

FSC File: 2005-2150

04, March, 2009

Phyllis Beaulieu Manager of Licensing Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Attn: Phyllis Beaulieu

Re: Water Licence 1BR-RAN0914 Spill Contingency Plan

Dear Phyllis,

Please find enclosed the revised Spill Contingency Plan as required under water license 1BR-RAN0914, issued to the Government of Nunavut, Community and Government Services. This spill Contingency Plan is intended to be a stand alone document and meets all requirements for a Spill Contingency plan as set out in the Government of Nunavut, Consolidation of Spill contingency Planning and Reporting Regulations R-068-93.

If you have any questions regarding this plan please don't hesitate to contact us

Sincerely,

**FSC ARCHITECTS & ENGINEERS** 

Ron Kent, P. Eng

**Environmental Engineering** 





### **Spill Contingency Plan for Rankin Inlet Landfarm**

Version 1.0
Created March 2009
Effective till November 2014
Project # 2005-2150

### Prepared for:

Wayne Thistle Government of Nunavut Community and Government Services, Box 490, Oomilik Building Rankin Inlet, NU, X0C 0G0

### Prepared by:

FSC Architects & Engineers 4910 53 Street Yellowknife, NT X1A 2P4

LISTEN. DESIGN. MANAGE.



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#### 1 Introduction

The community of Rankin Inlet is located within the Kivalliq Region, Nunavut, on the west coast of Hudson Bay. The community is located in a zone of continuous permafrost, which has an active layer of approximately one metre. The Rankin Inlet Fuel Facility is being upgraded. As part of the upgrade, approximately 5,000 cubic metres of hydrocarbon-contaminated soils must be removed from the site and remediated. Contaminated soils will be remediated in a lined engineered landfarm.

The landfarm will be located adjacent to the new Rankin Inlet Municipal Solid Waste Site. It will be accessed from the same road. The Government of Nunavut in consultation with the Hamlet of Rankin Inlet selected the site.

#### 1.1 INFORMATION OF THE LICENSEE

Government of Nunavut Community and Government Services Box 490, Oomilik Building Rankin Inlet NU, X0C 0G0 867-645-8100

#### 1.2 INFORMATION OF 24 HOUR CONTACT

Department of Community & Government Services Petroleum Products Division Regional Director CGS Kivalliq Region (867)-645 8153 (867)-920-8130

#### 1.3 GENERAL DESCRIPTION OF PROPERTY

The site for the landfarm is located in the area of (Lat/Long) 62° 49′ 49.66″ N, 92° 10′ 28.15″ W, (UTM) Easting 542,055.88, Northing 6,966,969.53 (Map sheet number 55K16) near the Hamlet of Rankin Inlet's municipal solid waste site.

#### 1.4 HAZARDOUS MATERIALS STORED ON SITE

The GN Landfarm Facility shall accept only Type B Soil. Soil contaminated with hydrocarbons in which the primary petroleum product present in the soil as determined by laboratory analysis consists of fuel oil and/or diesel fuel and /or gasoline.

There are no sewage facilities.

No fuel or lubricants are stored on site.

Heavy equipment working on site will arrive with sufficient fuel and lubricants. The only potential for a spill will result from a leaking hydraulic hose, or from an overturned truck or excavator.

#### 1.5 SPILL PREVENTION MEASURES

Fuel will only be transferred on site if absolutely necessary, and conducted within the bermed area.

This containment area had been designed with a liner to prevent spills and seepage. A berm will be constructed around the landfarm to ensure that no contaminates can seep out or no surface water will drain into the landfarm.

While transporting contaminated soil the trucks used will not be overfilled to prevent spillage. TDG forms will accompany every load.

Prior to the commencement of hauling all trucks will be clean to prevent cross contamination. When backing into the landfarm with a load care will be taken not to drive over already deposited containments to prevent contamination while leaving the landfarm.

#### 1.6 IN THE CASE OF A SPILL

#### 1.6.1 Report

1. Call 24 hour contact,

Regional Director CGS Kivalliq Region

(867)-645 8153

(867)-645-3625

2. Call the 24 hours spill report line (867) 920-8130

#### 1.6.2 Contain

- 1. If a spill happens within the berm it will already be contained.
- 2. If there is a tear in the liner, the liner will be repaired. A qualified engineer would determine any effects to groundwater, and the extent of any contamination.

#### 1.6.3 Clean Up

- 1. If a spill happens within the berm it will be added to the remediation process.
- 2. Testing at the piezometers located around the site would determine the amount of clean up required.

#### 1.6.4 Disposal

1. Depending on the amount and location contaminates will be added to the remediation process

#### 1.7 SITE MAP

See appendix A

#### 1.8 SPILL RESPONSE TRAINING

All employees will be trained in the following:

- 1. Spill awareness & prevention
- 2. Methods of detection
- 3. Types of spills & seasonal conditions
- 4. Report procedures & Initial responses
- 5. Spill response kit
- 6. Clean-up & site remediation
- 7. Occupational health & safety, protective equipment & selection
- 8. Safe operation of Machinery & tools
- 9. Construction of a containment berm using soil or snow & plastic liner

#### 1.9 SPILL KITS

There is to be a spill kit located in the Response vehicle.

Kit should contain;

360 litre polyethylene over pack drum

Oil sorbent booms

Oil sorbent sheets

Drain cover

Caution tape

Plugging compound

Nitril gloves

Safety goggles

Tyvek coveralls

Instruction Booklet

Disposal Bags

#### 1.10 THE MEANS BY WHICH THE SPILL PLAN IS ACTIVATED

- 1. Spill observer assesses & determines extent of spill
- 2. Reports spill to Spill Response coordinator

(Regional Director CGS Kivalliq Region (867)-645 8153)

- 3. Spill Response coordinator activates Environmental Emergency contingency plan
- 3. Activates Spill Response Team & appropriate equipment and tools required.

Spill response Team

Assistant Fire Marshal 867-645-3103

CGS Assistant Director 867-645-8111

CGS Facilities Manager 867-645-8153

CGS Petroleum Products Officer 867-645-8155

- 5. Notify GN, Local Agencies & 24-hour spill report line.
- 6. Complete Spill Report form & submit with in 30 days of spill

#### 1.11 SPILL REPORT FORM

See appendix B

#### 1.12 EMERGENCY CONTACTS

INAC - Water Resources Division (867) 669-2654

Government Nunavut Department of Environment (867) 975-7735

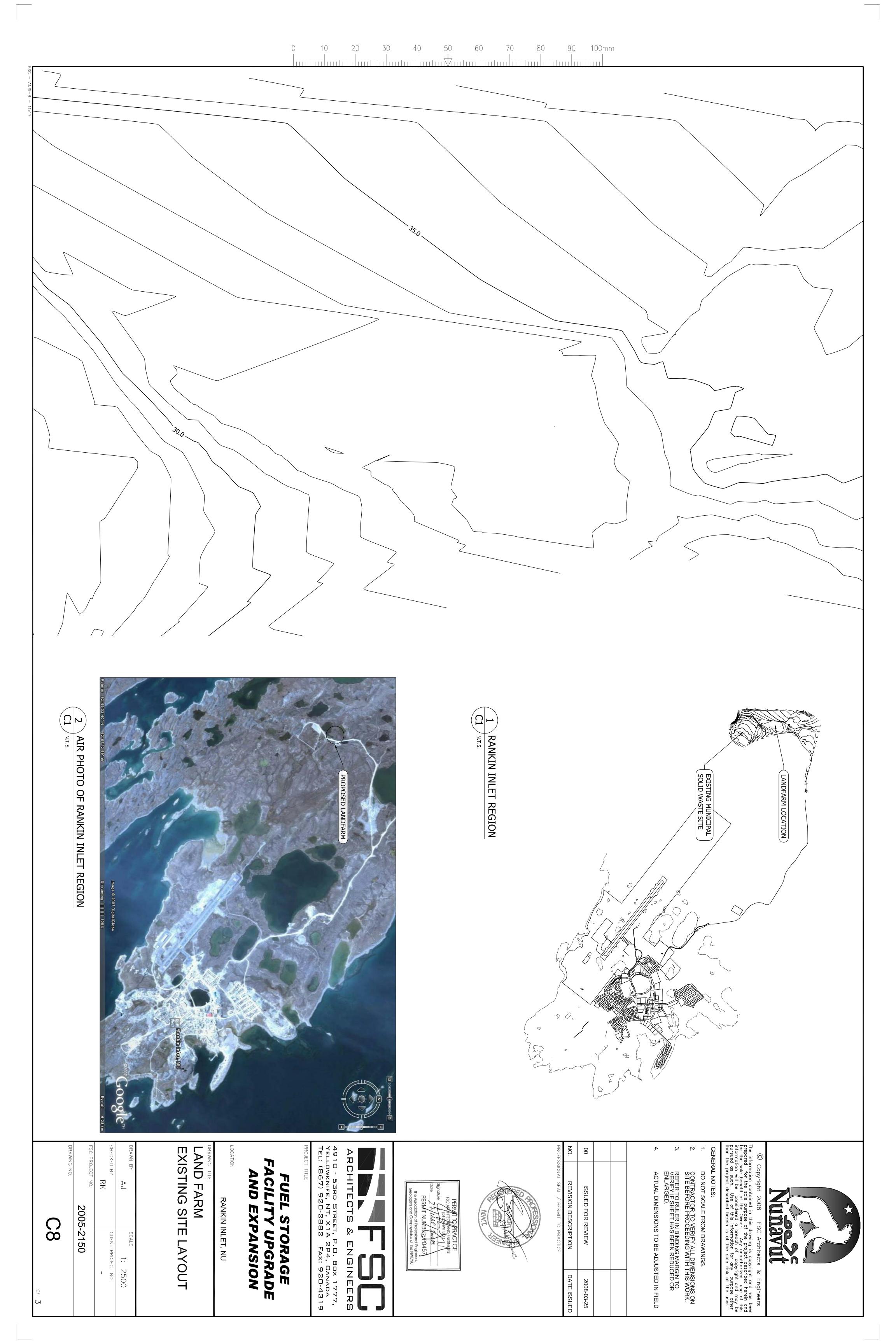
Environment Canada (780) 951-8600

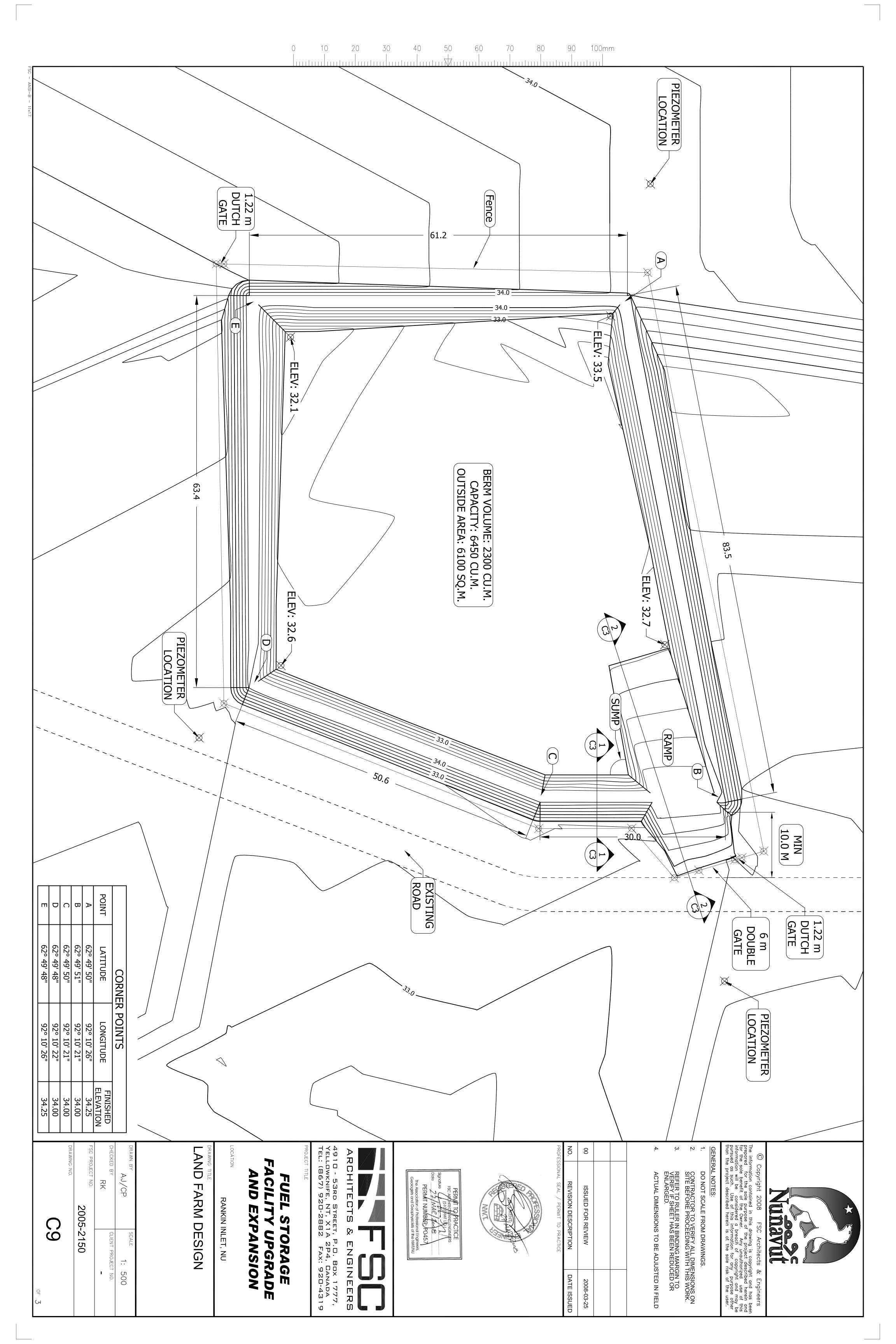
KIA (867) 983-2458

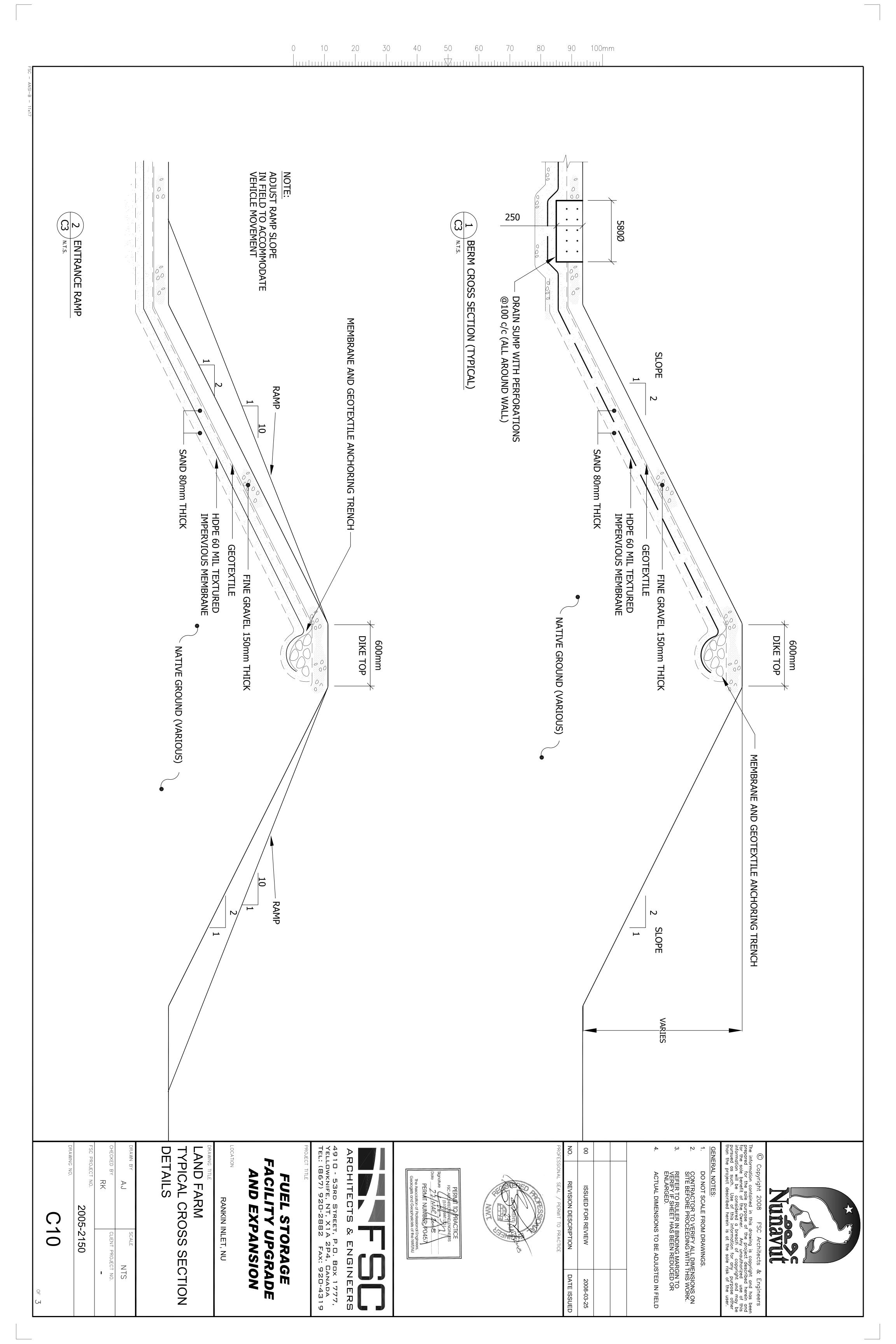
#### 1.13 MSDS SHEETS

No MSDS sheets are stored on site due to the contaminated soil being Type B

# Appendix A: Map







# Appendix B: Spill Report Form





## **NT-NU SPILL REPORT**

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

#### REPORT LINE USE ONLY

Α	REPORT DATE: MONTH – DAY	-YEAR				□ O OR	RIGINAL SPILL REPOR	RT,	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH					_	PDATE # THE ORIGINAL SPILL F	REPORT	<del>-</del>		
С	LAND USE PERMIT NUMBER (	Ξ)	WATER L			JUMBER (IF APPLICABLE)					
D	GEOGRAPHIC PLACE NAME (	OR DISTANCE AND DIRECTION FROM NAMED L			ION	REGION  NWT NUNAVU	□ NUNAVUT □ ADJACENT JURISDICTION OR OCEAN				
Е	LATITUDE				LONGITUDE						
_	DEGREES	SECONDS					MINUTES SECONDS				
F	RESPONSIBLE PARTY OR VE			RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION							
G	ANY CONTRACTOR INVOLVED	)	CONTRACTOR	CONTRACTOR ADDRESS OR OFFICE LOCATION							
	PRODUCT SPILLED	QUANTITY IN LI			, KILOGI	RAMS OR CUBIC METRI	ES	U.N. NUMBER			
Н	SECOND PRODUCT SPILLED	(IF APPLICABL	E) QUANTITY IN LI	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES				U.N. NUMBER			
Ι	SPILL SOURCE		SPILL CAUSE	SPILL CAUSE				AREA OF CONTAMINATION IN SQUARE METRES			
J	FACTORS AFFECTING SPILL (	OR RECOVERY	DESCRIBE ANY	DESCRIBE ANY ASSISTANCE REQUIRED				HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT			
K											
L	REPORTED TO SPILL LINE BY	POSITIO	POSITION		EMPLOYER			DCATION CALLING FROM		ELEPHONE	
M	ANY ALTERNATE CONTACT	POSITION						TERNATE CONTACT  ADCATION		LTERNATE TELEPHONE	
REPORT LINE USE ONLY											
NI	RECEIVED AT SPILL LINE BY	POSITIO	DSITION EN				LOC	CATION CALLED RI		REPORT LINE NUMBER	
N		OPERATOR		Y		YEL	ELLOWKNIFE, NT		367) 920-8130		
		GNWT □GN □ ILA □ INAC □ NEB □TC				CANCE   MINOR   MA		<u> </u>			
AGEI	NCY	CONTACT NAME			CONTACT TIME			REMARKS			
	AGENCY										
	T SUPPORT AGENCY  OND SUPPORT AGENCY			+							
							$\dashv$				
THIR	D SUPPORT AGENCY										