1773/01

**Sewage Discharge Contingency Plan** 

Effective date: December 20, 2001

# **Revision History**

Rev. No.	Effective Date	Description	Prepared (name)	by	Reviewed (name)	by
12-2001	December 20, 2001		Jeff Oshust		Jeff Oshust	
			John Brown	1	John Brown	
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Latest revisio	n approved by /nome	1	Signed:			
Latest revision approved by (name):			Signed.			

## Purpose

The purpose of this document is to provide an action plan for Shell Canada Limited and its contractors to respond to sewage spills to protect human safety and minimize damage to facilities and the environment, and for the rapid notification of Company staff and government authorities.

## 2. Scope

This procedure applies to the Shell Canada Limited geophysical operations in NWT. This includes contractors working directly for Shell Canada Limited and their sub-contractors.

## 3. References

## 4. Definitions

#### 4.1.1. Incident Commander

The Incident Commander is the person with the highest level of authority on the worksite. This individual is responsible for ensuring that the standard is complied with onsite. The Shell Field Supervisor is the Incident Commander onsite. In the event the Shell Field Supervisor is not present, the Incident Commander will be the shell Line Clearing Supervisor. The Project Manager is responsible for designating the Incident Commander.

## 5. Responsibilities

### 5.1.1. A Project Manager

- a) Ensure all those on the project are compliant with this standard.
- b) Ensure that the organizational structure for the project is made clear to all involved, including both Shell Canada Limited personnel and subcontractors.

#### 5.1.2. Incident Commander

a) Supervise the operation to ensure compliance with local regulation, Shell Canada Limited Geophysical Operations Manual, and these Standards.

### 6. Actions

#### 6.1.1. Compliance

 Failure to comply with the requirements of this standard may result in disciplinary action, including progressive discipline, cessation of operations, termination of contract and so forth.

## 6.2. Exploration and Support Program Description

Project Title: Aklavik 2D Sleigh Camp, Leased from Arctic Oil & Gas Services

Location:

Latitude

68° 28' 38" to 68° 39' 00"

Longitude

135° 33' 27" to 135° 55' 40"

Water License: N7LI-1773

## 6.3. Sewage Treatment

Sewage to be hauled from the camp location to Inuvik

#### 6.3.1. Contact Lists

### Government

Department of Indian Affairs & Northern Development: Inuvik Scott Gallupe (867-777-3361)

Department of Indian Affairs & Northern Development: Yellowknife (867-669-2651 Voice) (867-669-2716 Fax)

24-Hour Spill Report Line: (867-920-8130 Voice) - (867-873-6924 Fax)

GNWT Pollution Control Division: Yellowknife (867-873-7654 Voice) - (867-873-0221 Fax)

Environment Canada: Yellowknife (867-669-4725)

## 6.3.2. Shell Canada Limited - Contact List

Project Manager: John H. Brown (403-691-3502)

Incident Commander: Dave Berry (403-815-6995)

Geophysical Operations Manager: James K. Tong (403-691-3168)

HSSD Coordinator: Jeff Oshust (403-691-3949)

## 6.4. Sewage Spill Response Equipment (at Camp Location)

3 rolls Sorbent Blanket

6 scoops Shovels

4 (205 litre) Empty drums with lids off

1 pc. Equipment for constructing containment and clean up

## 6.5. POSSIBLE SCOPE OF SPILLS

- 1. Failure of Sewage Treatment Plant.
- Contamination of Sewage Treatment waste stream.
- 3. Incident with Vehicle Hauling Sewage from Camp Location to Town Disposal Site.

#### 6.6. RESPONSE ACTIONS

Upon discovery of a spill, the first person on the scene:

- 1. Protects the lives of anyone in the spill area
- 2. Locates likely source or cause of spill and stops flow or release (do not take any unnecessary risk).
- 3. Assesses the likely size, extent and conditions of spill or discharge.
- 4. Notifies immediate supervisor, foreman or superintendent.
- 5. Notify 24 hour Spill Number utilizing the NWT Spill Report form.
- 6. Attempts to contain spread of spill if possible using available equipment/materials.
- 7. Records all relevant information for reporting purposes.
- 8. Discuss and implement appropriate cleanup with Government authorities.

### 6.7. SPILL RESPONSE COUNTERMEASURES

Daily inspections of Sewage Treatment Plant.

In the event of fuel or oil contamination of sewage treatment waste stream, the Fuel Spill Contingency Plan will apply.

#### 6.8. POST SPILL REPORTS

a) Any spill

The diaries of the onsite personnel are the primary sources of information. The report should include the following:

- an analysis of events leading up to the spill, cause of the spill, type of oil spilled, duration of spill
- a chronological description of all areas contaminated by the spill and extent of contamination
- a cleanup procedures utilized in each area, including duration of activities, number of personnel involved in the cleanup, types and number of equipment employed

- description of weather conditions, and river currents
- an analysis of the success of cleanup in each area contaminated, and evaluations of equipment used
- description of environmental protection measures and their success
- initial statement of environmental impacts
- statement of property damage
- summary of total volume of the spill and volume recovered, and estimates of the fate of the oil lost including approximate amount lost to each natural process
- statement of damage to company property as well as damage to others' property, including details of cause, type and extent of damage
- salvage operations and their success (if applicable)
- a list of all government personnel and other authorities contacted including date, time and title
- all news released, government communications and records of interviews
- summary cost breakdown of cleanup, including equipment, manpower, materials, accommodations, transportation claims
- summary of injuries or deaths caused by the spill or occurring during cleanup.
- suggestions to improve cleanup operations during future responses
- summary analysis of what went right and what went wrong including reporting procedures

Provide a detailed report to the Water Resources Inspector within 30 days of occurrence.

## Burning

Immediate burning may be desirable as decided by the Incident Commander, in consultation with Land Use Inspectors. Pick up residue after burn has been completed.

#### Containment

Construct frozen snow dikes or ice trenches around perimeter of spill for containment

Erect barriers to minimize the migration of the spill and seal with snow/water mixture

### Recovery

Recover pumpable product and store in steel drums or tanks for future disposal.

#### Cleanup

Pick up contaminated snow using mechanical equipment or hand labour.

Store in steel drums for ultimate disposal or transport by means of dump truck to a disposal site.

Use sorbent to cleanup remaining contained product.

Recover oiled sorbents and place into steel drums for ultimate disposal.

### 6.8. DISPOSAL

The following are a number of methods available in Inuvik for the disposal of oil products.

### 6.8.1. In-Situ Burning at Spill site

In the case of a major spill, some of the fuel released at the site may be disposed of through onsite burning. Precautions must be taken to ensure fire cannot burn back to fuel storage tanks.

#### 6.8.2. Open Pit-Burning

Incineration of oiled debris in open pits or open top barrels is another alternative at remote sites.

Surface burning, using berms and built-up areas wherever possible, is preferred to disturbing the permafrost substructure.

If there is a possibility of oil spill debris disposal in Inuvik or any other community permission may also be required from the Government or Northwest Territories.

Contact: Regional Superintendent (GNWT, Inuvik) (867-777-7200)

## 6.8.3. Slop Oil Disposal Site - Inuvik

Oil contaminated snow and recovered oil, either fluid or frozen, may be transported to Inuvik, contact Arctic Tire for transportation of contaminated snow from spill site to Inuvik for disposal burning.

#### 6.9. POST SPILL REPORTS

### Any spill

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- a chronological description of all areas contaminated by the spill and extent of contamination
- cleanup procedures utilized in each area, including duration of activities, number of personnel involved in the cleanup, types and number of equipment employed
- description of weather conditions, and river currents and how they affected the movement of the oil and the cleanup operations
- an analysis of the success of cleanup in each area contaminated, and evaluations of equipment used
- description of environmental protection measures and their success
- initial statement of environmental impacts
- statement of property damage
- summary of total volume of the spill and volume recovered, and estimates of the fate of the oil lost including approximate amount lost to each natural process
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