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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP
SUPPLEMENTARY QUESTIONNAIRE

Applicant: __TUNDRA COPPER CORP__ **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. **Environment Manager :** Donald Penner_Tel: 778-212-1950Fax: ___none_____
Email:dpenner@tundracopper.com

2. Project Manager: Donald Penner_Tel: 778-212-1950Fax: ___none_____E-mail: dpenner@tundracopper.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: July 15, 2014 – Sept 15, 2016
☐ Multi Year:

If Multi-Year indicate proposed schedule of on site activities
Start: July 15, 2014____ Completion:Aug 15, 2014___

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?

Average population 9 people; see attached for design of camp.

8. Provide history of the site if it has been used in the past. Our proposed sites have not been used By Tundra Copper Corp in the past.

CAMP LOCATION

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

Possible site 1. South end of Hope Lake airstrip. Possible site 2: Small lake on claim RML28
67°26'00"N; 116°28'00"W 67°20'12"N; 115°59'18"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.

Site 1 located for central location to our two largest claim blocks. Site two chosen as alternate if we have a reduced program this year. Site 1 is located on KIA land at south end of Hope Lake airstrip. We are seeking permission from them to have the camp there.

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

- [x] Crown Lands Permit Number (s)/Expiry Date: _Our second site choice. pending land use permit_____
- [ ] Commissioners Lands Permit Number (s)/Expiry Date: _____
- [x] Inuit Owned Lands Permit Number (s)/Expiry Date: Our first site choice. Current permit being amended is in progress, permit # KTL113B003_____

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

Kugluktuk is approx 60km northeast of our claims area.

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

There have not been any formal meetings to date due to the small size of the program. The only consultation and notification is through the review of our IOL land use permit amendment by the KIA.

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?

There will not be any impact to Kugluktuk or any fish and wildlife habitat because the project will initially be very small. There will not be any discharge of waste or any other material into any body of water.

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)

- [ ] Preliminary site visit
- [x] Prospecting
- [x] Geological mapping
- [x] Geophysical survey
- [x] Diamond drilling – depends upon available funds yet to be raised
- [ ] Reverse circulation drilling
- [ ] Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- [ ] Other: _____

17. Type of deposit (exploration focus):

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

DRILLING INFORMATION

18. Drilling Activities

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

19. Describe what will be done with drill cuttings?

20. Cuttings will be settled out from the drill water in a nearby sump. On completion of the hole, the sump will be filled in and the cuttings buried There is a very minimal amount of cuttings due to the short hole depths anticipated, generally approx 100m.

21. Describe what will be done with drill water?

Drill water will be drained into a nearby sump, cuttings allowed to settle, and the water allowed to percolate into the ground.

22. 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.

550X Polymer; Extreme Enviro Cote 2010; Extreme Linseed Lub 2010; Extreme Number One; Extreme Rod Grease; Extreme Stop; Extreme Super Trol; Extreme Super-G Blue; Extreme Super-G Gold; Extreme TORQ-EEZ; Fordia_Ultravis; K-Ion; Linseed Soap.

SEE ATTACHED MSDS SHEETS

23. Will any core testing be done on site? Describe. The core will be geologically logged, then cut in half with one half sent out for assay and the remaining half archived on site.

SPILL CONTINGENCY PLANNING

24. 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 – is currently being prepared.

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

There will be two spill kits, one in the camp and one at the drill site.

26. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets. 10x205litre drums JetB Aviation fuel; 4x205litre drum diesel; 1x205litre drum Gasoline; 6x 100lb tank propane. The drums will be stored within a

containment area surrounded by a burm. The floor of the berm area will be lined with suitable material to prevent any seepage into the underlying soil if any fuel should leak.

WATER SUPPLY AND TREATMENT

27. Describe the location of water sources. Un-named creeks and ponds. See figures 1-4 maps

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

- [x] Domestic Use: 0.5m^3 Water Source: un-named creek
- [x] Drilling: 50m^3 Water Source: Un-named creeks and ponds.
- [ ] Other: _____ Water Source: _____

SEE ATTACHED MAPS FIGURES 1-4

29. 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: The water will be supplied with a small pump which will be fitted with a fish screen.

30. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency? One sample will be sent to an accredited lab for analysis for suitability for drinking. The tests will include, among others, the pH, bacteria count and any hazardous elements.

31. Will drinking water be treated? How? The water will not be treated.

32. Will water be stored on site? No

WASTE TREATMENT AND DISPOSAL

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

- [x] Camp Sewage (blackwater) An outhouse will be placed over a pit. The pit will be filled in burying the sewage on completion of the project.

☒ Camp Greywater: The greywater will be drained into a sump and buried on completion of the project.

☒ Solid Waste: Garbage will be burned; residue will be flown out to landfill in Kugluktuk at completion of project.

☒ Bulky Items/Scrap Metal: Flown out to landfill at completion of project.

☒ Waste Oil/Hazardous Waste: Will be flown out for appropriate disposal.

☒ Empty Barrels/Fuel Drums: Will be flown out to fuel supplier at project completion.

☐ Other:

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34. Please describe incineration system if used on site. What types of wastes will be incinerated? Paper and kitchen waste will be burned in a make-shift drum made for burning waste.

35. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted? Will be flown out to landfill in Kugluktuk. Permission has not yet been obtained. This will be requested when first crew members mobilize.

36. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable). This will be a very small camp. We haven't been to the proposed site yet, however, the camp will be close enough to a creek to obtain water for the camp.

37. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? No.

OPERATION AND MAINTENANCE

38. 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?
We are not planning to operate in cold climate at this point in our exploration. If the program is successful and we further advance exploration, then we may be operating in cold climate.

ABANDONMENT AND RESTORATION

39. Provide a detailed description of progressive and final abandonment and restoration activities at the site. Upon completion of the project, the camp will be entirely torn down and flown out. Pits and sumps will be filled in, any waste flown out and the area restore to the condition in upon arrival. There will be no supplies or materials left at the camp site.

BASELINE DATA

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

- [x] Physical Environment (Landscape and Terrain, Air, Water, etc.): We will be sampling various water bodies and taking soil samples to obtain background data as the exploration program progresses.
- [x] Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.): We will be documenting wildlife and bird sightings during the course of our work.
- [ ] Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
- [ ] Other: _____

REGULATORY INFORMATION

41. 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