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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: ___Uranium North_____Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: **Graham Gill** Tel: **604.689.2010** Fax: **604.484.7143** Email: **g.gill@diamondsnorth.com**

2. Project Manager**:** **Graham Gill** Tel: **604.689.2010** Fax: **_604.484.7143** E-mail: _ **g.gill@diamondsnorth.com**

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
   x Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: **__June 1, 2007 completion:__June 1, 2012____**

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   x Temporary
   ☐ Seasonally Occupied: _____
   ☐ Permanent
   ☐ Other:_____

7. What is the design, maximum and expected average population of the camp?
   The camp will consist of 9-11 tents, capable of housing 10-12 people. It is expected to service approximately 648 person days of work in year 1 and up two 728 person days in year 2. Mandays for subsequent years are not yet available.

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

The camp location has been used by previous exploration companies. The site was used by Uranerz exploration in 1978 and it is suspected to be the site used by Cominco for their camp throughout their previous exploration activities in the area. The campsite has a core storage area from produced during these previous exploration programs.

CAMP LOCATION

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

The camp is located on the souhern shore of Amer Lake. It is approximately 150 kms from the community of Baker Lake and found at the approximate coordinates of 65 degrees 28' 30" N, 96 degrees, 54' 00" W, Map sheet 66H.

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.

See attached map figure 1 for location. The camp was selected because it has been previously used as a temporary camp as well as its proximity to the desired work areas.

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

x	Crown Lands	Permit Number (s)/Expiry Date: pending approval ___
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
☐	Inuit Owned Lands	Permit Number (s)/Expiry Date: _____

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

The camp and work areas are located approximately 150 kms north-northwest of the community of Baker Lake.

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

A plain language summary of the proposed work has been produced, translated into Slavics and submitted for distribution. Uranium North would welcome the opportunity to provide a more detailed presentation discussing their proposed project if requested to do so.

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, there are no expected impacts on traditional water use, local fish or wildlife as a result of this program.

PURPOSE OF THE CAMP

15.
- [x] Mining (includes exploration drilling)
- [ ] Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- [ ] Other _____

16. Activities (check all applicable)

- [x] Preliminary site visit
- [x] Prospecting
- [x] Geological mapping
- [x] Geophysical survey
- [x] Diamond drilling
- [ ] Reverse circulation drilling
- [ ] Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- [ ] Other: _____

17. Type of deposit (exploration focus):

- [ ] Lead Zinc
- [ ] Diamond
- [ ] Gold
- [x] Uranium
- [ ] Other: _____

DRILLING INFORMATION

18. Drilling Activities

- [x] Land Based drilling
- [ ] Drilling on ice

19. Describe what will be done with drill cuttings?

Drill cuttings will be collected in properly constructed sump or natural depression on land no less than 30 metres away from the normal high water mark of all water bodies. If uranium mineralization is encountered in the hole Saskatchewan's Best Management Practices for Mineral Exploration (BMP) will be followed. In accordance with these BMPs all drill cuttings containing >0.05% uranium, which is equivalent to 1000 counts per second on a calibrated Scintillometer, will be placed back down the drill hole and the hole will be sealed with grout. Additionally, any drill hole intersecting uranium mineralization >1% over a length >1 metre and with a metre-percent concentration > 5 will be grouted over the entire length of the mineralized zone and not less than 10 metres above and below the mineralized zone.

20. Describe what will be done with drill water?

All drill water will be collected in the sump described in detail in section 19 above.

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.

All drill additives proposed are biodegradeable and environmentally friendly. MSDS sheets are provided as attachments to the original water licence application

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

Core samples collected will be flown by helicopter to camp where it will be geologically logged. Core intervals of interest identified by the geologist will be split, bagged and placed in pails and shipped to an approved analytical lab for analysis. These samples will also be scanned by a Scintolometer, which is a hand held device capable of measuring gamma radiation.

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.

Uranium North Spill Contingency Plan provided as attachment with original water licence.

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

A minimum of 2 spill kits will be on site. A spill kit will be located in camp. A second spill kit will also be located with the drill. In the event fuel caches are not located at camp then each fuel cache will also be equipped with a spill kit.

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

Heating Oil: 54 – 205 L drums, 10, 800 L total
Diesel: 84 205 L drums, 16,6560 L total
Propane: 111 100 lb cylinders, 11,100 lbs total
Helicopter Jet B fuel: 270 205 L drums 54,000 L

Propane cylinders will be stored upright in the appropriate storage areas. Opened diesel drums will also be stored upright. Full unopened diesel and Helicopter Jet A fuel will be stored on their side in the designated fuel caches.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water for domestic use at the camp will be pulled on an as needed basis from Amer Lake. Water for drilling purposes will be drawn from an appropriately identified lake near the drill site.

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

x Domestic Use: **<10-20 m3/day** Water Source: **Amer Lake**

x Drilling: **<60m3/day** Water Source: **surface lakes**

☐ 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:
Camp: Either a lakeshore-based pump-house with ½ HP electrical pump (1.25" suction & .75" discharge) directly drawing water and pressuring the plumbing system or a gas-engine pump intermittently used to fill an indoor water tank (from which the plumbing is subsequently pressurised).

All water intakes will be equipped with a screen with an appropriate mesh size to ensure no entrapment of fish as per DFO's *1995 Freshwater Intake End-of-Pipe Fish Screen Guidelines*.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?
Drinking water will be tested at the beginning of each field season. Samples will be sent to Taiga laboratories in Yellowknife for analysis.

30. Will drinking water be treated? How?
Using sediment filter and UV treatment. **Any other treatment required will be conducted as per instructions from the laboratory.**

31. Will water be stored on site?
In the dry tent in a 200 gallon plastic tank for domestic use only.

WASTE TREATMENT AND DISPOSAL

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

x Camp Sewage (blackwater)

Latrine pits using bacterial reducing agent or chloride of lime. All pits to be over 30 m from water and
Backfilled when finished.

❹ Greywater

Kitchen and dry greywater will be gravity fed to a natural depression or a properly constructed sump.

x Solid Waste

Burnable solid waste will be burnt in a vented base fuel fed burning barrel, the ashes will be barreled and transported to an approved disposal site in Baker Lake.

❹ Bulky Items/Scrap Metal

All non-burnable garbage or debris will be stockpiled at camp and flown to an approved disposal facility located at Baker Lake.

❹ Waste Oil/Hazardous Waste

All waste oil and hazardous wastes will be collected and properly stored at camp until such time that it can be transported to an approved disposal/recycling site in Baker Lake.

x Empty Barrels/Fuel Drums

Empty barrels and fuel drums will be returned to the fuel supplier to be recycled or they will be transported to an approved disposal facility.

☐ Other:

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

Burnable solid waste will be burnt in a vented base fuel fed burning barrel, the ashes will be barreled and transported to an approved disposal site in Baker Lake.

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

It is currently proposed that waste of this nature will be disposed of at an approved storage facility in Baker Lake. Uranium North will ensure that all necessary authorizations to do so have been obtained from the municipal office prior to disposal by the contracted expeditor.

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

Sumps preferably in natural cistern or excavation. Volume to be capable of retaining all turbid drill fluids not recycled. Camp sumps to be close to kitchen and ablution tents to allow gravity drainage to them but greater than 30 meters from water bodies.

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

Visual monitoring for leachate is done as a matter of course by drillers and camp managers, with ensuing mitigation if detected. No sampling will be done at this early stage of exploration except in cases where septic leachate is suspected.

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 methods proposed have been extensively and successfully used over a number of years in NWT and Nunavut. They are standard to diamond drill exploration and the camps that support it.

ABANDONMENT AND RESTORATION

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

Uranium North also maintains a progressive reclamation policy which effectively restores, as near as possible, any disturbance at any site to its original state before operations begin at the next site. This includes the removal of all garbage, fuel drums and equipment. All constructed sumps will also be backfilled. Before and after pictures of each site will be taken and made available for the public record.

All incinerator residual, non-combustible garbage and empty drums will be backhauled to Baker Lake where they will be disposed of in an approved facility.

Uranium North Restoration Procedures are described in detail in Attachment V, A & R Plan.

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

- x Physical Environment (Landscape and Terrain, Air, Water, etc.)
- x Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- x Socio-Economic Environment (Archaeology, Land and Resources Use,
- ☐ Demographics, Social and Culture Patterns, etc.)
- ☐ Other: _____

Aspects of the Physical and biological environment will be documented as a portion of the surface mapping and prospecting exercises carried out as part of the program. Wildlife sightings and movements will be documented by ground crews and pilots.

Any archaeological sites encountered will not be disturbed. If a site is found during operations, work in that vicinity will stop, a 30 metre buffer around the area will be established, the site will be photographed and GPS coordinates will be recorded. This information will then be reported to the Prince of Wales Northern Heritage Centre.

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