

## Navigator Exploration Corp. Spill Response Plan

## Spill Response Plan

A spill is classified as the discharge of petroleum products or other dangerous substances into the environment. Potential hazards created by the spill for humans, vegetation, water resources, fish and wildlife vary in severity, depending on several factors, including nature of the material, quantity spilled, location and season. The general response to be followed in the event of a spill is:

*Identify the product - check container design, warning labels, markings, etc.*

*Protect people* - prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion

*Stop the flow at the source* - reduce or terminate the flow of product without endangering anyone

**Assess the seriousness of the spill** - evaluate potential dangers of the spill to human health and safety, the aquatic environment, wildlife, ground water, vegetation and other land resources

**Report the spill** - provide basic information such as location of spill, name of polluter, type and amount of material spilled, date and time of the spill and any perceived threat to human health or the environment (complete NWT Spill Report form)

*Clean up the spill - follow procedures appropriate for the location, environment, and material and time of year*

**Detailed Report** – A detailed report of the spill (including GPS location) must be submitted to the DIAND Water Resources Inspector less than 30 days after the spill is reported.

**24-Hour Spill Report Line (867) 920-8130 or fax (867) 920-8127**

**DLAND Water Resources Inspector (867) 975-4298**

**Environment Canada (Nunavut) (867) 975-4639**

Nunavut Water  
Board

MAY 2

## Public Registry

## Detailed Response Plan

(a) On-site person in charge, management or control of contaminants

Robin Hopkins; Navigator Exploration Corp. (camp phone-to be determined)

(b) Name and address of employer of personnel described in part (a)

Navigator Exploration Corp.  
Suite 1300 – 409 Granville Street

INTERNAL	
PC	dp
MA	
FO	
LA	
DS	
MAZ	
RC	
FO	
CH	
BRD	
EXT	

Vancouver, BC  
V6C 1T2  
phone: (604) 668-8355  
fax: (604) 685-8366

*(c) Description of the facility*

Facility — Camp (not located on within permit area)

Locations — Fuel will be stored in the appropriate facility a safe distance from the accommodations and well away (>100m) from water bodies

Size - Fuel stored at above ground facility in sealed 205 litre (45 gal.) steel drums

Storage Capacity — Maximum fuel stored at camp will be 19 drums (3895 litres) of Jet-B and diesel combined, plus 1+ 100lb-propane tanks.

A minor amount of fuel will be stored for no more than four days at the drill site, and removed promptly upon completion of each drill hole. On-site storage will be a safe distance from drilling activities, with fuel stored in sealed steel drums. Maximum fuel storage will be 4 drums (820L) including Jet-B and diesel, plus 1- 100lb propane tank.

*(d) Description of the type and amount of potential contaminants normally stored at camp (not within permit area)*

JET B fuel for the helicopter — 3485 litres (17 drums)  
Propane for heating, etc. - One (1) 100 lb. tank

*Description of the type and amount of potential contaminants normally stored temporarily at the drill site (see attached map for co-ordinates)*

JET B fuel for the helicopter — 410 litres (2 drums)  
Diesel for the drill — 410 litres (2 drums)  
Propane for heating, etc. - One (1) 100 lb. tank

*(e) Steps to be taken to report, contain, clean up and dispose of a contaminant in the case of a spill*

Preventative Measures

Fuel drums will be monitored for any signs of leakage:

- (i) Immediately after they arrive on-site,
- (ii) Once they have been transported to the designated storage area, and
- (iii) Periodically after that time (i.e. as the stocks are accessed).

Drums will be stored upright on flat stable terrain during the summer to reduce chances of a leak. If available a natural depression situated well away from water bodies will be utilized for storage. The contents of any drum that

leaks, or shows the potential to leak, will be transferred by wobble pump to a different drum. With the exception of the container in use, all fuel container outlets will be kept sealed to prevent leakage. On-site equipment (e.g. helicopter) will be refueled at some distance from the main storage facilities to reduce potential damage should a fire occur.

### Reporting

- (i) Identify the product - check container design, warning labels, markings, etc.
- (ii) Protect people - prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion
- (iii) Stop the flow at the source - reduce or terminate the flow of product without endangering anyone
- (iv) Assess the seriousness of the spill - evaluate potential dangers of the spill to human health and safety, the aquatic environment, wildlife, ground water, vegetation and other land resources
- (v) Report the spill to the 24-Hour Spill Report Line (867) 920-8130 - provide basic information such as location of spill, direction of motion if any, name of contact on-site, type and amount of material spilled, cause of spill, date and time of the spill and any perceived threat to human health or the environment (complete Spill Report form)
- (vi) Report the spill to Stornoways office in Vancouver
- (vii) Depending on severity of the spill, report to the other appropriate authorities (i.e. Nunavut Water Board, Department of Fisheries and Oceans; Regional Inuit Association)

### Containment

Oil spill containment techniques include:

- (i) Earth dams - simple and effective control means for surface and small streams
- (ii) Interceptor trenches - control on land and shallow subsurface seepage
- (iii) Culvert weirs - not applicable
- (iv) Underflow dams - effective in narrow ditch or stream
- (v) Net and absorbent barriers - effective in tundra area and slow moving water
- (vi) Containment booms - commercial product for large bodies of water
- (vii) Space spraying or 'herding' - using a very fine water spray as a means of cleaning vegetation, shorelines, lake surface, etc.
- (viii) Absorbent materials - include fine sand, soil or snow; commercial sorbents include sheets, rolls, pillows and booms that can be rapidly deployed with no preparation

On-site equipment available for employees include:

Spill Kit (containing 1 20L Poly containment pail, 12 or more 16" x 20" oil absorbent pads, 2-3" by 48" oil absorbent socks, 1 heavy duty disposal bag (6 mil), 1 pair Chemi-pro gloves and 3 lbs of All Purpose absorbent.), Shovels, and a garden sprayer will be available for spill containment measures.

### Clean up

The most likely spill scenario is the partial loss of petroleum products from one of the 205 l (45 gal.) drums. Drums will be checked on arrival in camp, after transfer to the designated storage facility and periodically thereafter. Contents of any leaking drum will be immediately transferred via wobble pump to an empty, leak free drum. It is unlikely that more than one drum will leak at any time. Any spills will be contained, and pumped into empty barrels.

### Disposal

No organic soils are present at the proposed storage site, and if possible, any sands and gravels contaminated by a significant spill of petroleum products will be excavated by hand, incinerated to remove hydrocarbons, and returned to their natural site.

### Training

All employees and contractors will be oriented upon arrival to the site as to the location and nature of possible spill hazards, as well as the location, content, and usage of spill kits, and locally available materials to control a spill. A brief exercise will be conducted after orientation to clearly outline the spill response protocol, and ensure the employee's comfort with the plan.

### *Consultations:*

Contingency Planning and Spill Reporting in the NWT - A guide to the new regulations, GNWT, 8pp. June, 2002.

Oil Spill Containment and Clean up Techniques - 22 minute instructional video prepared by NWT Renewable Resources Pollution Control Division, 1988.

Report All Spills - Environment Series, GNWT Renewable Resources, Pollution Control Division, 1988.

Spill Containment and Clean-up Course, GNWT Renewable Resources, Pollution Control Division, 1991, 74pp.

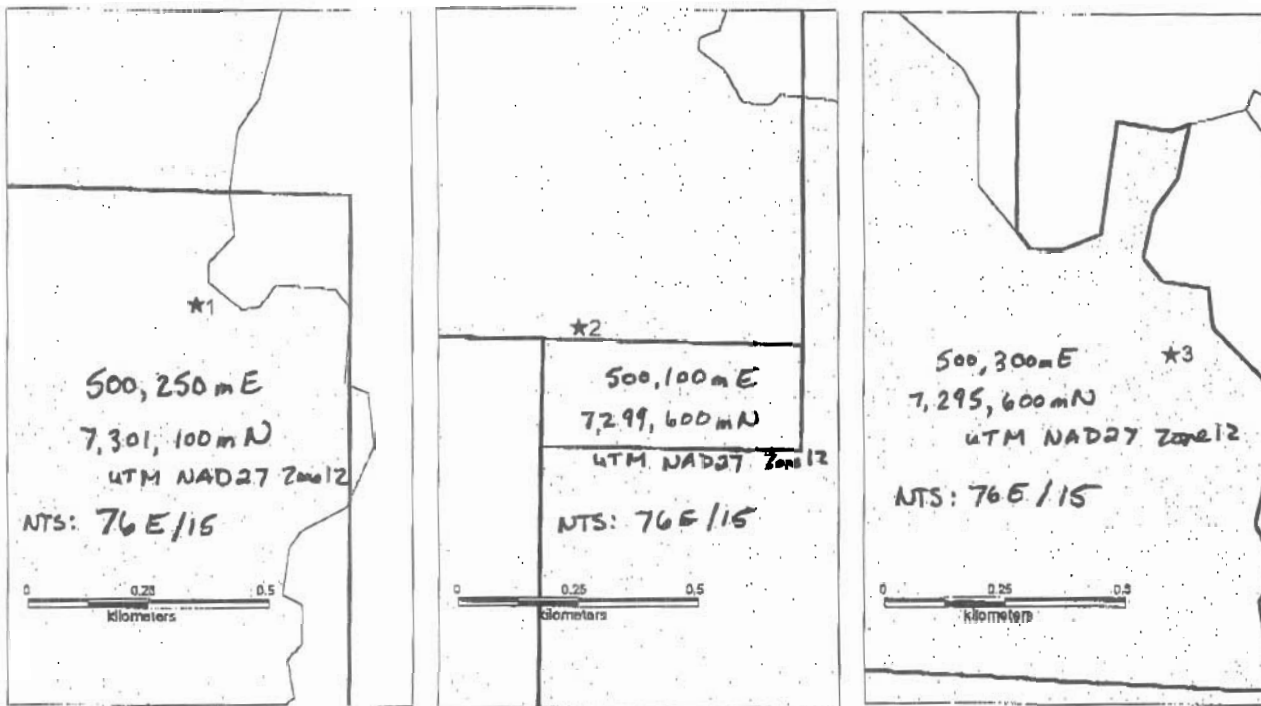
Spill Contingency Planning and Reporting Regulations - Environmental Protection Act - Northwest Territories, July 22, 1993, 11pp.

Spills, Our Record in the Northwest Territories - Environment Series, GNWT Renewable Resources, Culture and Communications, 1990

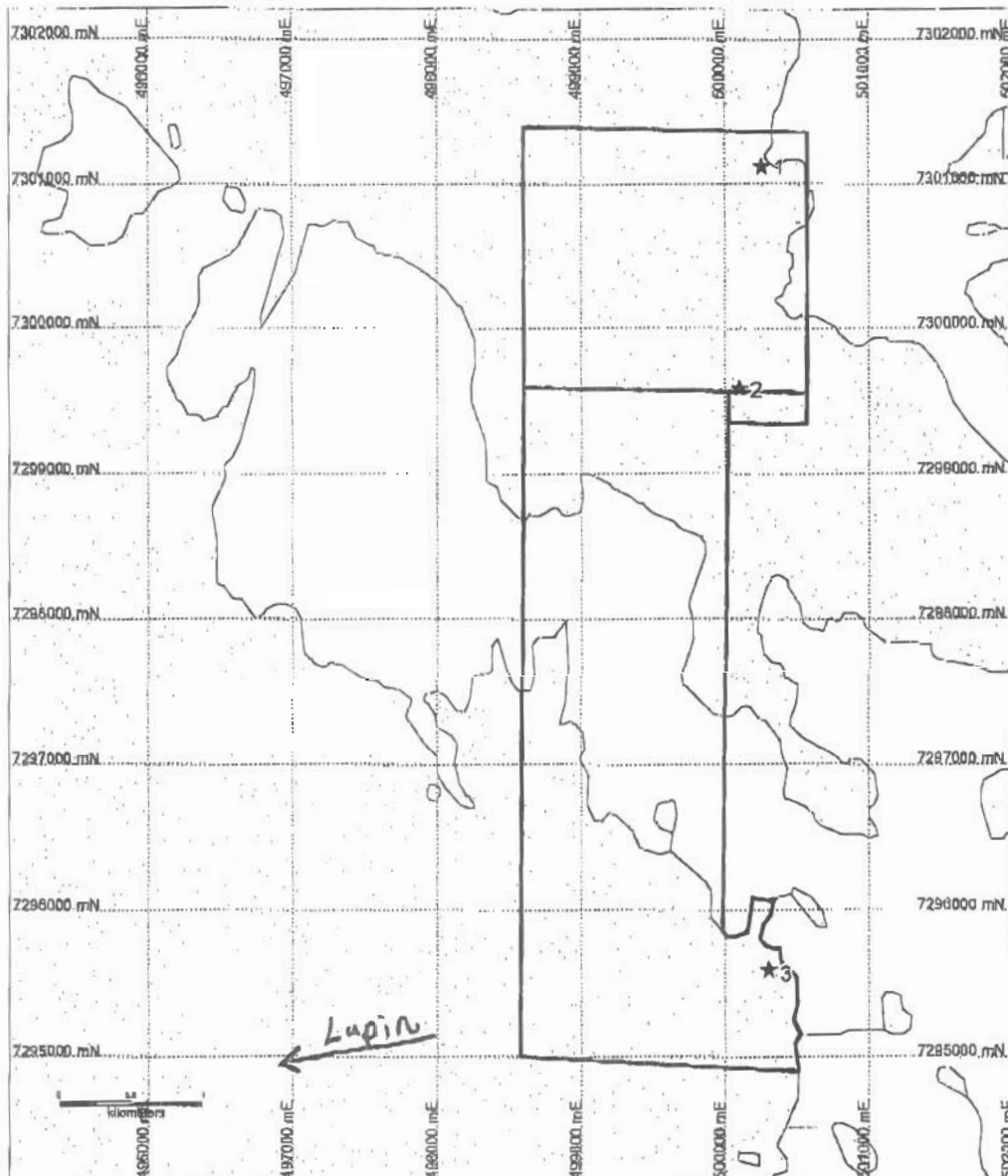
Hazardous Substance Specialist  
Environmental Protection Division  
Renewable Resources  
Government of the NWT  
600, 5102-50th Ave.  
Yellowknife NWT  
X1A 3S8

telephone: (867) 873-7654  
facsimile: (867) 873-0221

Updated: May, 2004



### Drill Hole Locations



Water Licence:  
NWB2CNT

Fuel Storage at  
Lupin Minesite  
489,380 mE  
7,293,730 mN  
UTM NAD27 Zone 12  
NTS: 76E/14

