

Mars Society
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November 22, 2010

Richard Dwyer
Licensing Administrator
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Subject: Submission of Spill Contingency Plan and Abandonment & Restoration Plan

Dear Mr. Dwyer:

In accordance with the terms and conditions of the current license 3BC-MAR1014 and pursuant to your recent letter dated October 20, 2010, please find attached our submission of the following documents:

- Spill Contingency Plan
- Abandonment & Restoration Plan

Please accept these submissions on behalf of The Mars Society.

Should you have any questions, or if there is anything further which you require, please do not hesitate to contact me at your earliest convenience.

Sincerely,

Joseph E. Palaia, IV

2011 Field Season Director & Crew Commander
The Mars Society - Flashline Mars Arctic Research Station
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Spill Response Plan

This plan is designed to address the prevention of spills into the environment and to address contingencies in case of a spill. The primary environmental contaminants used at the FMARS facility are petroleum products (mo-gas, diesel, jet-b, and engine lubricants). No more than 20 drums of these products are on hand at any one time at the facility for servicing of transportation, heating, and electrical generation. In no case will there be 4,000 or more liters on the camp site at any time.

Description

The FMARS research facility is located on Crown Land, Devon Island, Nunavut Canada. Its geographic location is 75°25'52.75N x 89°49'24.19W. It is a freestanding structure designed to house a seven person field team during the summer months.

Storage

All products will be shipped and stored in appropriate containers for the type of product. Temporary storage of full fuel and engine lubricant containers for less than 24hrs will be at a site near the airstrip located at 75°25'53.02N x 89°49'20.92W.

Permanent on site storage of fuel containers will be on the secondary containment area, located next to the generator shack at 75°26'01.65N x 89°51'15.44W, or in the generator shack. Both of these areas are to be lined with heavy gage plastic film and covered by fuel absorbent material with the edges elevated by rocks or soil.

Use

All fuel and lubricants will be dispensed by hand pump in the secondary containment area. Any lubricant changes will also take place in this area. Used lubricant will be stored in an appropriate labeled container with other fuels.

Disposal

All waste fuel and lubricants will be appropriately packaged along with any contaminated absorbent material and removed from Devon Island before the end of each field season. Empty fuel containers will be verified empty and stored near the airstrip in a manner that will not endanger air operations, until they may be flown out.

Cleanup

Cleanup will be using available hand tools and pumps to gather the material in the most expeditious manner. Temporary storage of contaminated cleanup material will be via available empty drums. Spill absorbent materials will be located near any permanent storage site in appropriately labeled containers.

Spill Response and Activation

This plan will be reviewed by all field team members and activated in the event of a spill. All measures will be taken to prevent environmental contamination. Any contaminated material, including contaminated soil, will be removed from the site contained and disposed of properly. In the event of a spill the designated site engineering lead will contact the Nunavut Spill Report line at (867)920-8130 within 24 hours, and Mars Society management via email.