

Spill Contingency Plan Qilalugaq Project

Operated By:	Stornoway Diamond Corporation
Prepared:	November 2006
Effective:	April 2007 to April 2008

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Project Introduction

The following plan applies to exploration activities undertaken on the mineral claims comprising the Qilalugaq Project located near Repulse Bay, Nunavut, which is operated by Stornoway Diamond Corporation ("Stornoway").

Stornoway is proposing a two phase field program for 2007 which would include ground geophysics, till sampling, prospecting, and the drilling of both on ice and land based targets.

Activities to be conducted during Phase I of the proposed program are expected to include ground geophysics and the drilling of on ice targets. This initial phase is expected to begin in mid April of 2007 and continue for approximately six weeks time.

Activities to be conducted during Phase II of the proposed program are likely to include prospecting, till sampling, and the drilling of land based targets. The second phase of the program is scheduled to begin in mid June and continue to mid September (weather and logistics depending).

A Hughes 500D helicopter (or equivalent) will transport field and drilling crews to their work/sampling areas and will remain on site with the personnel for emergency support.

Due to the proximity of this project area to the hamlet of Repulse Bay camp facilities will not be required at this time. Personnel for the project will be housed in, and work out of Repulse Bay.

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

Detailed Response Plan

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

To Be Determined : Stornoway Diamond Corporation (*camp phone to be determined*)

Project Supervisor – Robin Hopkins

Stornoway Diamond Corporation
860-625 Howe Street
Vancouver, BC
V6C 2T6
Phone: 604-331-2259
Fax: 604-689-5041

Locations – Various Drill Sites (To Be Determined)

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

Storage Capacity – Maximum fuel stored at each drill site will typically be 2 drums (410 litres) of Jet-B, 4 drums (820 litres) of diesel, one (1) 100lb-propane tank, and several cases of 4 cycle engine oil

Storage Location - Drums will be stored on flat stable terrain to reduce the chances of a leak. If available a natural depression will be utilized for storage which is well away (>100m) from water bodies and a safe distance from drilling activities.

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 to reduce chances of a leak. If available a natural depression situated well away from water bodies and drilling activities 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 Stornoway Diamond Corporation's 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 includes:

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 at each drill site, 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.

Emergency Contact Information

24-Hour Spill Report Line Phone Number	(867) 920-8130
24-Hour Spill Report Line Fax Number	(867) 920-8127
DIAND Water Resources Inspector	(867) 975-4298
Environment Canada (Nunavut)	(867) 975-4644
Environment Canada 24 Hour Emergency Pager Number	(867) 920-5131
Stornoway Diamond Corporation – Logistics Manager in Igloolik	(867)-934-8552
Kivalliq Inuit Association	(867) 645-2800
Repulse Bay Hunters' and Trappers' Association	(867) 462-4334
Repulse Bay Health Centre	(867) 462-9916
RCMP, Repulse Bay Detachment	(867) 462-0123

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



NUNAVUT SPILL REPORT (Oil, Gas, Hazardous Chemicals or other Materials)

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Phone/ᓄᓇᓂᓪᓗᓂ (867) 920-8130

Fax/ᓄᓇᓂᓪᓗᓂ (867) 873-6924

A Report Date and Time ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	B Date and Time of Spill(if known) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	C <input type="checkbox"/> Original Report ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ <input type="checkbox"/> Update No. _____ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	Spill Number ᓄᓇᓂᓪᓗᓂ
D Location and Map Coordinates (if known) and Direction (if moving) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ) ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ)			
E Party Responsible for Spill (Full Name and Address) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ)			
F Product(s) Spilled and Estimated Quantities(provide metric volumes/weights if possible) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ)			
G Cause of Spill ᓄᓇᓂᓪᓗᓂ			
H Is Spill Terminated? ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ? <input type="checkbox"/> Yes/ᓄᓇᓂᓪᓗᓂ <input type="checkbox"/> No/ᓄᓇᓂᓪᓗᓂ	I If Spill is Continuing, Give Estimated Rate ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	J Is Further Spillage Possible? ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ? <input type="checkbox"/> Yes/ᓄᓇᓂᓪᓗᓂ <input type="checkbox"/> No/ᓄᓇᓂᓪᓗᓂ	K Extent of Contaminated Area (in square metres if possible) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ)
L Factors Affecting Spill or Recovery(weather conditions, terrain, snow cover, etc.) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ)		M Containment (natural depression, dykes, etc.) ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ)	
N Action, if any, taken or Proposed to Contain, Recover, Clean Up or Dispose of Product(s) and Contaminated Materials ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ (ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ)			
O Do You Require Assistance? ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ? <input type="checkbox"/> No <input type="checkbox"/> Yes, describe: ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ		P Possible Hazards to Persons, Property or Environment e.g. fire, drinking water, fish or wildlife ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	
Q Comments and/or Recommendations ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ		FOR SPILL LINE USE ONLY ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ Lead Agency ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ Spill Significance ᓄᓇᓂᓪᓗᓂ Lead Agency Contact and Time ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ Is this file now closed? ᓄᓇᓂᓪᓗᓂ ᓄᓇᓂᓪᓗᓂ	
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