

P.O. Box 119 GJOA HAVEN, NU X0B 1J0 TEL: (867) 360-6338 FAX: (867) 360-6369 בּבֶּי בְּבֶּי בְּבְי בְּיְי בְּבְי בְּיִי NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYINGI OFFICE DES EAUX DU NUNAVUT

# EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

		_		Licence (For NWB	e No:
ADMII	NISTRATI	VE INFORMATION	N		
1.	Environmen	nt Manager:	Tel:	Fax:	E-mail:
2.	Project Mai	nager: <u>David Burge</u>	ss Tel: 613-9	995-5891Fax	:: _613-947-1385
E-mail:	: david.burg	ess@nrcan.gc.ca			
3.	Does the ap	pplicant hold the neces	ssary property ri	ghts? N/A	
	Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. N/A				
5.	Duration of	the Project			
	X	One year or less St Multi Year:	tart and complet	ion dates:	
	Start: _Apr				_(to be performed annually
	into the future CLASSIF				
6.	Type of Car	mp			
	X 	Mobile (self-propell Temporary Seasonally Occupie Permanent Other:	d:		
7.	What is the	design, maximum an	d expected avera	age population of t	he camp? 2 persons
8.	Provide his	tory of the site if it ha	s been used in tl	ne past.	

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CAMP	HISTORY
Melville ice cap	Measurements began in 1963
Meighen ice cap	Measurements began in 1959
Devon ice cap	Measurements began in 1960
Agassiz ice cap	Measurements began in 1977

# **CAMP LOCATION**

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

All camps are located in the middle of ice caps except for the Melville camp which consists of a wooden hut approximately 700 m from the margin of the Melville ice cap.

- 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.
- Camps are selected based on proximity to the network of mass balance poles that are measured each year.
- All sites have been previously used (see item 8)
- No assistance from the Regional Inuit Association Land Manger was sought
- Maps and satellite images of study sites are attached
- 11. Is the camp or any aspect of the project located on:

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

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

Melville camp – Sachs Harbor (~550km South) Devon camp – Grise Fiord (~120km North East) Meighen camp – Eureka (~200km East) Agassiz camp – Eureka (~150km South West)

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

  YES
- 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

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PURP	OSE OF THE CAMP
15.	<ul> <li>Mining (includes exploration drilling)</li> <li>Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)</li> <li>(Omit questions # 16 to 21)</li> <li>X OtherResearch</li></ul>
16.	Activities (check all applicable)
	<ul> <li>□ Preliminary site visit</li> <li>□ Prospecting</li> <li>□ Geological mapping</li> <li>□ Geophysical survey</li> <li>□ Diamond drilling</li> <li>□ Reverse circulation drilling</li> <li>□ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)</li> <li>x Other: _Snow sampling_, Shallow ice core drilling (&lt;20m)</li> </ul>
17.	Type of deposit (exploration focus):
	Lead Zinc Diamond Gold Uranium x Other:Ice
DRIL	LING INFORMATION
18.	Drilling Activities
	Land Based drilling x Drilling on ice
19.	Describe what will be done with drill cuttings?
Ice chi	os will be left on ice cap.
20.	Describe what will be done with drill water?
N/A -	drill water is not used or generated as part of the drilling procedure
21.	List the brand names and constituents of the drill additives to be used? Includes MSDS sheet and provide confirmation that the additives are non-toxic and biodegradable.  Drilling fluids are not used.

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Will any core testing be done on site? Describe.

22.

## Stratigraphy of ice core will be logged by visual inspection on the Agassiz ice cap

## 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.
  - see SpillContingencyPlan.doc attached
- 24. How many spill kits will be on site and where will they be located?

No spill kits will be on site. The only chemicals used are fuels, which are all used outside. In the event of a spill, the substance will be soaked up with snow, which will then be contained in garbage bags or plastic containers and transported to Resolute Bay for proper disposal.

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

Gasoline will be stored on all ice caps (Devon, Melville, Meighen, and Agassiz) in 5 gallon jerry cans.

IOSOL (white gas) is stored in metal fuel bottles and 5 gallon jerry cans. We will have approximately 5 gallons of iosol on hand at any time.

The Devon summit camp also has stored approximately 2 barrels of heating oil (diesel fuel), 3 barrels of gasoline, and 4 barrels of Jet-B aviation fuel.

#### WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Ice caps – see NTS map sheets

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

X	Domestic Use: _	0.1	Water Source:melting snow
	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 intake will be performed by melting snow

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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. NO	Will water be stored on site?		
WAS'	TE TREATMENT AND DISPOSAL		
32.	Describe the characteristics, quantities, treatment and disposal methods for:		
	x Camp Sewage (blackwater)		
	Contained and transported to Resolute Bay		
	x Camp Greywater		
	Contained and transported to Resolute Bay		
	x Solid Waste		
	Transported back to Resolute Bay		
	Bulky Items/Scrap Metaln/a		
	☐ Waste Oil/Hazardous Waste		
	x Empty Barrels/Fuel Drums Transported back to Resolute Bay		
	Other:		

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

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34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?Transported back to Resolute Bay for disposal

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

N/A

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, None, None

#### ABANDONMENT AND RESTORATION

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

If abandonment was necessary, the wooden huts on Meighen and Melville ice caps would be dismantled and transported back to Resolute Bay. This however is an ongoing project and camps are not intended to ever be abandoned.

### **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.)*
	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

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<sup>\*</sup>Koerner, R.M. (2005): Mass balance of glaciers in the Queen Elizabeth Islands, Nunavut, Canada. Annals of Glaciology 42 (1): p.417-423.

- 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

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