

To: The Nunavut Water Board
Object: Spill contingency Plan

MONITORING ARCTIC TEMPERATURE AND SNOW COVER TRENDS USING SATELLITE REMOTE SENSING

The scientific project will be located on the Barnes Ice Cap on Baffin Island. Our research group plan on setting up a temporary camp near the summit plateau. The following fuel will be used only for generator and heating purposes: gasoline and kerosene. About 100L of gasoline will be necessary for our two week long project, and about 20L of kerosene. The gasoline will be contained in fuel drums whereas smaller sealed containers are to be used for the kerosene. 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:

In the event of a spill, the first person on site will immediately try to contain the spill, and immediately contact a team member to assist in any way. We will have a crew of 6 scientists, one of them being the chief scientist. It will be the chief scientist's responsibility to:

- evaluate the scale of the spill;
- proceed to cleaning with available on-site spill kit;
- report the spill according to NT-NU spill report procedure

Initial Response Plan:

The first person at the site will ensure safety of himself and those near the site. Next he will notify the chief scientist 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, labelled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Kerosene:

If possible and safety permits, eliminate all ignition sources. All contaminated water, snow/ice, soils, clean up supplies, and absorbent materials will be stored in closed, labelled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Reporting Procedure:

1. Fill out "**SPILL REPORT**" interactive .pdf form as completely as possible before making the report.
2. when transiting back to Iqaluit at the end of the project, follow up by sending a copy of the spill Report to **FAX # (867) 873-6924**

Given the small amount of fuel implicated in an unlikely spill from our project, we believe those steps are sufficient in terms of reporting.

Spill Kits:

We will have spill kits available in the field camp. Fuel will only be transferred by sealed air-pump at the camp itself.

Scientific contact and project manager:

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