

## **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 is no water supply treatment planned. The waste treatment and disposal methods have been used on similar projects in the past and are proven to work in a cold climate. The only waste treatment to take place on-site is the incineration of combustible wastes and treatment of the black and grey water in a sewage lagoon.**

**Potential O&M problems that could be encountered during the incineration of the combustible wastes are failure of the incinerator and incomplete combustion. The contingency plan for these problems include either repairing the incinerator or shipping the waste off-site for disposal with the other non-hazardous wastes.**

**Potential O&M problems that could be encountered during the treatment of black and grey water in the sewage lagoon include increased volumes of material for treatment and failure to meet discharge criteria. The contingency plan for these problems include constructing the sewage lagoon in an area that would allow for an additional lagoon to be constructed nearby to contain increased volumes of material and allow additional treatment time.**

## **ABANDONMENT AND RESTORATION**

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

**Since this is a Remediation Project the Remedial Action Plan details the final abandonment and restoration activities at the site. A copy of the Remedial Action Plan has been provided in Appendix 4.**

## **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: \_\_\_\_\_

**An Archaeological Impact Assessment was conducted at the site and has been provided in Appendix 8. A list of additional documents detailing the site has been provided in Appendix 9.**

## **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