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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: _Prof. John A. Tarduno_Licence No: _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: same as below Tel: _Fax: _____E-mail:_____

2. Project Manager: Prof John Tarduno Tel: 585-275-5923 Fax: 585-275-5689 E-mail: john@earth.rochester.edu

3. Does the applicant hold the necessary property rights? NA

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

x One year or less Start and completion dates: June 28, 2012-September 1, 2012

Multi Year:

If Multi-Year indicate proposed schedule of on site activities
Start: __ _____ Completion:__

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?
Small mountaineering style camp of tents and food boxes; population 4-6, less than 100 person days at each site

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

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.
Each of the three sites is to be located within 1 mile distance of a small stream.

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 sites were chosen on the basis of geological maps.

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

X	Crown Lands	Permit Number (s)/Expiry Date: NA
☐	Commissioners Lands	Permit Number (s)/Expiry Date: _____
☐	Inuit Owned Lands	Permit Number (s)/Expiry Date: _____

12. Closest Communities (direction and distance in km): Grise Fiord 400-800 km distance; closest site is on Axel Heiberg Island

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work? Yes (letter written to Major of Grise Fiord)

14. Will the project have impacts on traditional water use areas used by the nearby communities? No. 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)
- X Other Scientific research (geology)

16. Activities (check all applicable)

- ☐ Preliminary site visit
- ☐ Prospecting
- x Geological mapping
- ☐ Geophysical survey
- ☐ Diamond drilling
- ☐ Reverse circulation drilling

☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
☐ Other: _____

17. Type of deposit (exploration focus):

☐ Lead Zinc
☐ Diamond
☐ Gold
☐ Uranium
☐ Other: ___Sedimentary and volcanic rocks for academic study

DRILLING INFORMATION

18. Drilling Activities

☐ Land Based drilling
☐ Drilling on ice

19. Describe what will be done with drill cuttings?

NA

20. Describe what will be done with drill water?

NA

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.

NA

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

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.

NA

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

NA

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

Only Iosol (white gas) for cooling provided by Polar shelf in a 5 gal. container. The container provided by Polar Shelf is placed in a plastic tub for secondary confinement.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Local streams.

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

x Domestic Use: less than 1 Water Source: stream
☐ 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:

Use of 1-5 gal. collapsible water containers, collected from small streams where fish, if present, would be visible and easily avoided.

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

Water is assessed visually for silt content. If silt level is high, silt is allowed to settle in 5 gal. containers and cooking water is used from the top.

30. Will drinking water be treated? No How?

See #29.

31. Will water be stored on site? See #29.

WASTE TREATMENT AND DISPOSAL

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

☐ Camp Sewage (blackwater)

☐ Camp Greywater

☐ Solid Waste

☐ Bulky Items/Scrap Metal

☐ Waste Oil/Hazardous Waste

☐ Empty Barrels/Fuel Drums

x Other: All trash is flow out by Polar Continental Shelf.

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

NA

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

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

NA.

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

NA

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?

Polar Shelf has a long experience is transporting and disposing of camp trash.

ABANDONMENT AND RESTORATION

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

NA. Our impact is minimal; we operate very small mountaineering style camps and leave the areas visited pristine.

BASELINE DATA

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

No.

- ☐ 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: _____

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