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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Dan Utting and Marc St-Onge **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel: _____ Fax: _____ E-mail: _____

2. Project Manager: Dan Utting and Marc St-Onge Tel: Utting: (867) 979-3539 ex29 St-Onge: (613) 995-4935 Fax: Utting: (867) 979-0708 St-Onge: (613) 943-5318 E-mail: dutting@nrcan.gc.ca mstonge@nrcan.gc.ca

3. Does the applicant hold the necessary property rights?

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
   - [✓] Annual
   - [ ] Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: June, 2006 Completion: August 2006

CAMP CLASSIFICATION

6. Type of Camp
   - [ ] Mobile (self-propelled)
   - [✓] Temporary
   - [✓] Seasonally Occupied: _____
   - [ ] Permanent
   - [ ] Other: _____

7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

   Stationed at the base camp, there will be the following: 15 geologists and assistants, 2 helicopter pilot, 1 engineer, 1 cook and 1 cook's assistant, and up to 2 other visiting scientists. 22 at one time, 32 over the summer.

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

   There is no known use history of the sites.

CAMP LOCATION

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

The proposed Mingo Lake camp is on a glaciofluvial terrace west of Mingo Lake. The second camp is on a glaciomarine delta, about 10km north of Cape Dorset.

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.

Both sites were selected for their potential as a Twin Otter landing strip, using airphotos (see airphotos of proposed camps, attached).

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

[✓] Crown Lands Permit Number (s)/Expiry Date: application pending
[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____
[✓] Inuit Owned Lands Permit Number (s)/Expiry Date: application pending

12. Closest Communities (distance in km):

Mingo Lake Camp: Iqaluit (220 km), Cape Dorset (200 km)
Tellik Bay Camp: Cape Dorset (10 km)

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

The proposed project was presented to, and received unanimous approval from the Cape Dorset Municipal Council in January of 2006 (Record of Decision of the Municipal Council of Cape Dorset no. 215/05-06)

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?

Neither traditional water use, nor local fish and wildlife habitats will be affected by this study.

PURPOSE OF THE CAMP

15.
- ○ Mining
- ○ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ✓ Other Geological (scientific) mapping to stimulate the mineral exploration industry in this region. (Omit questions # 16 to 22)

16.
- ○ Preliminary site visit
- ○ Prospecting
- ✓ Geological mapping
- ○ Geophysical survey
- ○ Diamond drilling
- ○ Reverse circulation drilling
- ○ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ○ Other: _____

17. Type of deposit:

- ○ Lead Zinc
- ○ Diamond
- ○ Gold
- ○ Uranium
- ☑ Other: We will produce surficial, bedrock, and geophysical maps. The area has potential for diamond, gold, lead zinc and uranium deposits

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. Does the proponent have a spill contingency plan in place? Please include for review.

The Permittee shall report all spills immediately with instructions contained in "Spill Report" form NWT 1752 (05/93), the NWT Water Board's "Guidelines for Contingency Planning" (1987) and contact the Twenty-four (24) hour spill report line (867) 920-8130. The project's spill contigency plan is attached.

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

Three spill kits will be in camp: Kitchen, Generator station and Helicopter refueling area.

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

Jet B will be stored in standard 205L sealed fuel drums.
Gasoline will be stored in CSA approved 19L jerry cans
White gas will be stored in original containers
Propane will be stored in CSA approved 100 lb pressurized cylinders and stored according to MSDS requirements.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Water will be obtained from the river adjacent to the campsite.

27. Estimated demand (in L/day * person):

- ☑ Domestic Use: 25 L/day per person Water Source: River
- ○ Drilling Units: _____ 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? Describe:

Water intake will be accomplished with the use of a water pump. A mesh screened hose will be placed into the water source (river).

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.

WASTE TREATMENT AND DISPOSAL

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

☑ Camp Sewage (blackwater)

Buried.

☑ Camp Greywater

Buried.

☑ Solid Waste

If flammable (organic) it will be burned. If not, it will be back hauled to municipal landfill.

☑ Bulky Items/Scrap Metal

Back hauled to municipal landfill.

○ Waste Oil/Hazardous Waste

None.

☑ Empty Barrels/Fuel Drums

Back hauled to community for reuse.

○ Other:

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

Combustible waste, such as organics (ie. food scraps) will be incinerated in a used fuel drum.

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 be back hauled to municipal landfill (Iqaluit).

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

N/A

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

N/A

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?

This method has been used by many government researchers, and has worked quite well. As a contingency, water could be manually hauled (using containers) to the campsite.

ABANDONMENT AND RESTORATION

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

The camp will be returned to its original condition. All garbage will be picked up and grey water/ sewage pits will be adequately buried.

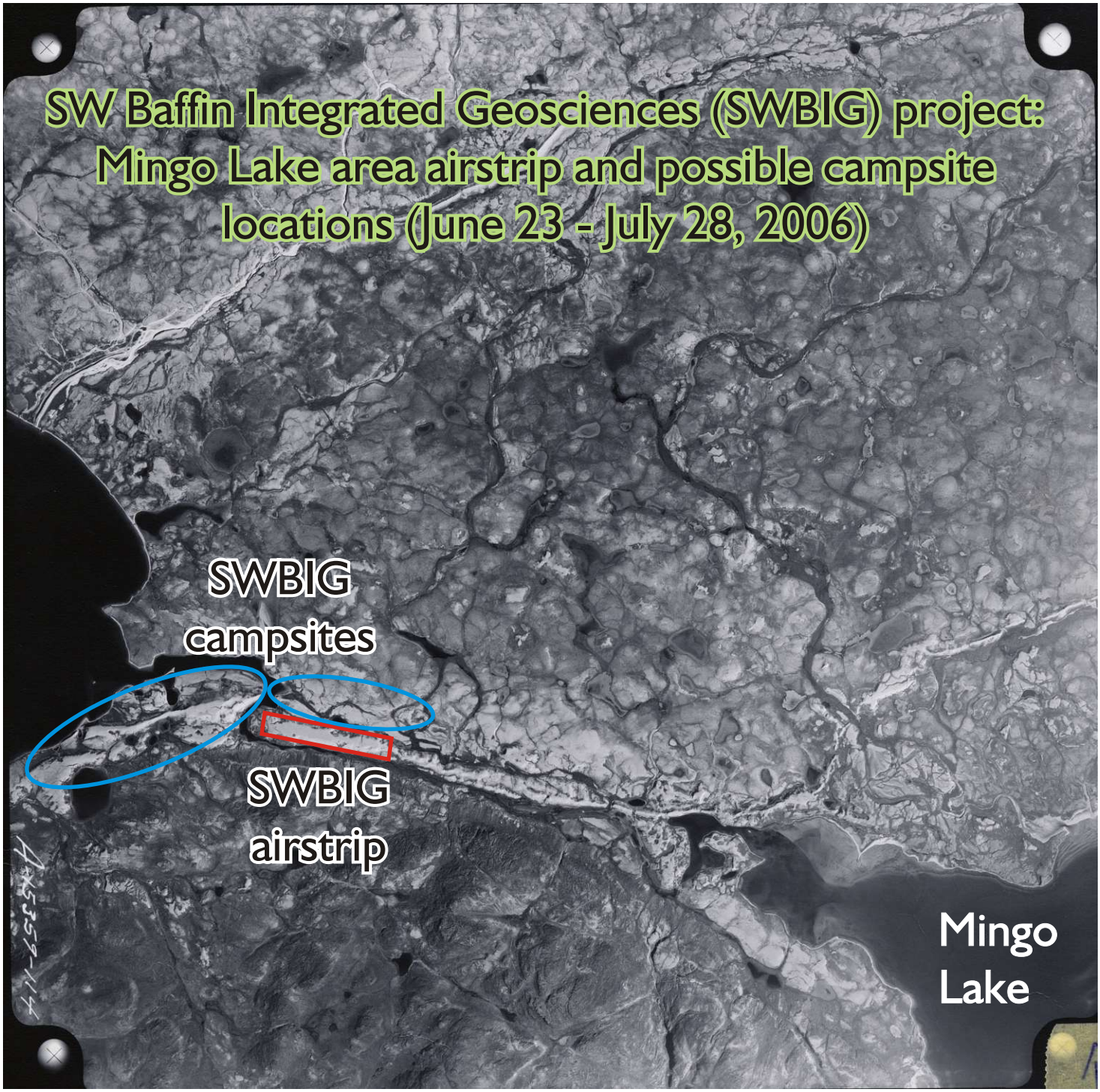
BASELINE DATA

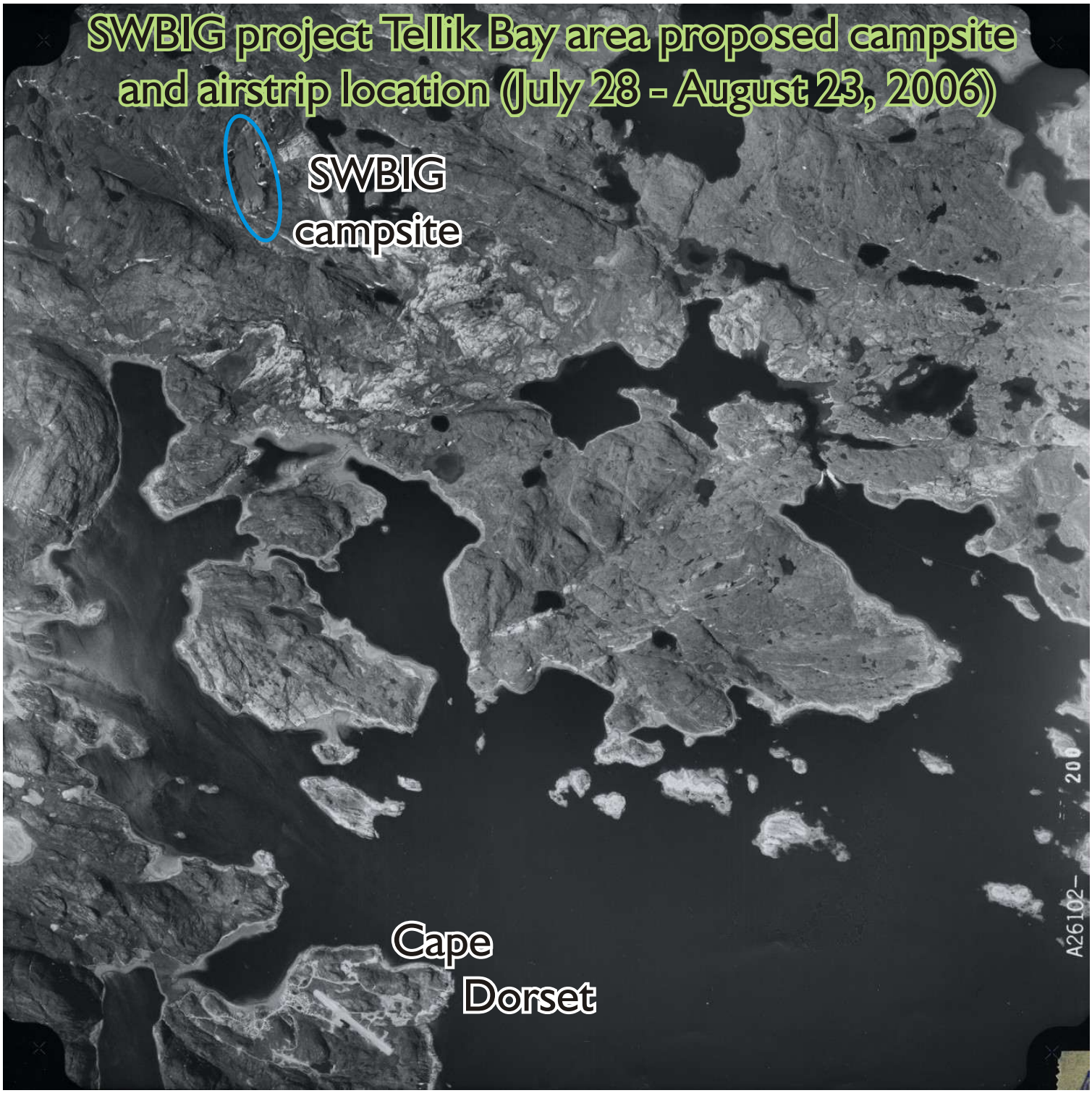
39. Has or will any baseline information be collected as part of this project? Provide bibliography.
    - ○ Physical Environment (Landscape and Terrain, Air, Water, etc.)
    - ○ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic
    - ○ Organisms, etc.)
    - ○ Socio-Economic Environment (Archaeology, Land and Resources Use,
    - ○ Demographics, Social and Culture Patterns, etc.)
    - ○ Other:

REGULATORY INFORMATION

40. Do you have a copy of
    - ○ Article 13 - Nunavut Land Claims Agreement
    - ○ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
    - ○ NWB - Interim Rules of Practice and Procedure for Public Hearings
    - ○ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
    - ○ NWTWB - Guidelines for Contingency Planning
    - ○ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
    - ○ Fisheries Act - s.35
    - ○ RWED - Environment Protection- Spill Contingency Regulations
    - ○ Canadian Drinking Water Quality Guidelines
    - ○ Public Health Act Camp Sanitation Regulations
    - ○ Public Health Act Water Supply Regulations
    - ○ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.


SW Baffin Integrated Geosciences (SWBIG) project:
Mingo Lake area airstrip and possible campsite
locations (June 23 - July 28, 2006)
SWBIG
campsites
SWBIG
airstrip
Mingo
Lake


SWBIG project Tellik Bay area proposed campsite and airstrip location (July 28 - August 23, 2006)
SWBIG campsite
Cape Dorset
A26102-

Canada–Nunavut Geoscience Office and Geological Survey of Canada's Spill Contingency Plan for the Southwest Baffin Project

The Southwest Baffin Integrated Geoscience Project will make use of two field camps, one west of Mingo Lake, the second 10 km north of Cape Dorset. At each site the following types of fuel will be used: aviation fuel (Jet-B, stored in standard 205L sealed fuel drums), gasoline (stored in CSA approved 19L jerry cans) and propane (stored in CSA approved 100 lb pressurized cylinders). This document outlines the organization of the response, the plan for initial response, reporting procedures in the event of a spill, and spill kits maintained on site.

Response Organization:

The first person on the site will (1) assess the spill situation, (2) immediately contact the field Party Chief and provide all information about the spill.
Upon receiving this information, the Party Chief will recommend a course of action, follows this procedure:
(a) Evaluates the scale of the spill.
(b) Activates the initial response plan.
(c) Assembles a spill response team and directs them in implementing the spill response plan including containment, recovery, remediation, and disposal operations.
(d) Calls the NWT 24 Hour Spill Line at (867) 920-8130 as soon as possible to report the spill and provide initial incident details. A NWT Spill Report Form will be faxed to (867) 873-6924.
(e) Gathers relevant information and submits a detailed spill report to the applicable regulatory agencies no later than thirty (30) days after the initial reporting of the spill.

Initial response plan:

The first person at the site will ensure safety of himself and those near the site. Next he will notify the Party Chief about the spill.
Gasoline:
If possible and safety permits, stop the flow and eliminate ignition sources. Gasoline forms vapors that can ignite and explode. No smoking is permitted when responding to a gasoline spill. Use particulate sorbent material to soak up the spill. All contaminated water, snow/ice, soils, clean up supplies, and absorbent materials will be stored in closed, labeled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.
Aviation Fuel:
If possible and safety permits, stop the flow and eliminate ignition sources. Aviation fuel forms vapors that can ignite and explode, so no smoking is permitted when responding to an aviation fuel spill. Use particulate sorbent material to soak up the spill. All contaminated water, snow/ice, soils, clean up supplies, and absorbent materials will be stored in closed, labeled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Propane:
If possible and safety permits, eliminate all ignition sources. No smoking is permitted when responding to a propane release. Do not attempt to contain or remove release. No disposal is required, as it cannot be contained once it has been released.

Reporting Procedure:
1. Fill out **"SPILL REPORT"** form as completely as possible before making the report.
2. Report IMMEDIATELY to Yellowknife using the 24 hour Spill Report Line. 24 HOUR SPILL REPORT LINE **(867) 920-8130**
3. Where FAX is available, follow up by sending a copy of the spill Report to **FAX # (867) 873-6924**
4. RCMP communications may be used if other means are not available.
5. DIAND's Water Resources Inspector ((867)-975-4298) will also be notified.

Spill Kits:
We will have spill kits available in the field camp. Each kit will be inspected by the Party Chief on a regular basis to ensure it contains the following:

1 package of 10 disposable 5 mil polyethylene bags.
10 lb. Bag of particulate
1 bail of 17' x 19' x absorbent sheets (100 sheets/bail)
2 PVC oil resistant gloves
2 respirators
2 pairs of splash protective goggles.

Contacts:
DIAND Water Resources ((867) 975-4555)
Environment Canada ((867) 975-4636)
INAC Environment and Contaminants ((867)-975-4549)