

Southampton Island Caribou Harvest Caribou Harvest Camp

Spill Contingency Plan

We are applying to the Nunavut Water Board for a Water License to establish a temporary camp located approximately 30 km north of the community of Coral Harbour. The camp will be located at 64° 16' longitude and 83° 26' latitude and will be used to support the annual caribou harvest program.

The caribou harvest has successfully operated in the region since 1995 and is expected to provide 60 direct and indirect job opportunities in the upcoming harvest season.

The annual caribou harvest starts in early February and is expected to last till the end of March. A temporary camp will be erected and consist of a wood framed kitchen facility, bathrooms/outhouses, 8 wood framed buildings for accommodations, one harvesting tent, two generator shacks, a fuel storage area and a fuel transfer area.

To support this application a site specific Spill Contingency Plan has been developed. The initial point of contact for this project will be Mr. Lenard Netser.

Purpose

The purpose of the spill contingency plan is to demonstrate that a proactive approach is being taken to prevent the accidental discharge of foreign material to the environment and to identify the response method required in the event of an accident. A spill is defined as any accidental discharge of hazardous material to the environment. This plan identifies how the environmental effects associated with these incidents can be prevented and or mitigated through effective and efficient response. This plan also identifies the responsibilities of key personnel.

Petroleum Products

One fuel cache will be located to the south of the site camp. The fuel cache will be located greater than 30 meters from the nearest water body on level ground. Lubricants will be stored adjacent the fuel cache in a designated wooden shed identified for hazardous material storage.

Petroleum products identified for this project include twenty (20), 170 litre steel drums of fuel oil, one eighteen thousand nine hundred and thirty litre (1x 18930) steel tank containing gasoline, approximately 60 litres of motor oil and approximately 15 litres of chain case oil.

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Board**

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Public Registry

Manual or automatic pumps are used to transfer all petroleum products. Smoking and open flames are prohibited in the fuel storage area at all times.

Complete spill kits will be located adjacent the fuel cache and at the fuel transfer area. The spill kits will include as a minimum:

- 1 empty 208 litre plastic drum
- Oil sorbent sheets
- Caution tape
- Fire extinguisher
- Gloves
- MSDS sheets
- Safety goggles
- Plastic bags
- Shovel
- Fire extinguisher

Risk Assessment and Mitigation

The potential sources for spills have been identified as follows:

- 1) drum storage- leaks or ruptures due to handling
- 2) Refueling- leaking or dripping fuels associated with malfunctioning of pumps, improper storage, over filling or faulty operations.

Mitigative Measures- Fuel Oil in Barrels:

One assigned individual called the fuel handler will be responsible for dispensing fuels. All barrels will be stored on wooden pallets. The pallets will be located on a level surface. Under the pallets a heavy plastic barrier will be placed on top of the ground. The barrier is then brought up to fit snugly against the upper end of the pallets. This in it self protects the surface below. During demobilization this barrier is carefully folded from the outside in, and wrapped up to keep any contamination encased, the drop sheet is then placed in a drum for transport back to Coral Harbour for disposal at the regional landfill.

If a spill or release occurs the contaminated snow and ice will be gathered via shovel or equivalent man power, and disposed of in a heavy plastic bag or directly into drums. The drums will then be transported back to the community of Coral Harbour for ultimate disposal at the regional landfill.

Mitigative Measures- Gasoline Storage

Gasoline will be dispensed by a designated fuel handler or designee. When dispensing gasoline, care will be taken to insure there is no spillage. If contamination is visible the contaminated snow surface shall immediately be scooped up by a shovel, and placed in a heavy plastic bag or assigned drum. The bags/ drums will then be back hauled to Coral Harbour for disposal at the landfill facility.

Preventative Measures

In addition to the above mentioned procedures for handling fuel the following measures will further minimize the potential for spills

during fuel handling, transfers and storage:

- 1) Fuel transfers will be completed by one dedicated individual
- 2) The fuel handler will carefully monitor full levels in the receiving tanks during transfers and the individual will always have additional absorbent pads on hand while refueling
- 3) Drips and minor spills will be cleaned up immediately
- 4) The site manager will regularly inspect drums, fittings and hoses for potential leaks

Sanitizers and Sterilization

The camp will be operating under the Canadian Food Inspection Agency standards and as such will require strict decontamination measures. While handling and processing the caribou, equipment including knives, saws and hooks will be sterilized via hot water (<82°C) or a product called Zep Amine A. Wash water from daily operations will be minimal. Wash water will be stored on site in plastic drums then transfer to a land based sump located greater than 30m from any water body for disposal.

Zep Amine A is a concentrated sanitizer containing two active ammonium compounds in a water base. The product is used to sanitize glassware, dishes, utensil and food processing equipment. The product is used in a diluted form at 1:500 parts with water. A Material Safety Data Sheet for the product has been attached.

Response to a Spill

In the case of a spill our other environmental emergency it is necessary to respond immediately and in a safe and environmentally responsible manner. The following steps will be followed in the event of a spill:

- Ensure the safety of site personal
- Identify the source of the spill
- Eliminate all ignition sources and shut off machinery
- Make sure you wear appropriate Personal Protective Equipment
- Stay upwind and keep bystanders away
- If possible try to stop or plug the source of the leak
- Contain the spill with appropriate materials and equipment (boom, sorbent material etc.)
- Pump large spills into barrels or other suitable containers.
- If possible keep the spilled material away from waterways by digging trenches and building mini berms
- Upon completion of clean-up, place contaminated absorbent and associated material in barrels for ultimate remove to approved facility

- Immediately notify the 24 hour Spill Line at (867) 920-8130
- Ensure the Spill Response Form is filled out as completely as possible before and after contacting the 24 Hour Spill Line

Spill Response Team:

A spill response team will be identified for the camp. The response team will include the site manager, and the lead hand. These individuals would organize the staff to deal with the hazard as quickly as possible, and call other resources if needed. Other resources available if needed include

Resource team in a major spill

Volunteer Fire Department:
Hamlet of Coral Harbour:
Wildlife Officer:
RCMP

Tel: 867-925-4422
Tel: 867-925-8867
Tel: 867-925-9015
Tel: 867-925-1111