# MESOPROTEROZOIC BASINS OF THE EASTERN ARCTIC ISLANDS, NU Spill Contingency Plan (Prepared Feb. 11, 2011) E. Turner, Laurentian University

### **Project**

This project 3BC-MBP1010 will be licenced by renewal of an existing three-year science licence from NRI. The work is part of a longer-term research program that seeks to understand the geological evolution of the eastern Arctic Islands of Nunavut about 1.2 billion years ago. The field work involves simple dimensional measurements and collection of small rock samples using a geological hammer. All work will be done on foot on northern Baffin Island by a party of 2-3 people working from a base camp consisting of 2-3 two-person backpacking-type tents. The camp will be moved every 1-2 weeks by helicopter. We will use approximately 10 litres of water per day for cooking and drinking.

The only fuel or chemicals on site will be approximately 10 litres of naptha (camping fuel) for cooking. We will have a standard portable universal spill kit in our equipment cache.

# **Responsible Person**

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# **Purpose**

This document outlines the response we will take if our fuel (10 litres of naptha) should be spilled.

# Field work description

The field research consists of rock descriptions, measurements of rock layering made using a special measuring rod, and collection of a suite of small rock samples using a geological hammer. There will be no motorised equipment, explosives, or chemicals other than our 10 litres of cooking fuel.

#### **Site description**

Work will be conducted on foot from a succession of three base camps (2-3 backpacking tents), each placed by helicopter near a small stream. The general area of this year's sites is between Arctic Bay and Pond Inlet, in two inland areas in NTS 48A and B (see appendix). The camps and grey water pit will be located 100 m from the stream. The water taken from the stream will be used only for cooking and drinking. This is a university-based science research project and all logistics will be under the auspices of PCSP.

#### Hazardous Materials on site

The only hazardous materials in camp will be approximately 10 litres of naptha (white gas) used for cooking.

The SPC universal portable spill kit SKA-PP we will have on site (stored with the 10 litres of naptha) contains pads capable of absorbing 19 litres (almost twice the volume of fuel that will be present on site).

# Spill response procedures

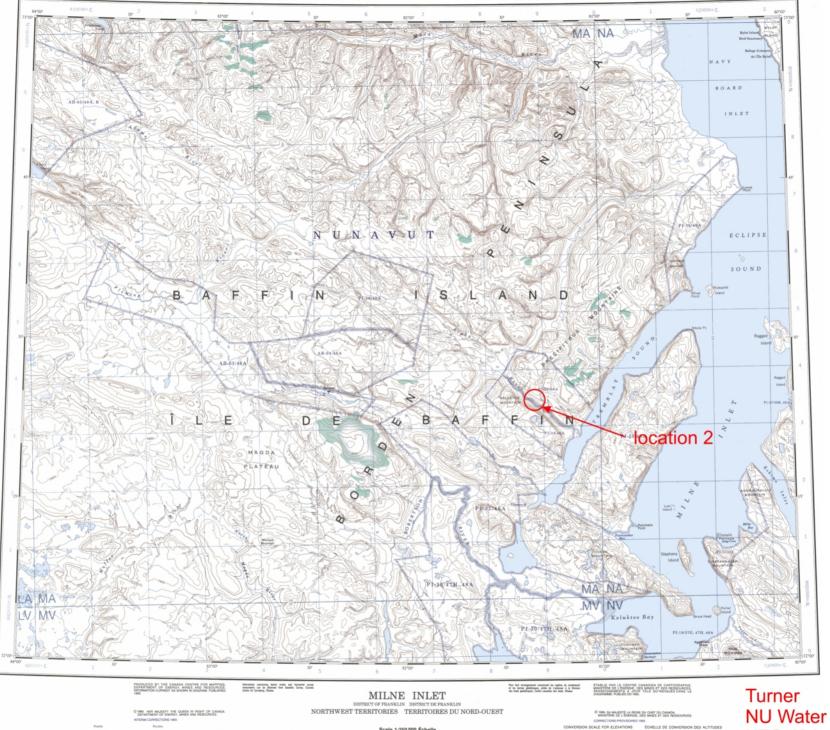
Our 10 litres of naptha are volatile liquids. Given the small quantity and rapid evaporation of naptha, there is very little chance for a significant spill. The first person to encounter a spill will assess the spill situation, contact the party chief (Turner) or designate, and provide all information about the spill. The spilled fuel will be absorbed using pads from the spill kit. The absorbent capacity of the kit greatly exceeds the volume of fuel that will be on site, minimising any potential for leakage into water courses. The absorbent pads will then be allowed to evaporate (naptha evaporates extremely quickly) and then burned.

# **Reporting**

In the event of a spill, we will fill out the spill report and report to the spill report line in Yellowknife (867-920-8130).

#### **Contacts**

INAC Water Resources Inspector 867 975-4295 Environment Canada Enforcement Officer 867 975-4644 PCSP Base Manager 867 252-3872





**NU Water Board NTS 48A** 

