



8 Wing Environmental Management
Canadian Forces Base Trenton
74 Polaris Avenue, Room 305
PO Box 1000 Stn Main
Astra ON K0K 3W0

27 June 2013

Water Resources Officer, AANDC
Field Operations Unit
Nunavut Regional Officer
P.O. Box 100
Iqaluit, NU X0A 0H0

DETAILED REPORT: HYDRAULIC FLUID SPILL-CFS ALERT, 17 JUNE, 2013

INTRODUCTION

1. This report is intended to detail the discovery and follow-up actions taken in response to the 17 Jun 2013 spill of hydraulic fluid at Canadian Forces Station (CFS) Alert – Runway Gravel Storage Area. This spill was a result of a broken hydraulic fluid hose on a front-end loader vehicle.
2. This detailed spill report is submitted as required under the conditions in Part G, Section 4.C of CFS Alert's Nunavut Water Board (NWB) Licence, 3BC-ALT1015 pursuant to the Nunavut Waters and Nunavut Surface Rights Tribunal Act.
3. This spill was reported as required under the Arctic Waters Pollution Prevention Act, Subsection 5(1).
4. This spill was reported as required by the Government of Nunavut's Environmental Protection Act paragraph 5.1(a). The spill was reported to the Northwest Territories/Nunavut (NT/NU) 24-Hour Spill Report Line on 18 Jun 2013.

DETAILS

1. Time, date and location of the spill occurrence.
 - a. The spill was discovered at 0930 EST, 17 Jun 2013, by the night shift workers operating the loader at the runway gravel stockpile area (Latitude 82°31'21"N; Longitude 62°25'04"W) as shown in Figure 1.
2. Amount and type of spilled product.
 - a. 4 Litres of hydraulic fluid was spilled on to the gravel.
3. Root cause(s) of the spill.

- a. A hydraulic hose had broken from the machinery while in operation.
4. Measures taken to contain and clean up the spill site.
 - a. Upon discovery of the spill, operations with the Loader was ceased. The Spill Contingency Plan was implemented by the night shift crew and hazardous materials responders. The affected gravel area was about 1 m², and this area was isolated (Figure 2).
 - b. Approximately 4 L of hydraulic fluid was recovered by manually excavating the affected gravel into a drum.
5. Recurrence prevention.
 - a. This spill occurrence is considered to be an isolated event. Station Staff returned the Loader to Transportation/Maintenance for repairs.
6. Summary.
 - a. A spill of 4 Litres of hydraulic fluid was discovered on 17 June 2013 at CFS Alert's runway gravel stockpile area. Actions were taken to contain, isolate and clean up the spill site (area of 1 m²). The recovered hydraulic fluid and affected gravel was placed into drums and will properly disposed as hazardous waste. The spill was reported to the NT-NU 24-Hour Spill Report Line on 18 June 2013 by 8 Wing Environmental Management.
 - b. This isolated spill occurrence was a result of a broken hydraulic fluid line on the loader. This vehicle has been sent back to the Transportation/Maintenance Section for repairs.

Report compiled by:



Mr. Andrew Tam, M.Sc., Ph.D. (Candidate)
8 Wing Trenton
Assistant Environment Officer

Distribution List

Mr. D.A. Craig / DND 8 Wing Environmental Officer
Maj. W.J. Baccardax / CFS Alert, Commanding Officer
Ms. P. Beaulieu / NWB Licence Manager
Mr. A. Keim / NWB Inspector / AANDC Water Resources Officer
Mr. C. Didham / EC Enforcement Officer (Iqaluit)

ANNEX A

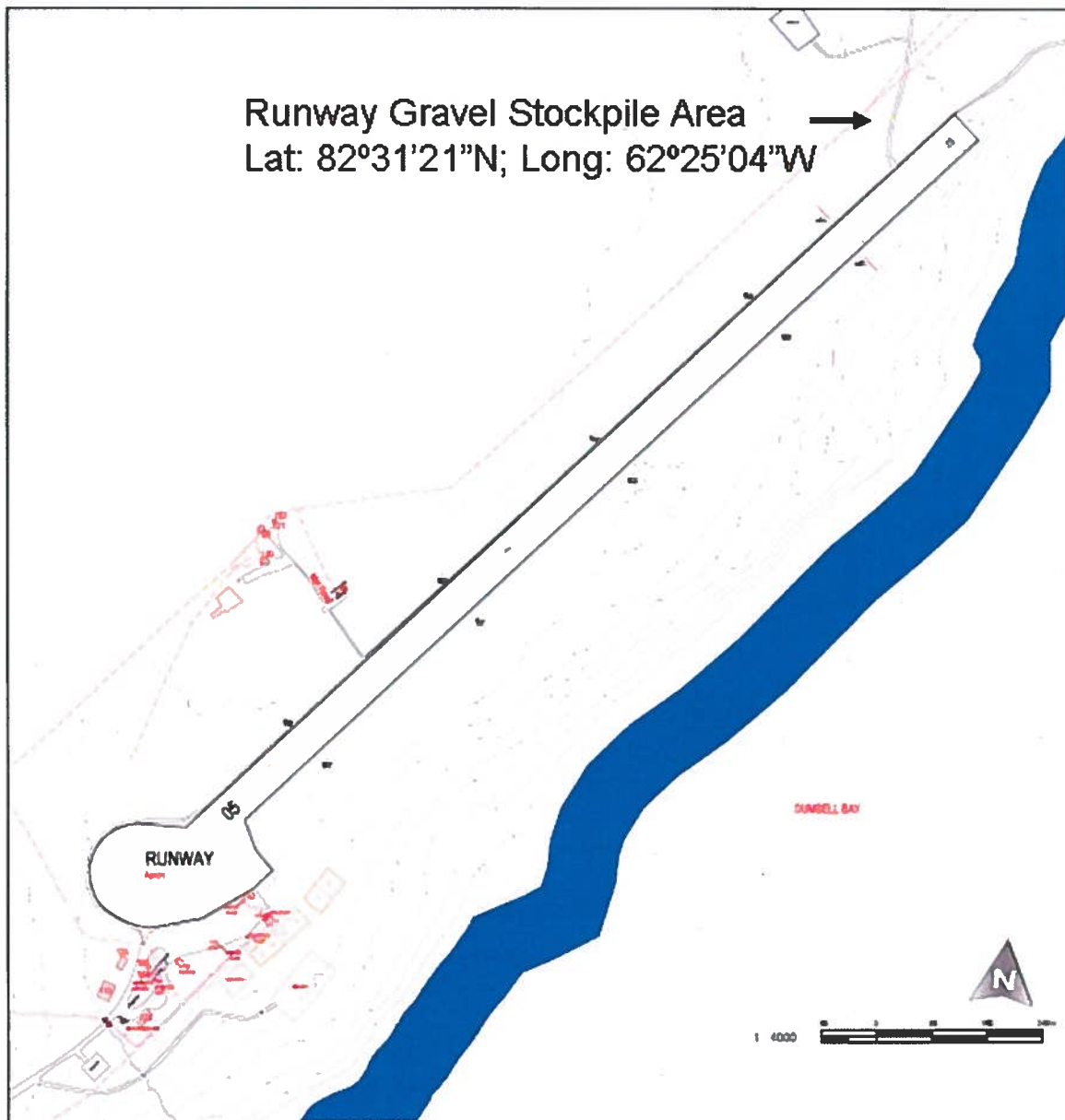


Figure 1 - Map showing location of the Runway Gravel Storage Area at CFS Alert.



Figure 2 – Photo of the affected gravel spill area (approx. 1 m²).