

Contingency Plan

**For the 2004 Exploration Program
Somerset Island**

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1.0 Introduction

This plan has been developed as part of a commitment by Emnak Exploration Ltd., to minimize any detrimental effect its operations may have on the environment. The focus of the plan will be on the exploration camp flight operations and the related support activities that are the responsibility of Emnak Exploration Ltd.

The plan is designed to combat spills on land and/or into watercourses.

As the need arises Emnak may enter into agreements for the sharing of expertise and equipment with other companies, municipalities and resource agencies.

The Plan will be updated and revised as required.

2.0 Reporting Procedures

ORGANIZATION AND RESPONSIBILITIES

The overall responsibility for the contingency plan lies with

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The onsite responsibility for the plan lies with Emnak's project manager will be the On-site Coordinator, (OSC):.

Chief Geologist: Neil Willoughby, B.Sc.H.
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This responsibility may be transferred or fulfilled by the Matrix Aviation Solutions camp manager when the situation call for it. This camp manager has not be identified as yet but the name will be provided to regulators before the camp is in operation. Contact information is as follows:

Matrix Aviation Solutions Inc
#8 Yellowknife Airport
Yellowknife, NT X1A 3T2

Telephone: 867-766-4952

Fax: 867-766-3374

Contractors, sub-contractors and suppliers will provide assistance in all phases of a clean up as directed by the OSC. In the event that a contractor, sub-contractor or supplier or their employees causes a spill, Emnak Exploration Ltd will charge clean-up and disposal expenses to the responsible party. The OSC will:

1. Be familiar with fuel spill procedures, equipment and contact numbers.
2. Provide liaison with Territorial Government Emergency Programs, Ministry of Environment and Department of Fisheries personnel where applicable.
3. Direct the actions of personnel during clean-up operations.
4. Familiarize key personnel with fuel spill equipment and procedures.
5. Prepare a report on all aspects of any spill.

There will be a satellite phone in the camp and the number will be provided to the government of Nunavut before the camp is operational.

3.0 Site Information

Fuel stored on site will be	Jet B – 150 Barrels (205 liters each)	Total = 30,779 liters
	Diesel for Heating – 30 Barrels)	Total = 6,150 liters
Total petroleum products storage on site		= 36,949 liters

Propane will be flown from the nearest community in 100 pound bottles as required.

4.0 Failure Prevention

The system components where spills are most likely to occur are:

Petroleum Products and Other Fuels

- Drummed product: Leaks or ruptures may occur. This includes drums of Jet B, Waste Fuel, Waste Oil.
- Fuel cylinders: Propane, leaks may occur at the valves. All cylinders are secured at all times.
- Vehicles and equipment: Wheeled vehicles and equipment, aircraft (fixed and rotary wing), snowmobiles, generators, pumps. Incidents involving leaking or dripping fuels and oils may occur due to malfunctions, impact damage, and lack of regular maintenance,

improper storage, or faulty operation.

The risk of spills will be reduced through regular inspection and maintenance of all storage areas and equipment associated with fuel handling in accordance with recognized and accepted standard practices at all Emnak camps. These include:

- Routine checks of fuel transfer hoses and cam lock.
- Carefully monitor fuel content in the receiving vessel during transfer.
- Cleaning up drips and minor spills immediately.
- Regularly inspect drums, tanks and hoses for leaks or potential to leak.
- Training personnel, especially those who will be operators, in proper fuel handling and spill response procedures.

A record of these inspections and any remedial action will be maintained in camp.

Spill response training is provided to personnel who handle fuels and other petroleum products, and at least one emergency response drill will be held during the season. A report will be prepared by the response coordinator following each drill, noting response time, personnel involved and any problems or deficiencies encountered. This report will be used to evaluate emergency response capability and remedy any deficiencies if required.

Two oil/fuel spill kits are positioned at all camps. A 5 gallon spill kit will be positioned in the general camp area and will be used for minor spills and drips. A 45 gallon spill kit will be placed in the area of the fuel storage for any major events.

5.0 Response Action

Discovery of a fuel spill

Upon discovery of a spill personnel will immediately

- a) identify the product that is spilling, or has spilled;
- b) assess immediate hazards, and ensure all on-site persons are aware of them;
- c) secure the site, and,
- d) commence initial notification of appropriate personnel and agencies.

Identification/Assessment of spill

This step is critical to ensure the safety of responders, and to minimize the impact to the environment. The assessment should include:

- a) reassess the material spilled and quantity spilled;
- b) reassess any immediate hazards;
- c) identify all the safety issues that need to be dealt with before taking action. These include ignition sources, protective clothing and public safety.
- e) Refer to Material Safety Data Sheets for product identification and handling.

Notification

The On Site Coordinator will take note of the following information from the discoverer of the spill:

- a) discoverer's name
- b) time and location of the spill;
- c) material spilled and approximate quantity;
- d) cause of spill if known;
- e) weather conditions;
- f) action taken so far,
- g) immediate serious threats (water courses, fire)

The OSC will then make the following contacts as required and dependent on seriousness or threat:

1. Immediately notify the Emnak corporate office.
2. The SPILL LINE and/or the DIAND 24HourLine at:
 - a. Spill Line Tel.1-867-920-8130, fax. 1-867-873-6924.**
 - b. DIAND Tel. 1-867-975-4297**
3. Spill Report Form (Appendix 2) is filled out as completely as soon as possible before or after contacting the 24 Hour Spill Line.
4. Other members of the response team are notified as deemed necessary
5. Other contacts for spill response/assistance as necessary

Environment Canada	Sid Bruinsma	1 867-975-4644
Indian and Northern Affairs	Land Use Inspection	1 867-975-4298
Fisheries and Oceans Canada	Keith Pelly	1 867-979-8024

Action

This part of the plan will reconfirm steps that need to be followed when taking action. The person who takes charge is responsible and should:

- i) ensure the use of trained personnel is prioritized when possible;
- ii) brief responders on safety issues, first aid procedures for material involved;
- iii) secure the site from access;
- iv) ensure responders are wearing appropriate protective equipment;
- v) eliminate all sources of ignition;
- vi) stop the source of the spill or contamination
- vii) remain at the scene and use every effort to contain the spill until such time as help arrives. This would include the arrival of the OSC, or agency of authority.

Procedure for Spills on Rock

For hydrocarbon spills on rock outcrops, boulder fields, etc.:

1. First responder or his designate obtains plastic tarp(s) and absorbent sheeting on-site.

2. A berm of peat, native soil or snow is constructed down slope of the seepage or spill. the tarp is placed in such a way that the fuel can pool for collection and removal (e.g. at the foot of the berm). If there is a large volume of spilled product, pump the liquid into spare empty drums for sealing and disposal.
3. Absorbent sheeting is placed on the rock to soak up spilled oil, fuel, etc.
4. Multi Sorb (crushed lava rock) can be used to scrub the rock surface.
5. Saturated material is disposed of in an empty drum, which is then labeled and sealed. Alternatively, the pads may be wrung out into the empty drum(s), the drums marked and then secured for eventual disposal.
6. Depending on the nature and volume of the spill, the 24-Hour Spill Line may be contacted after Step 4 or Step 5.

Procedure for Spills on Land

1. First responder or his designate obtains plastic tarp(s), absorbent sheeting, Multi Sorb or other ultra-dry absorbent and any other necessary spill containment equipment, pump, hoses, etc.
2. A berm of peat, native soil or snow is constructed down slope of the seepage or spill. The tarp is placed in such away that the fuel can pool for collection and removal (e.g. at the fool of the berm).
3. If there is a large volume of spilled product, pump the liquid into spare empty drums, and dispose of product as advised by the 24-Hour Spill Line.
4. Petroleum-product sheen on vegetation may be controlled by applying a thin dusting of Multi Sorb or other ultra-dry absorbent to the groundcover.
5. Contact the 24-Hour Spill Line, Receive instructions from the appropriate contact agencies listed in Section 5.4 regarding collection of the contaminated soil or vegetation, its removal and site cleanup/restoration.

Fuel Spills on Water

It is important to immediately limit the extent of spills. The following is the procedure to be implemented when an incident occurs:

1. If the spill is small, deploy hydrophobic (water repellent) absorbent pads on the water. Hydrophobic pads readily absorb hydrocarbons. Alternatively, an ultra-dry absorbent designed for use on water-based spills may be deployed.
2. If the spill is larger, ready several empty drums to act as refuge containers for the spill.
3. Deploy containment booms on the water surface to "fence in" the spill area gradually and to prevent it from spreading. Keep in mind those environmental factors such as high winds and wave action can adversely affect attempts at spill cleanup. Absorbent booms can then be deployed to encircle and then absorb any hydrocarbon spillage that may have escaped the containment boom.
4. Once a boom has been secured, a skimmer may be brought on-scene to aid in capture of the hydrocarbon; once captured, the product should be pumped to the empty fuel drums and held for disposal.
5. As soon as possible either during or after the incident, contact the 24-Hour Spill Line. (This will ensure government agencies are informed).

Fuel spills on Snow and Ice

By its nature, snow is an absorbent, and fuel spilled on snow is collected with relative ease, either by shovel, in the case of small-range spills, and by loader, in the case of more extensive spills.

1. Assess the nature of the spill. Necessary equipment might include shovels, plastic tarp(s), empty drums, and wheeled equipment.
2. Shovel or scrape contaminated snow and deposit in empty refuge drums. If the spill is more extensive, build peat-bale berms or compacted snow berms with plastic over top, around the affected area.
3. Either during or immediately after the accident, notify the 24-Hour Spill Line. Receive instructions on the preferred disposal method (e.g. storage in sealed drums, incineration or deposit in a designated lined containment area on land) from the appropriate contact agencies.

Procedure for spills on Ice

Spills on ice are handled in similar fashion as those on snow. However, as ice presents the added danger of immediate access to water, care must be taken to respond quickly to such spills. Should fuel seep or flow through cracks or breaks in the ice, despite all precautions, assistance should be sought immediately.

1. Construct a compacted-snow berm around the edge of the spill area.
2. Although hard ice will retard or prevent fuel entry to the receiving waters below, all contaminated snow and ice, as well as objects embedded in the ice (such as gravel or frozen absorbent pads) must be scraped from the ice surface and disposed of in an appropriated manner. Contact the 24-Hour Spill Line. Receive disposal instructions (e.g. sealing in drums, burn off, etc.) from the appropriate contact agencies.

Procedure for Loss of External Load

The loss of external loads of fuel, oil, or chemicals from aircraft almost certainly results in complete and catastrophic failure of the container that once held the product. Immediate response is imperative.

1. Mark the loss target with GPS coordinates and relay to camp or base ASAP. Include
2. quantity and type of load loss.
3. Base or camp will contact 24 Hour Spill Line, and receive direction and instruction. Administer the appropriate procedure for Spills on Land, Water, Snow, or Ice

6.0 Response Equipment

Complete spill kits, oil absorbent kits, are kept on hand at all camps.

7.0 Training Exercises

All members of the Response Team will be familiar with the spill response resources at hand, this Contingency Plan, and appropriate spill response methods. This familiarity will be acquired through:

1. Initial or refresher training, as appropriate, provided once per season.
2. Regular inventory updates are provided in list form to all team members. Information to be reported includes listing of all resources, number of items, their location, condition, date of last inspection and any special comments (such as expiry dates, under whose authority they may be accessed and special handling instructions).

Practice Drills

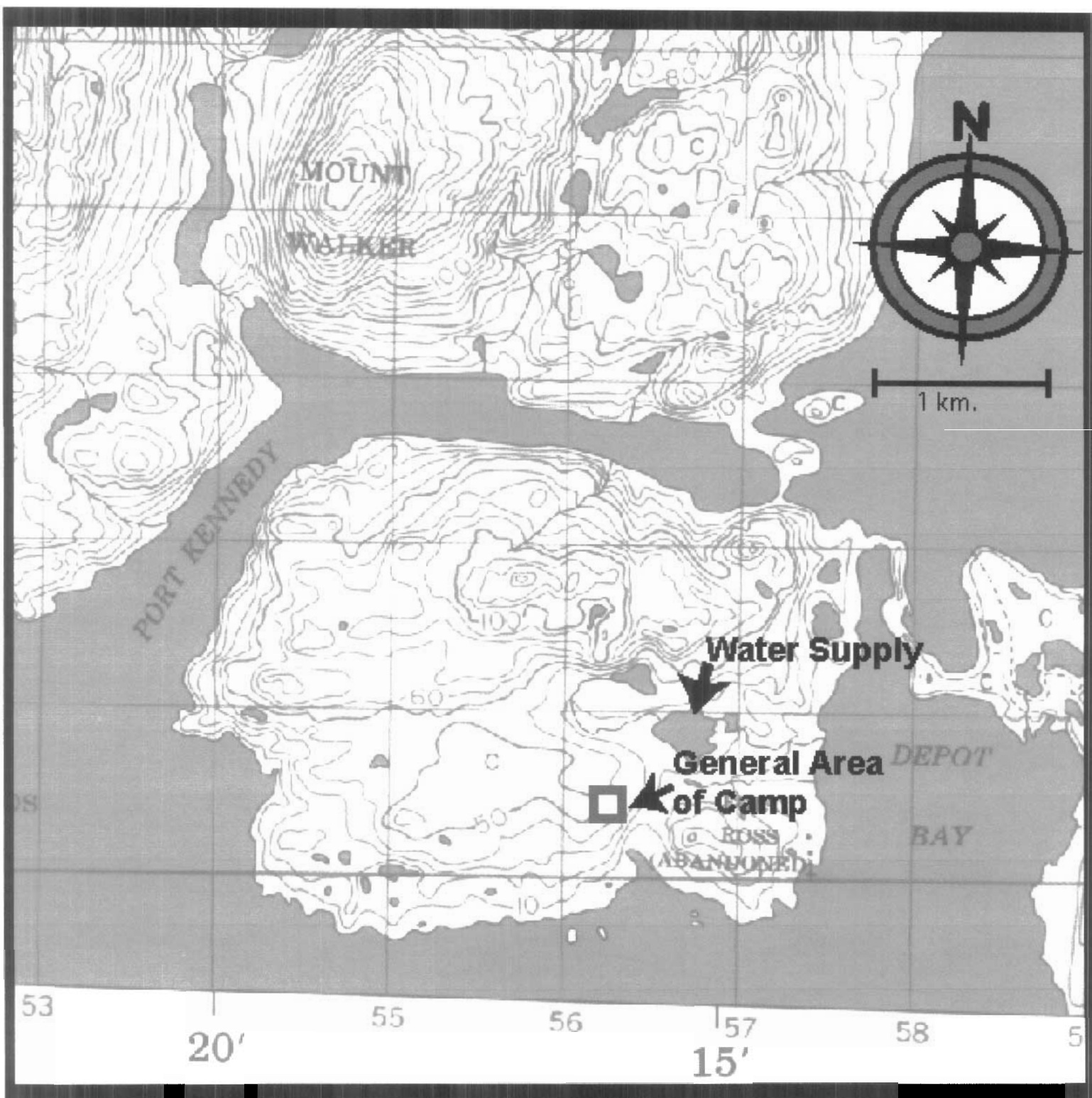
Emnak. is aware that without practice, no Contingency Plan has value. At least one practice drill will be held per season to give personnel a chance to practice emergency response skills. Each practice will be evaluated and a report prepared with the objective of learning where gaps and deficiencies (either in skills or physical resources) exist, and in what areas more practice is required.

NUNAVUT WATER BOARD

P.O. Box 119

GJOA HAVEN, NU X0E 1J0

TEL: (867) 360-6338



General Location of Enmak Camp near Fort Ross Somerset Island



NWT SPILL REPORT

(Oil, Gas, Hazardous Chemicals or other Materials)

24 – Hour Report Line
Phone: (867) 920-8130
Fax: (867) 873-6924

A Report Date and Time		B Date and Time of spill (if known)		C <input type="checkbox"/> Original Report <input type="checkbox"/> Update no. _____		Spill Number	
D Location and map coordinates (if known) and direction (if moving)							
E Partly responsible for spill							
F Product(s) spilled and estimated quantities (provide metric volumes/weights if possible)							
G Cause of spill							
H Is spill terminated? <input type="checkbox"/> yes <input type="checkbox"/> no		I If spill is continuing, give estimated rate		J Is further spillage possible? <input type="checkbox"/> yes <input type="checkbox"/> no		K Extent of contaminated area (in square meters if possible)	
L Factors effecting spill or recovery (weather conditions, terrain, snow cover, etc.)				M Containment (natural depression, dikes, etc.)			
N Action, if any, taken or proposed to contain, recover, clean up or dispose of product(s) and contaminated materials							
O Do you require assistance? <input type="checkbox"/> no <input type="checkbox"/> yes, describe:				P Possible hazards to person, property, or environment; eg: fire, drink water, fish or wildlife			
Q Comments or recommendations						FOR SPILL LINE USE ONLY	
						Lead agency	
						Spill significance	
						Lead Agency contact and time	
Is this file now closed? <input type="checkbox"/> yes <input type="checkbox"/> no							
Reported by		Position, Employer, Location				Telephone	
Reported to		Position, Employer, Location				Telephone	