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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

## EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

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

### ADMINISTRATIVE INFORMATION

1. Environment Manager: \_\_\_\_\_ Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

2. Project Manager: Steven Siciliano Tel: (306) 966-4035 Fax: (306) 966-6881

E-mail: steven.siciliano@usask.ca

3. Does the applicant hold the necessary property rights? In progress with Qikiqtani Inuit Association (QIA)

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.

5. Duration of the Project

☒ One year or less      Start and completion dates: 07/07/12 to 25/08/12  
☐ Multi Year:

If Multi-Year indicate proposed schedule of on site activities

Start: \_\_\_\_\_ Completion: \_\_\_\_\_

### 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?  
Research camp with 3 small personal camping tents. Maximum and average population expected will be 3 people.

8. Provide history of the site if it has been used in the past.  
Has been used as a temporary camp in summer of 2009 by the above applicant.

## CAMP LOCATION

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

The Dome, which is a mound of dolomitic and granitic rock rising to a plateau at approximately 540 m above sea level. Two distinct soils occur on the Dome, granitic material with a dark grey or black surface colour and a pH 6.3-7.2 and dolomitic material with a light surface colour and a pH 8.0-9.0. The granitic soils are separated from the more widespread dolomitic soils by a transition zone less than 1 m wide; these soils correspond with the B1 barrens (dolomitic) and B3b noncarbonate mountain complex (granitic) of the Circumpolar Arctic Vegetation Map (CVAM).

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. Location of camp was selected based upon previous use and proximity to area where scientific research is being conducted. See attached documents for maps and aerial photograph.

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

<input type="checkbox"/>	Crown Lands	Permit Number (s)/Expiry Date: _____
<input type="checkbox"/>	Commissioners Lands	Permit Number (s)/Expiry Date: _____
x	Inuit Owned Lands	Permit Number (s)/Expiry Date: In progress with QIA

12. Closest Communities (direction and distance in km):  
Eureka, approximately 250 km NW

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

No

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)  
x Other Scientific research

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)
- x Other: Measurement of gas fluxes and soil sampling

17. Type of deposit (exploration focus):

- ☐ 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?

20. Describe what will be done with drill water?

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.

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

## 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.

24. How many spill kits will be on site and where will they be located?  
1 spill kit located at the temporary camp in a location known to all three researchers.
25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.  
Gasoline will be stored in 4 plastic jerrycans (5-10L in size) for a maximum storage of 40 L at any given time. The MSDS sheet is attached.

## **WATER SUPPLY AND TREATMENT**

26. Describe the location of water sources.

Alexandra Fiord, RCMP base camp (established water system)

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

xDomestic Use: 0.01 m3/day Water Source: Alexandra Fiord, RCMP camp

☐ 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:  
Water will be taken from the existing water system at the RCMP base camp and transported by foot or with other supplies by helicopter to the temporary camp.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?  
No

30. Will drinking water be treated? How?  
No

31. Will water be stored on site?  
Yes, water will be stored in 1-2 small (25L) plastic jugs on-site. Only 4-6 days supply of water for the domestic use for three people will be stored.

## WASTE TREATMENT AND DISPOSAL

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

☒ Camp Sewage (blackwater)

\_\_\_Solid and liquid human waste, 20 L, buried in a hole

☒ Camp Greywater

Water from cooking/cleaning, 40 L, buried in a hole

☒ Solid Waste

All waste will be removed from the temporary camp every 4-6 days.

☐ Bulky Items/Scrap Metal

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☐ Waste Oil/Hazardous Waste

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☐ Empty Barrels/Fuel Drums

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☐ Other:

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33. Please describe incineration system if used on site. What types of wastes will be incinerated?  
None

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 flow out to PCSP in Resolute.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).  
None
36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?  
No

## 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?  
Yes. Only to be used during July and August.

## ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.  
All camp and scientific equipment will be removed. Hole with human waste will be filled in with soil removed from creation of the hole.

## 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.)
  - ☐ 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