

### **DIAMONDEX RESOURCES LTD.**

# SPILL CONTINGENCY PLAN EXPLORATION PROPERTIES

**NUNAVUT** 

June 2005

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#### 1.0 <u>INTRODUCTION</u>

#### 1.1 PURPOSE OF PLAN

The purpose of this Spill Contingency Plan is to provide a plan of action for all spills of hazardous materials that may occur on any exploration property. This plan defines the responsibilities of key personnel and outlines procedures to effectively and efficiently contain and recover spills of hazardous materials.

Petroleum products and hazardous materials that will be considered in this Spill Contingency Plan include:

- diesel fuel
- hydraulic oil
- lubricating oil
- gasoline
- Jet "B" fuel
- antifreeze
- propane

#### 1.2 DIAMONDEX RESOURCES LTD. ENVIRONMENTAL POLICY

It is the policy of Diamondex Resources Ltd. to comply with all existing laws and regulations to help ensure the protection of the environment. Diamondex Resources Ltd. cooperates with other groups committed to protecting the environment and ensures that employees, government, and the public is informed on the procedures followed to help protect the environment.

#### 2.0 SITE DESCRIPTION

#### 2.1 GENERAL SITE DESCRIPTION:

This spill contingency plan is to be implemented at all field camps established for mineral exploration. Specifically for Water Licence NWB2HEE0304, the Heeqou Property, the location of this project is Latitude: 65° 54' and 66° 12' and Longitude: 112° 26' and 113° 0' (NTS Map Sheet Number 85H/15, 16 and 86l/1, 2. The camp coordinates are: Latitude 65° 59' 3.468", and Longitude 112° 44' 40.252". See attached map, Appendix C showing the property and the location of the camp.

#### 2.2 PETROLEUM STORAGE AND TRANSPORT

There will be 25 drums of diesel, 1 drum of gasoline, 30 drums of aviation fuel and 20 cylinders of propane. MSDS sheets for these products are attached in Appendix B.

These products are transported to the various exploration properties by plane.

#### 2.3 CHEMICAL STORAGE AND TRANSPORT

Any required chemicals are transported to site by plane. MSDS sheets for these products can be found in Appendix B.



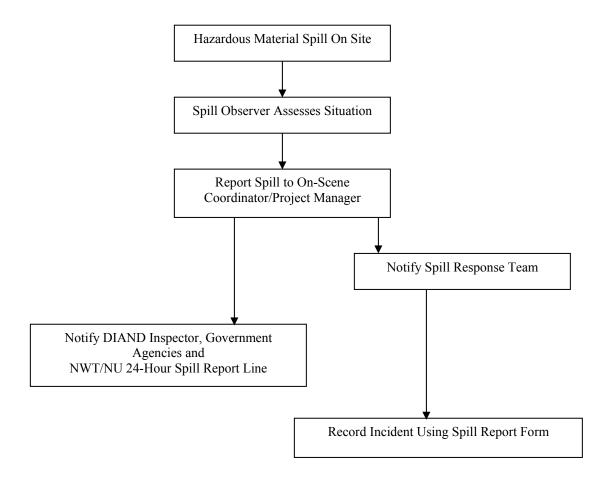
#### 2.4 GREYWATER AND SEWAGE

Greywater will be discharged into sumps or natural depressions located at the minimum required distance from all water bodies. Sumps will be inspected regularly to ensure that there is no erosion or leaching.



#### 3.0 RESPONSE ORGANIZATION

The following is a flow chart to illustrate the sequence of events in the event of a hazardous material spill occurring at any of the Diamondex exploration properties.





#### 3.1 SPILL RESPONSE TEAM

David Clarke will be the On-Scene Coordinator for the Diamondex exploration properties. David Clarke will appoint and train appropriate personnel to make up the Diamondex Spill Response Team for the various Diamondex exploration properties. The key personnel that make up the Diamondex Spill Response Team are as follows:

On-Scene Coordinator Caroline Harke, Senior Project Geologist

Site Personnel Will generally vary from 3 to 14 people throughout the year

Project Manager David Clarke

The responsibilities of the On-Site Coordinator are as follows:

- 1. Assume complete authority over the spill scene and coordinate all personnel involved.
- 2. Evaluate spill situation and develop overall plan of action.
- 3. Activate the spill contingency plan
- 4. Immediately report the spill to:

**NWT 24-Hour Spill Report Line (867) 920-8130** 

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

Environment Canada (Igaluit) (867) 975-4644

**Environment Canada (24 hr pager) (867) 920-5131** 

Fisheries and Oceans (Iqaluit) (867) 979-8007 (Tanya Gordanier, Habitat Impact Assessment Biologist)

Nunavut Department of Environment (Iqaluit) (867) 975-5910 (Earl Baddaloo)

\*and other regulatory agencies, and Diamondex management (see Table 1 – Emergency Contacts).

5. Obtain additional manpower, equipment, and material if not available on site for spill response.

The responsibilities of the Project Manager are as follows:

- 1. Provide regulatory agencies and Diamondex management with information regarding the status of the clean up activities.
- 2. Act as a spokesperson on behalf of Diamondex with regulatory agencies as well as the public and media.
- 3. Prepare and submit a report on the spill incident to regulatory agencies within 30 days of the event.



#### 3.2 ADDITIONAL CONTACTS

**Table 1 – Emergency Contacts** 

CONTACT	TELEPHONE NUMBER
DIAND – Land Use Inspector, Kugluktuk	(867) 982-4306
Diamondex – Randy C. Turner, President	(604) 988-1159 (home)
Diamondex – David B. Clarke, VP,	(604) 739-8506 (home)
Exploration	
Environment Canada	(867) 975-4644, 24hr page (867) 920-5131
Air Tindi	(867) 669-8212
Great Slave Helicopters	(867) 873-2081
Yellowknife Fire Department	(867) 873-2222
Kugluktuk RCMP	(867) 982-4111
Stanton Regional Hospital – Yellowknife	(867) 920-4111
Caroline Harke	Information to be supplied once phone
	system is established
Discovery Mining Services	(867) 920-4600
Diamondex Office, Vancouver	(604) 687-6644

#### 4.0 REPORTING PROCEDURE

The On Scene Coordinator must be notified immediately of any spill either by phone, radio, or in person.

The following is the spill reporting procedure:

1. Report immediately to the 24-Hour Spill Report Line Phone (867) 920-8130, Fax (867) 873-6924

DIAND Water Resources Inspector (867) 975-4298

Environment Canada (Iqaluit) (867) 975-4644

Environment Canada (24 hr pager) (867) 920-5131

Fisheries and Oceans (Igaluit) (867) 979-8007

Nunavut Department of Environment (867) 975-5910

And other regulatory agencies, and Diamondex management (see Table 1 – Emergency Contacts).

2. Fill out the NWT Spill Report Form NWT1752/0202, see Appendix A.



#### 5.0 ACTION PLANS

#### 5.1 INITIAL ACTION

The instructions to be followed by the first person on the spill scene are as follows:

- 1. Always be alert and consider your safety first.
- 2. If possible, identify the material that has been spilled.
- 3. Assess the hazard of people in the vicinity of the spill.
- 4. If possible, safely try to stop the flow of material to minimize potential for environmental impacts.
- 5. Immediately report the spill to the On Scene Coordinator.
- 6. Resume any effective action to contain, mitigate, or terminate the flow of the spilled material.

The following pages include specific instructions to be followed in the response to various types of spills including diesel fuel, hydraulic oil, lubricating oil, gasoline, aviation fuel (Jet "B"), antifreeze, and propane.



# 5.2 SPILL RESPONSE ACTIONS DIESEL FUEL, HYDRAULIC OIL, AND LUBRICATING OIL

Take action only if safety permits – stop the source flow if safe to do so and eliminate all ignition sources. Never smoke when dealing with these types of spills.

#### On Land

Build a containment berm using soil material or snow and place a plastic tarp at the foot of the berm for easy capture of the spill after all vapours have dissipated.

Remove the spill by using absorbent pads or excavating the soil, gravel or snow.

Remove spill splashed on vegetation using particulate absorbent material.

If soil, gravel, or vegetation must be removed, contact regulatory agencies for approval before commencing with the removal.

#### On Muskeg

Do not deploy personnel and equipment on marsh or vegetation.

Remove pooled oil with sorbent pads and/or skimmer.

Flush with low pressure water to herd oil to collection point.

Burn only in localized areas, e.g., trenches, piles or windrows.

Do not burn if root systems can be damaged (low water table).

Minimize damage caused by equipment and excavation.

#### On Water

Contain spill as close to release point as possible.

Use containment boom to capture spill for recovery after vapours have dissipated.

Use absorbent pads to capture small spills.

Use skimmer for larger spills.

#### On Rivers and Streams

Prevent entry into water, if possible, by building a berm of trench.

Intercept moving slicks in quiet areas using (sorbent) booms.

Do not use sorbent booms/pads in fast currents and turbulent water.

#### On Ice and Snow

Build a containment berm around spill using snow.

Remove spill using absorbent pads or particulate sorbent material.

The contaminated ice and snow must be scraped and shoveled into plastic buckets with lids, 205 litre drums, and/or polypropylene bags.

#### Storage and Transfer

All contaminated water, ice, snow, soil, and clean up supplies will be stored in closed, labeled containers. All containers will be stored in a well ventilated area away from incompatible materials.

#### Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods before disposing of contaminated material.



## 5.3 SPILL RESPONSE ACTIONS GASOLINE AND JET B AVIATION FUEL

Gasoline and Jet B form vapours that can ignite and explode – No Smoking!

Take action only if safety permits – stop the source flow if safe to do so and eliminate all ignition sources. Never smoke when dealing with these types of spills.

#### On Land

Build a containment berm using soil material or snow and place a plastic tarp at the foot of the berm for easy capture of the spill after all vapours have dissipated.

Remove the spill by using absorbent pads or excavating the soil, gravel or snow.

Remove spill splashed on vegetation using particulate absorbent material.

If soil, gravel, or vegetation must be removed, contact regulatory agencies for approval before commencing with the removal.

#### On Muskeg

Do not deploy personnel and equipment on marsh or vegetation.

Remove pooled gasoline or Jet B with sorbent pads and/or skimmer.

Flush with low pressure water to herd oil to collection point.

Burn only in localized areas, e.g., trenches, piles or windrows.

Do not burn if root systems can be damaged (low water table).

Minimize damage caused by equipment and excavation.

#### On Water

Contain spill as close to release point as possible.

Use containment boom to capture spill for recovery after vapours have dissipated.

Use absorbent pads to capture small spills.

Use skimmer for larger spills.

#### On Rivers and Streams

Prevent entry into water, if possible, by building a berm of trench.

Intercept moving slicks in quiet areas using (sorbent) booms.

Do not use sorbent booms/pads in fast currents and turbulent water.

#### On Ice and Snow

Build a containment berm around spill using snow.

Remove spill using absorbent pads or particulate sorbent material.

The contaminated ice and snow must be scraped and shoveled into plastic buckets with lids, 205 litre drums, and/or polypropylene bags.

#### **Storage and Transfer**

All contaminated water, ice, snow, soil, and clean up supplies will be stored in closed, labeled containers. All containers will be stored in a well ventilated area away from incompatible materials.

#### Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods before disposing of contaminated material.



## 5.4 SPILL RESPONSE ACTIONS ANTIFREEZE

Take action only if safety permits – stop the source flow if safe to do so.

#### On Land

Build a containment berm using soil material or snow and place a plastic tarp at the foot of the berm for easy capture of the spill.

Remove the spill by using absorbent pads or excavating the soil, gravel, or snow.

Remove spill splashed on vegetation using particulate absorbent material.

If soil, gravel, or vegetation must be removed, contact regulatory agencies for approval before commencing with the removal.

#### On Water

Use containment boom to capture spill.

Pump contaminated water into 206 litre drum.

#### On Ice and Snow

Build a containment berm around spill using snow.

Remove spill using particulate sorbent material.

The contaminated sorbent material, ice and snow must be scraped and shoveled into plastic buckets with lids, 206 litre drums, and/or polypropylene bags.

#### Storage and Transfer

All contaminated water, ice, snow, soil, and clean up supplies will be stored in closed, labeled containers. All containers will be stored in a well ventilated area away from incompatible materials.

#### Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods before disposing of contaminated material.



## 5.5 SPILL RESPONSE ACTIONS PROPANE

Take action only if safety permits. Gases stored in cylinders can explode when ignited. Keep vehicles away from accident area – No Smoking!

#### On Land

Do not attempt to contain the propane release.

#### On Water

Do not attempt to contain the propane release.

#### On Ice and Snow

Do not attempt to contain the propane release.

#### General

It is not possible to contain vapours when released.

Water spray can be used to knock down vapours if there is NO chance of ignition.

Small fires can be extinguished with dry chemical of CO<sub>2</sub>.

Personnel should withdraw immediately from area unless a small leak is stopped immediately after it has been detected.

If tanks are damaged, gas should be allowed to disperse and no recovery attempt should be made.

Personnel should avoid touching release point on containers since frost forms very rapidly. Keep away from tank ends.

#### Storage and Transfer

It is not possible to contain vapours when released.

#### Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods for detective equipment that resulted in the release.



#### 6.0 RESOURCE INVENTORY

#### 6.1 PERSONNEL

In addition to the On Scene Coordinator and the Project Manager, approximately 3 to 14 people are available on site to assist in spill response and clean up activities. The amount of people on site varies throughout the year.

#### 6.2 GENERAL EQUIPMENT

Equipment available on site to assist in responding to a hazardous materials spill includes various hand held tools including shovels. In addition to these, one spill kit will be located at each fuel cache and one at the camp during active exploration periods. The spill kits contain the following supplies:

1 – 360 litre/79 gallon polyethylene overpack drum

4 – oil sorbent booms (5" X 10')

100 – oil sorbent sheets (16.5" X 20" X 3/8")

1 – drain cover (36" X 36" X 1/16")

1 – Caution tape (3" X 500')

1 – 1 lb plugging compound

2 – pair Nitrile gloves

2 – pair Safety goggles

2 - pair Tyvek coveralls

1 – instruction booklet

10 – printed disposable bags (24" X 48")

Sorbent capacity of this spill kit is 240 litres.

In addition to these spill kits, at least one empty fuel drum will be located at each fuel cache to be available for transfer of fuel in the event of a leaking or damaged drum. Extra absorbent pads will also be located at each fuel cache.

#### 7.0 TRAINING

All employees working on a Diamondex Resources Ltd. exploration property will be trained in the safe operation of all machinery and tools to help prevent hazardous material spills. All employees on site will also be trained for initial spill response in the event of a spill. Annual refresher exercises will be conducted to review the procedures of this Spill Contingency Plan.



# APPENDIX A NWT/NUNAVUT SPILL REPORT FORM



CDNX: DSP

## Northwest Legitories

### **NWT SPILL REPORT**

(Oil, Gas, Hazardous Chemicals or other Materials)

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

Te	rritories			,			1 ax. (001) 010-032-	
Α	Report Date and Time	B Date and Time o	f spill (if known)	(		inal Report ate no	Spill Number	
D	Location and map coordinates (if known) and direction (if moving)							
Ε	Partly responsible for spill							
F	Product(s) spilled and estimated quantities (provide metric volumes/weights if possible)							
G Cause of spill								
Н	Is spill terminated? If spill is continuing yes no							
L	Factors effecting spill or recovery (weather conditions, terrain, snow cover, etc.)  M Containment (natural depression, dikes, etc.)						tc.)	
N	Action, if any, taken or proposed to contain,	recover, clean up or disp	cose of product(s) and co	ntaminated mat	terials			
_	2	15.0				6- 414 - 1- 6-1	2.00	
O Do you require assistance? Do you require assistance? 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 con	tact and time	
							_	
						Is this file now old	osed? Uyes	
Rep	orted by	Position. Employer, Loc	ation			Telephone	_	
Rep	orted to	Position. Employer, Loc	ation			Telephone		



# APPENDIX B MSDS SHEETS



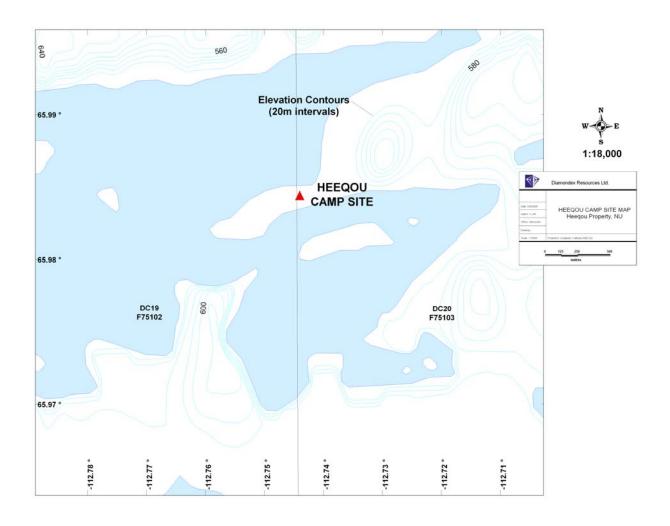
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## APPENDIX C

Map and Photo of HEEQUO Camp Location





HEEQUO camp.