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NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Nunavut Water
Board

DEC 13 2005

Public Registry

Applicant: _____ Licence No: _____

(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Philip Olson Tel: 306-651-2405 Fax: 306-651-5105
E-mail: peolson.titanuranium@sasktel.net
2. Project Manager: Paul Nicholls Tel: 905-640-3957 Fax: 905-640-7660
E-mail: paul.nicholls2@sympatico.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.
Titan Uranium Inc. holds the rights to the claims and has signed an option agreement to explore mineral leases and a prospecting permit held by Ronald McMillan.
5. Duration of the Project
☐ Annual
☒ Multi Year:
If Multi-Year indicate proposed schedule of on site activities
Start: April 1, 2006 Completion: April 1, 2008

CAMP CLASSIFICATION

6. Type of Camp
☐ Mobile (self-propelled)
☒ Temporary
☒ Seasonally Occupied: possibly May to September
☐ 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 camp is designed for approximately 15 people and the maximum will be approximately 20. The camp population will fluctuate from approximately 4 up to the maximum depending on the stage of the program.

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

The camp site was used previously by Westmin Resources limited in 1977, and during the period 1979 and 1984. Westmin closed the camp in 1984. The lake was called Itza Lake by Westmin. In 1977 the camp was small and was removed after less than 100 man days. Between 1979 and 1984 the camp was utilized during the summer months to support a regional mineral exploration program. Titan Uranium Inc. has not visited the site to date, but will take photographs of the site prior to the camp being mobilized.

CAMP LOCATION

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

The proposed camp site is located in N.T.S. Sheet 66-G/1 (coordinates of 65°03'N and 98°21'30"W) approximately 150 kilometres northwest of Baker Lake on a flat sandy area approximately 75 metres from the shore of Itza Lake. The proposed camp site is approximately 4 metres above the level of the lake.

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 proposed location of the camp site was selected due to the following factors:

- a) central location with respect to the mineral holdings of Titan Uranium Inc. (Figure 1)
- b) lake provides landing and mooring area for Float equipped aircraft (Figure 2), and
- c) the camp site has been used previously

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

<input checked="" type="checkbox"/> Crown Lands	Permit Number (s)/Expiry Date: <u>Application Pending</u>
<input type="checkbox"/> Commissioners Lands	Permit Number (s)/Expiry Date: _____
<input checked="" type="checkbox"/> Inuit Owned Lands	Permit Number (s)/Expiry Date: <u>Application Pending</u>

12. Closest Communities (distance in km):

Baker Lake is located approximately 150 kilometers southeast of proposed camp location.

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

Titan Uranium Inc. has presented the project to the Hamlet Council in Baker Lake .

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
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
(Omit questions # 16 to 21)
☐ Other _____ (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: _____
17. Type of deposit:
☐ Lead Zinc
☐ Diamond
☐ Gold
☒ Uranium
☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities
☒ Land Based drilling
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

All drill cuttings will be retained in a sump located a minimum of 35 meters from the normal high water mark of any water body. The sump will be backfilled upon completion of the hole.

20. Describe what will be done with drill water?

The drill water will be returned to the sump and a series of settling tanks prior to being reused for drilling. There should be minimal water loss except in cases of highly fractured rock beneath the permafrost layer.

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.

To date the drilling contractor has not been selected so the exact drill additives are not known at this time. MSDS sheets for some of the common additives used are included in the Spill Response Plan. Titan Uranium will ensure that the additives are non-toxic and biodegradable and will update the Spill Response Plan with all appropriate MSDS sheets once the contractor has been selected.

22. Will any core testing be done on site? Describe. No
Drill core will be split on site and samples will be sent to a laboratory for analysis.

SPILL CONTINGENCY PLANNING

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

See attached Titan Uranium Spill Contingency Plan (2005)

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

See attached Titan Uranium Spill Contingency Plan (2005). Spill kits will be provided for the camp, the diamond drill, and the main fuel cache at the camp.

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

See attached Titan Uranium Spill Contingency Plan (2005). All fuels are stored in 205L steel drums on elevated areas distant from bodies of water.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The water source for the camp will be Itza Lake. The nearest lake to the individual drill holes will be used as the source once the targets have been finalized by ground surveys.

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

- ① Domestic Use: 100 litres/person/day Water Source: Itza Lake
① Drilling Units: 15,000 litres/day/hole Water Source: nearest lake
○ Other: _____ Water Source: _____

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

The intake for the water pump will be equipped with a screen, with a mesh size sufficiently fine so as to prevent any danger to fish, and the pumping rates will be sufficiently low so as to prevent the impingement of fish on the pump intake screen.

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

A water sample will be collected from the lake where the potable water is to be pumped. Tests will be conducted with a field test kit and analyzed for various types of coliform bacteria. Tests will be completed on a monthly basis. The Canadian Drinking Water Quality Guidelines will be followed in order to determine whether further treatment is required.

30. Will drinking water be treated? How?

Water will be boiled.

31. Will water be stored on site?

Water will be collected as needed and stored in a tank at the camp.

WASTE TREATMENT AND DISPOSAL

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

④ **Camp Sewage (blackwater)**

Sewage will be managed by latrine sumps. The latrine sumps will be treated with lime and back-filled following use.

④ **Camp Greywater**

Camp greywater will be discharged into sumps located where direct flow into a body of water is not possible. Average daily discharge will be on the order of 2500 liters.

④ **Solid Waste**

Combustible solid waste will be incinerated daily in a modified 45 gallon drum incinerator. Noncombustible waste will be back-hauled to an approved Solid Waste Disposal Facility

④ **Bulky Items/Scrap Metal**

Items will be removed from site for proper disposal.

④ **Waste Oil/Hazardous Waste**

Waste oil not used for garbage incineration will be removed from site for proper disposal. All potential hazardous waste such as batteries, aerosol cans, paint cans, etc are routinely collected and shipped for proper disposal.

④ **Empty Barrels/Fuel Drums**

Empty fuel drums will be returned to Baker Lake and later barged south for recycling.

○ Other:

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

Combustible materials such as food, paper and wood will be incinerated in a modified 45 gallon drum. Non-combustible wastes will be back-hauled to an approved Solid Waste Disposal Facility.

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

All non-combustible waste will be shipped off site. No waste will be deposited in the Baker Lake landfill without authorization and approvals. This will be a part of the on-going communications with the community of Baker Lake.

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

All sumps will be located at a minimum of 35 metres from the normal high water mark of any water body including streams. More information will be provided once the camp location has been finalized. A schematic has been provided (see attached Figure 3) to show the general location of the camp. The layout of the tents may change based on ground topography and the presence of water. Once the camp has been built, a schematic showing the exact location and layout of the tents will be provided to regulatory agencies.

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

Visual inspections of all sumps will be conducted daily. In the event that any leaching is observed, the DIAND Water Resource Inspector will be contacted immediately.

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 treatment and disposal methods being proposed are currently in practice across the north and follow the regulated guidelines and accepted methods. The current contingency plan at this time is mitigation (safe distance for disposal in sumps, shipping off site any hazardous chemicals/scrap metal/non-combustible waste, etc.) and monitoring. Should any there be any concerns, the DIAND Water Resource Inspector will be notified immediately.

ABANDONMENT AND RESTORATION

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

Please see attached “Abandonment & Restoration Plan”. The Plan includes seasonal shutdowns as well as final closure. Drill Sites - All drill sites will be cleaned daily with all wastes removed to camp for disposal. Since the drilling operation will be helicopter supported, any damage to the tundra will be site specific and temporary. Typically, drill sites are impossible to find after several seasons of normal climatic conditions.

Field Personnel - All field personnel are under strict orders to return personal garbage (lunch waste, cigarette packaging, etc) to **camp** for disposal.

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:

To date Titan Uranium has not collected baseline data on the area.

REGULATORY INFORMATION

40. Do you have a copy of
- ④ Article 13 - Nunavut Land Claims Agreement
 - ④ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 - ④ NWB - Interim Rules of Practice and Procedure for Public Hearings
 - ④ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
 - ④ NWTWB - Guidelines for Contingency Planning
 - ④ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
 - ④ Fisheries Act - s.35
 - ④ RWED - Environment Protection- Spill Contingency Regulations
 - ④ Canadian Drinking Water Quality Guidelines
 - ④ Public Health Act Camp Sanitation Regulations
 - ④ Public Health Act Water Supply Regulations
 - ④ Territorial Land Use Act and Regulations

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