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**RECEIVED**

By Manager of Licensing at 4:57 pm, Apr 08, 2011

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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

**EXPLORATION/ REMOTE CAMP  
SUPPLEMENTARY QUESTIONNAIRE**

Applicant: JOHN SMOL Licence No: \_\_\_\_\_  
(For NWB Use Only)

**ADMINISTRATIVE INFORMATION**

1. Environment Manager: N/A Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_
2. Project Manager: N/A Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_
3. Does the applicant hold the necessary property rights? N/A
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 2011  
☐ 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?  
5-6 people
8. Provide history of the site if it has been used in the past.  
Researchers - seasonal

## CAMP LOCATION

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

Arctic tundra. Located on former raised beaches, at ca 65 m asl. Small ponds are featured throughout.

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 was previously used by researchers, Geological Survey of Canada. Unglaciated peninsula, close to Leffert Glacier

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

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

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

Grise Fiord, South West 600 km

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

NA. We are there for less than two weeks and

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*

*No. Overall this work removes 2L of H<sub>2</sub>O from a site, for water quality testing. No negative impact.*

## PURPOSE OF THE CAMP

15. ☐ Mining (includes exploration drilling)  
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)  
(Omit questions # 16 to 21)

☒ Other *Scientific water quality monitoring and environmental reconstructions*

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)  
☒ Other: Water quality assessment

17. Type of deposit (exploration focus):

- ☐ Lead Zinc  
☐ Diamond  
☐ Gold  
☐ Uranium  
☐ Other: NA

## DRILLING INFORMATION

18. Drilling Activities

- ☐ Land Based drilling  
☐ Drilling on ice

NA

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.

We have essentially no fuel stored. We have < 5 gallons of gas. Helicopter does not refuel at our camp.

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

PCSP issues spill kits. We have < 5 gallons of fuel. Our helicopter refuels off site at nearby Alex Fiord, not at our location.

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

NA

## WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Ponds located nearby and snow drifts

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

<input checked="" type="checkbox"/>	Domestic Use:	_____	Water Source:	Ponds + snowmelt
<input type="checkbox"/>	Drilling:	NA	Water Source:	NA
<input type="checkbox"/>	Other:	NA	Water Source:	NA

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:

These ponds do not have fish as they freeze to the bottom each year.

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

We boil water, or filter by hand pumps.

30. Will drinking water be treated? How?

drinking water is filtered with a hand pump

31. Will water be stored on site?

No, Only what we need for the day.

## WASTE TREATMENT AND DISPOSAL

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

☒ Camp Sewage (blackwater)

*NA*  
human waste is burned. Ashes brought back to PCSP

☒ Camp Greywater

dish water, cleaning water is screened and poured on tundra away from any pond.

☒ Solid Waste

brought back to Resolute, PCSP camp.

☒ Bulky Items/Scrap Metal

None generated on site

☒ Waste Oil/Hazardous Waste

None generated on site

☒ Empty Barrels/Fuel Drums

NA

☐ Other:

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

human waste, paper wrappings. Burn barrel  
Ash brought back to PCSP for disposal

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

PCSP, in Resolute Bay.  
Very little is generated

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?

NA

## ABANDONMENT AND RESTORATION

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

NA

We take everything back with us, that we take in.

## 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: limnology of the ponds (water)

Douglas, MSV and Smol, J.P. 1994. Limnology of High Arctic Ponds (Cape Herschel, Ellesmere Island). Archiv für Hydrobiologie 131: 401-434.

## 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

