

Volume 2 -
Spill Contingency Plan Framework



Spill Contingency Plan Framework
for the
Pine Point Project

Purpose

This framework document is provided in support of the Mackenzie Valley Environmental Impact Review Board Environmental Assessment Initiation Package for the Pine Point Project (Project). The intent of this document is to describe how this environmental management plan relates to the Project, what information will be provided as the Project develops and to list applicable guidelines and standards. It was developed with the available Project information. This document is not intended for approval but is provided for review purposes and will be refined as the regulatory process proceeds.

Version History

Pine Point Mining Limited is responsible for the distribution, maintenance, and updating of this document. Changes that do not affect the intent of the document will be made as required (e.g., phone numbers, names of individuals). The table below indicates the version of this document, and a summary of revisions made.

Revision #	Section(s) Revised	Description of Revision	Issue Date
0	-	Framework version for MVEIRB EA Initiation Package	15 December 2020

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Abbreviations

Abbreviation	Definition
EA	Environmental Assessment
GNWT	Government of the Northwest Territories
GNWT-ENR	Government of the Northwest Territories, Environment and Natural Resources
NWT	Northwest Territories
Osisko Metals	Osisko Metals Incorporated
PPE	personal protective equipment
PPML	Pine Point Mining Limited
PVC	polyvinyl chloride
TDG	Transportation of Dangerous Goods
Project	Pine Point Project
WHMIS	Workplace Hazardous Material Information System
MVLWB	Mackenzie Valley Land and Water Board

Units of Measure

Unit of Measure	Definition
m	metre
km	kilometre
L	litre

1 Introduction

1.1 Background

Pine Point Mining Limited (PPML) is the sole proponent of the Pine Point Project (Project) and is a 100% owned subsidiary of Osisko Metals Incorporated (Osisko Metals). Pine Point is a brownfield site and the location of the historical Pine Point Mine managed by Cominco Ltd. (Cominco), operated between 1964 and 1988. In February 2018, Osisko Metals acquired PPML and became owner of the Project. PPML is proposing to re-open the Pine Point Mine site to mine mineralized material and produce concentrates of zinc and lead for shipment to independent smelters worldwide.

1.2 Purpose

The Spill Contingency Plan Framework is a requirement of the Environmental Assessment (EA) Initiation Package (MVEIRB 2018). It is intended to provide a preliminary outline of approaches to preventing and managing accidental release of toxic substances. The Spill Contingency Plan Framework is meant to provide a basis for PPML to engage with regulatory agencies and Indigenous communities and elicit feedback on planned water management activities and facilities for the Project. A complete Spill Contingency Plan will be submitted to the Mackenzie Valley Land and Water Board (MVLWB) for approval following the EA, and will incorporate feedback obtained through the EA.

This Spill Contingency Plan Framework has been developed for the Project in accordance with the Guidelines for Spill Contingency Planning prepared by Crown-Indigenous Relations and Northern Affairs Canada (INAC 2007) and the *Spill Contingency Planning and Reporting Regulations* issued under the *Environmental Protection Act*. The Spill Contingency Plan provides the protocols for personnel to follow in response to a spill. All persons involved with the Project will read and be familiar with the Spill Contingency Plan. To be effective, all personnel must be familiar with their responsibilities and steps to take in the event of a spill, prior to any spill or emergency.

This plan identifies key spill response personnel and their roles and responsibilities as well as the equipment and other resources available to respond to a spill. The spill response procedures are designed to minimize potential health and safety hazards and environmental damage, and to facilitate clean-up efforts. The plan has been prepared to direct responsible persons to the information required in responding to a spill.

1.3 Project Contact

Primary Pine Point Mining Limited Contact	Andrew Williams
Title	Environmental Manager
Address	1100 Avenue des Canadiens-de-Montréal, Bureau 300
City	Montreal
Province	Québec
Postal Code	H3B 2S2
Telephone	416-209-2056
Email	acwilliams@live.ca

1.4 Roles and Responsibilities

The Environmental Manager will be ultimately responsible for the success of this plan and approves all relevant policies and documents, auditing, action planning and the verification process. The Environmental Manager is responsible for the implementation of this plan including overall management of the plan, internal reporting, compliance, and adaptive management.

Other relevant personnel will be responsible for the effectiveness of this Plan by completing required training and supporting the implementation of and compliance to this Plan, as appropriate to their roles, as set out by this Plan.

1.5 Distribution List

The distribution list for the Spill Contingency Plan is shown in Table 1; this table will be completed with the relevant contact information for the Spill Contingency Plan that will be developed during the permitting phase of the Project.

Table 1: Distribution List

Name	Contact Method	Position/Organization
-To be determined-		Project Supervisor
		Public Relations
		Camp Manager
		Inspector, Government of Northwest Territories (GNWT) - Lands
		GNWT – Environment and Natural Resources (GNWT-ENR), Water Resources
		Environmental Protection, Environment and Climate Change Canada
		Area Manager, Fisheries and Oceans Canada
		Environmental Protection Division, GNWT
		Mackenzie Valley Land and Water Board (MVLWB)
		Applicable PPML Employees/Contractors

1.6 Legislation and Guidelines

There are several pieces of territorial and federal legislation that apply to the Spill Contingency Plan objectives for the Project. Regulatory bodies that are expected to have jurisdiction over the Project once approved include:

- Fisheries and Oceans Canada
- Environment and Climate Change Canada
- Transport Canada
- Government of the Northwest Territories - Environment and Natural Resources (GNWT-ENR)
- MVLWB

Applicable environmental legislation and guidelines include:

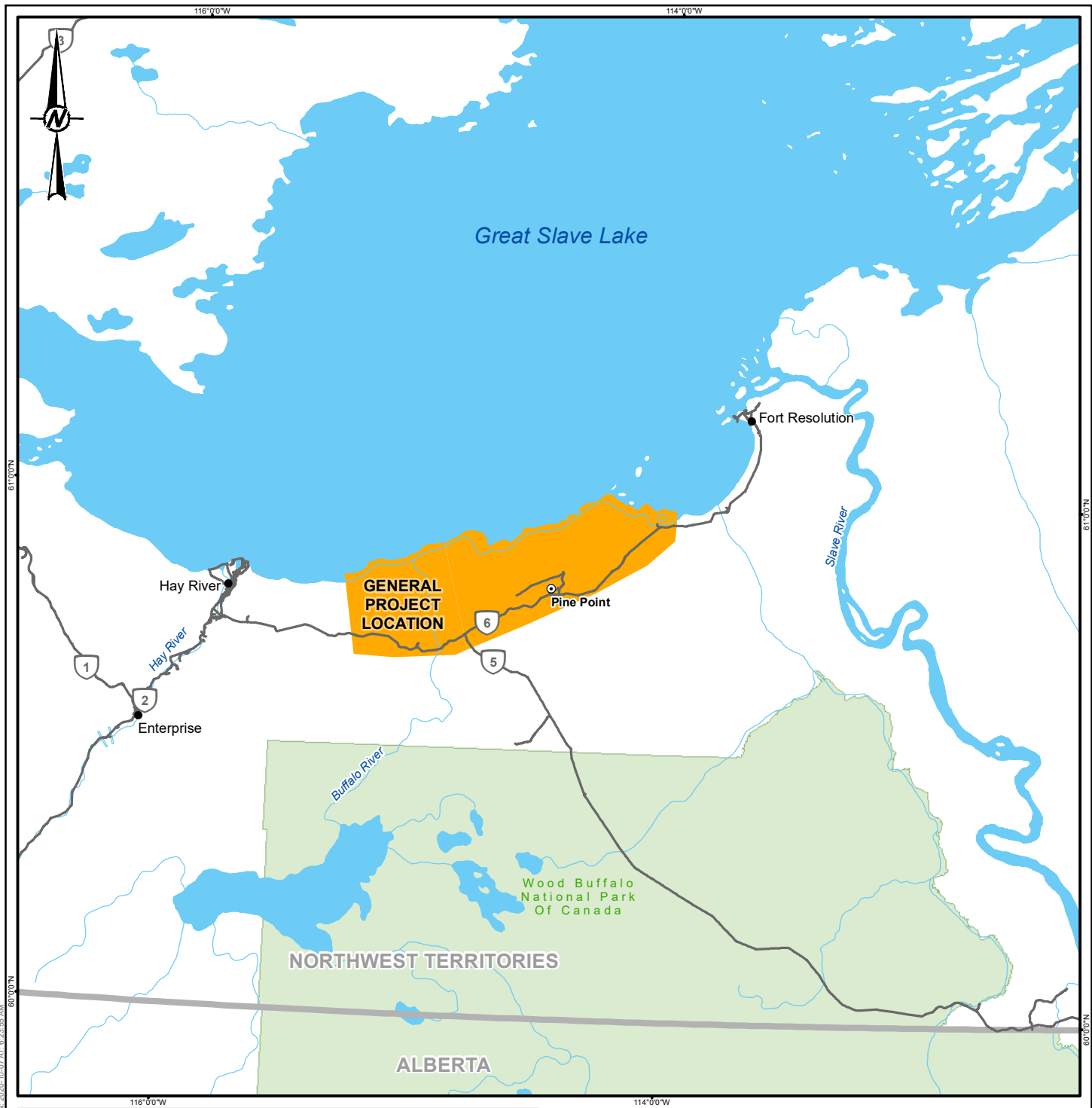
- *Fisheries Act*
- *Transportation of Dangerous Goods Act* and Regulations
- Northwest Territories *Environmental Protection Act* and regulations (including the *Spill Contingency Planning and Reporting Regulations*)
- Northwest Territories *Water Act* and Regulations
- Guidelines for Spill Contingency Planning (INAC 2007)

1.7 Project Details

The Project is located in the South Slave Mining District, south of Great Slave Lake in the Northwest Territories (NWT), approximately 175 km directly south of Yellowknife, 75 km east of Hay River, and 53 km southwest of Fort Resolution (Figure 1). It is located on a brownfield site resulting from Cominco's historical mining and milling operations and includes the historical town of Pine Point and associated working accommodations. The closest major transportation hubs are Yellowknife and Hay River. Access to the Project is presently via all-weather Highways 5 and 6.

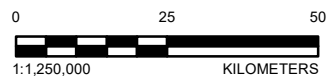
The Project will consist of open pit and underground mining for mineralized materials, construction and operation of up to three pre-concentration plants, construction and operation of a processing mill (or "concentrator"), storage and management of processed mineralized and waste materials, water management, construction and operation of ancillary support facilities including a camp for workers, and the shipping of zinc and lead concentrates to global markets. Further details are provided in the Project Description (Volume 1).

Maps indicating the Project footprint, infrastructure, storage locations of each hazardous material, probable spill locations and direction of flow on land and in water, catchment basins, locations of all response equipment, topography, approved disposal sites, and any other important on- or off-site features will be included in Appendix A when these details have been finalized.



LEGEND

- FORMER PINE POINT TOWN SITE
- POPULATED PLACE
- ALL-SEASON ROAD
- PARK/PROTECTED AREA
- WATERBODY
- GENERAL PROJECT LOCATION



REFERENCE(S)

1. BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 2. PARKS AND PROTECTED AREAS OBTAINED FROM CONSERVATION AREAS REPORTING AND TRACKING SYSTEM (CARTS), CANADIAN COUNCIL ON ECOLOGICAL AREAS, 2017.
- PROJECTION: ALBERS CONIC EQUAL AREA

CLIENT
PINE POINT MINING LTD.

PROJECT
PINE POINT PROJECT

CONSULTANT



YYYY-MM-DD	2020-10-07
DESIGNED	DC
PREPARED	BW / MM / JE
REVIEWED	DP
APPROVED	DP

TITLE

PROJECT LOCATION

PROJECT NO.	CONTROL	REV.	FIGURE
19125747		0	1

PATH: I:\2019\19125747\MapInfo\Products\General\Enr_19125747.mxd PRINTED ON: 2020-10-07 AT: 6:23:55 AM
 60°0'0"N 116°0'0"W 114°0'0"W 60°0'0"N

25mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIA

1.8 List of Hazardous Materials

Safety Data Sheets that describe the physical and chemical characteristics of all liquid chemicals that will be used and stored on-site, will be provided in Appendix B.

1.9 Preventative Measures

Several preventative measures will be implemented as outlined below. Additional measures will be outlined in subsequent versions of the plan once additional Project details and locations are available.

Fuel storage and refuelling areas will be located at a minimum 150 m away of the high-water mark of any waterbody. Site personnel will conduct daily inspections of fuel storage and refuelling areas to check for, and immediately repair leaks or damage to containers, as well as monitor for stained or discoloured soils as an indication of potential leaks. Regular maintenance and oil checks of all motorized equipment will also be completed to avoid preventable leaks. Drip trays will be placed under all vehicles and equipment not in use for two hours or longer.

The following measures will be implemented during the Project:

- Training will be provided to site staff who will be responsible for handling, transferring, and dispensing fuel at the site. Safe practices include, but are not limited to, constant attendance during fuelling, using absorbent material, and awareness of pump or emergency shut-off location. Training records will be maintained at site by the Site Coordinator.
- Full-sized spill kits (described in Section 4.1), fire extinguishers, and extra sorbent matting and other similar materials will be stored and readily available at each fuel storage site.
- Any fuel drums to be shipped to site will be labelled with PPML's name in accordance with Land Use Permit conditions.
- The fittings and connection points of all drums in use (i.e., those connected to stationary heating units or generator systems) will be closed with appropriate Teflon tape, and will be wrapped with absorbent pads, and buckets will be placed under the connection for secondary containment.
- Secondary containment or an impermeable surface liner (e.g., drip pans and fold-a-tanks) will be placed under all containers and vehicle fuel tank inlet and outlet points, hose connections, and hose ends during fuel and hazardous substance transfers. Secondary containment will be of adequate size and volume to contain and hold fluids for the purpose of preventing spills.
- Transfer operations will be attended by trained personnel at all times.
- At auxiliary site(s), drums of fuel for drills will be stored on a secondary containment or in a double walled tank. Absorbent materials will be present should a spill occur.

At all times, the operators will maintain a storage tank designated for the collection of used oil and provisions made to provide containment in the event of an overflow or spill during liquid transfer to the drum.

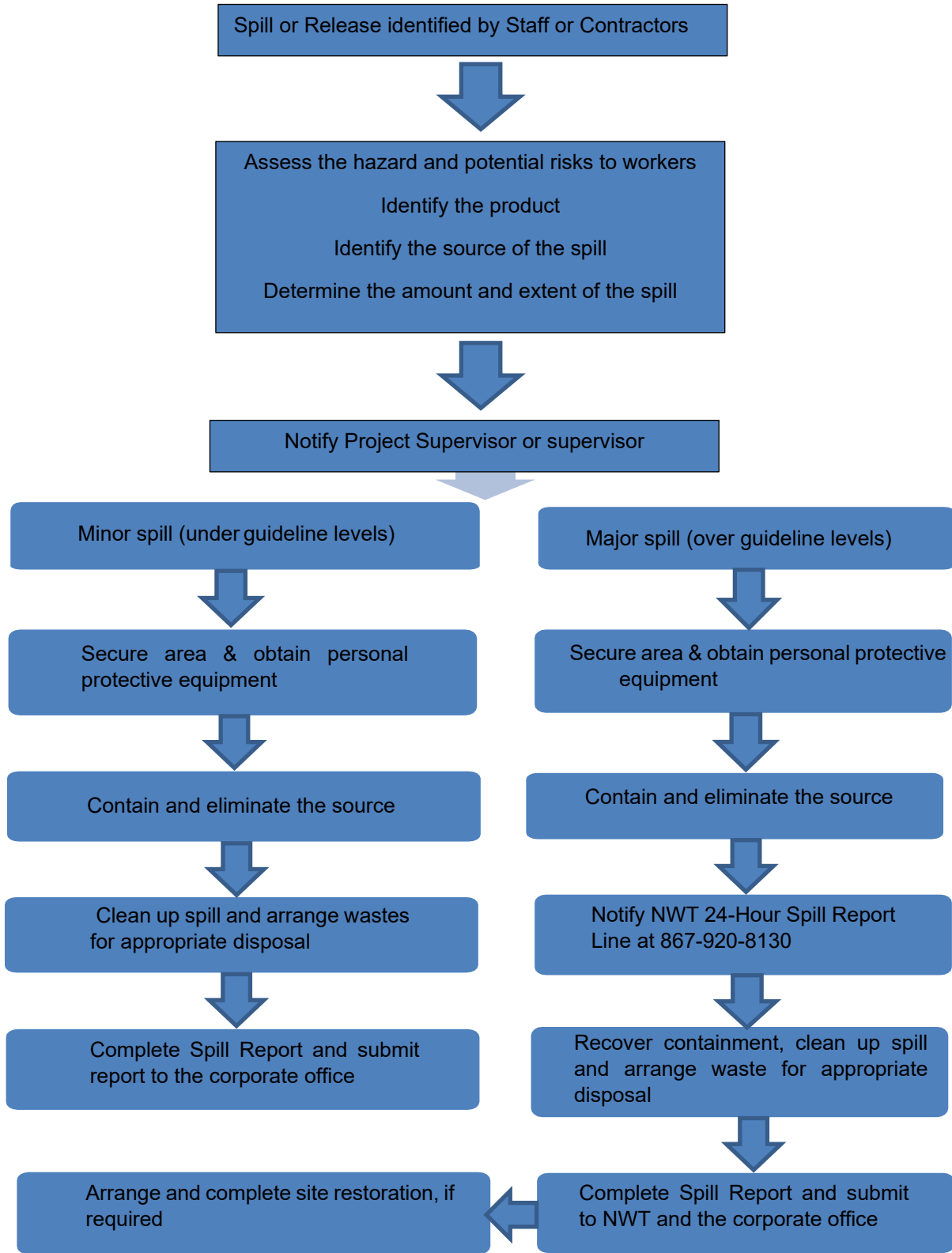
1.10 Access to Copies of the Spill Contingency Plan

Copies of this Spill Contingency Plan are available at PPML's head office in Montreal, Quebec. Copies are available upon request from Andrew Williams, Environmental Manager, who can be contacted at 416-209-2056. Any revisions to the document are identified at the beginning of this document. Copies of the Spill Contingency Plan are kept on-site in the Field Office and will be made readily accessible to all personnel on-site and will be reviewed with all personnel regularly.

2 Response Organization

Basic steps to take in the event of a spill are outlined in Figure 2. This chart provides a general framework for response, with detailed descriptions actions to take at each stage of the emergency outlined further outlined in Section 3.0. A quick and effective response to a spill situation can greatly reduce any associated negative impacts.

Figure 2: Basic Steps to Take in the Event of a Spill



3 Spill Action Plans

3.1 Potential Discharge Events – Worst Case Scenario

The types of potential Project-related spill events, including associated discharge volumes and worst-case scenarios, will be outlined in Table 2.

Table 2: Potential Discharge Event:

Material	Potential Discharge	Discharge Volume, () indicates worst case volumes	Direction of Potential Discharge	Environmental Impacts
-To be determined-				

3.2 Spill Response Procedures

This section describes the cleanup response and protocols to follow in the event of a fuel or oil spill. The uncontrolled discharge of fuel and oil into groundwater, surface water, or soil is prohibited by territorial and federal laws. It is imperative that actions be taken to respond to a spill once it has occurred. In the event of a spill, the Project has defined a spill response procedure as described below.

Prompt response to a spill is the best means of minimizing impact to the environment and, in particular, preventing a discharge from reaching waterbodies. In the event of a spill of a petroleum product, the employee first becoming aware of the spill will assume the role of temporary spill coordinator until he/she can notify the Project Supervisor. If the temporary spill coordinator is unable to notify the Project Supervisor or their supervisor, then he/she will assume the responsibility of implementing the emergency spill response procedures provided that he/she has been trained on the means of protecting the health and safety of spill response personnel and on the implementation of this Spill Contingency Plan. The spill coordinator will assess the hazard, secure spill response materials and personal protective equipment (PPE), contain the spill to the extent possible, and eliminate the spill source to the extent possible as outlined below.

3.3 Assess Hazard

Upon notification of a spill, the spill coordinator will determine the hazard potential of the spill. The spill coordinator will determine at least the following factors:

- the substance spilled and its hazard potential
- the amount of the spill and the extent of spreading
- the source of the leakage and spill

If a spill occurs, where appropriate, the spill coordinator will consult with the camp provided emergency responders to determine the potential hazard to employees from the substance spilled. If a spill is determined to be of such a magnitude that it cannot be safely and effectively controlled by site personnel, then the spill coordinator will promptly notify the outside emergency response agency to implement control and clean-up. A list of emergency contacts is included in Section 4.2.

3.4 Secure Spill Response and Personal Protective Equipment

Upon determining the hazard potential for the planned response action, the spill coordinator will direct those who will respond to the spill to obtain the appropriate response equipment and PPE. Employees will not be issued spill response equipment or PPE without having been trained on its proper use and limitations. The spill coordinator will also ensure the removal of all sources of ignition from the area when dealing with hydrocarbon spills.

3.5 Contain and Eliminate Spill Source

Upon obtaining the proper spill response tools and PPE, the spill coordinator and any spill responder(s) will first attempt to contain the spill to prevent its entry into a ditch or conveyance that eventually discharges to a waterbody. The speed and direction of the spill will be assessed, and appropriate containment used to hinder this movement. Examples of equipment and media that can be used to contain spills include dikes and berms, sand and oil absorbent materials such as kitty litter, straw bales, and absorbent pillows and booms.

At the same time as containment is being performed or as soon as possible after containment, the spill responder(s) will attempt to seal or otherwise stop the source of the spill, if it is safe to do so. Common methods of eliminating a spill source include closing valves, use of a leak stopping compound for pinhole leaks, drum over-packs, and deactivating pumps. The spill response priority at this stage is to:

- protect human health
- protect the environment
- protect equipment

In the event contractor assistance is required for cleanup, the spill coordinator or alternate will arrange for timely cleanup with an outside contractor.

3.6 Notification and Reporting

The NWT-Nunavut Spill report form is provided in Appendix C. The Project Supervisor will determine if a spill is reportable in accordance with the criteria listed in Appendix D. In the event of a reportable spill, the Project Supervisor shall notify the NWT 24-Hour Spill Report Line (see Section 4.2 for contact information). Before reporting, the following information should be known regarding the spill:

- date and time of the spill
- location of spill
- direction the spill is moving
- name and phone number of the person close to the location of the spill
- type of contaminant spilled, and quantity spilled
- cause of the spill
- whether the spill is continuing or is stopped

- description of the existing containment
- actions taken to recover, clean, and dispose of the spilled contaminant
- name, address, and phone number of the person reporting the spill
- name of person in charge of management or control at the time of the spill

The Spill Report (Appendix C) must be completed and faxed or emailed to the NWT 24-Hour Spill Report Line. This form requires details about the time, material and quantity released.

It is expected that as per Water Licence conditions, a detailed report on each spill and unauthorized discharge, including descriptions of root causes, response actions and any changes to procedures to prevent similar occurrences in the future will be provided to the MVLWB within 30 days.

The NWT 24-Hour Spill Report Line must be notified of a spill immediately if either of the following occurs:

- The spill exceeds one of the volumes listed, by chemical type, within the immediately reportable quantities table in Appendix D.
- The spill is near or reaches a waterbody, is near or into a designated sensitive environment or sensitive wildlife habitat, poses imminent threat to human health or safety, poses imminent threat to a listed species at risk or its critical habitat, or is uncontrollable.

If notification is required, it will be done by only the Project Supervisor, who has been trained on how and when to notify external agencies by telephone. A record of that telephone report must be made, including the name of the person contacted at the NWT 24-Hour Spill Report Line as well as any direction received from the regulator during the telephone call.

Copies of spill reports submitted to regulatory agencies need to be forwarded to Andrew Williams.

If the spill is not reportable, the spill coordinator must still complete the spill report form and forward to Andrew Williams, PPML Environmental Manager, without contacting external agencies. Spill records will be compiled and reviewed to establish patterns in spill events, if any, and to determine if further preventive actions should be taken.

3.7 Spill-Related Waste Disposal

Wastes resulting from a minor spill response will be contained in impervious bags, drums, or buckets. Any free-standing liquid will be collected by using absorbents or pumped into marked storage containers. Contaminated soil, ice, or snow will be excavated and stored in marked containers. Tools such as cans, shovels, or rakes may be used to collect the contaminated material. Following any clean-up, any tools or equipment used will be properly washed and decontaminated or replaced if this is not possible.

All hydrocarbon waste, be it hydrocarbon-impacted soils or waste oil, will be transferred to the onsite landfarm or shipped to a registered hazardous waste receiving facility for proper disposal.

3.8 Site Restoration

If a reportable spill should occur, PPML will communicate with GNWT-ENR and other government agencies on any required site restoration activities. Where required, PPML will conduct site-specific studies to assess the extent of soil and groundwater impact and develop a remediation program considering contamination excavation and removal or in place treatment/bioremediation, as appropriate to the nature of the impact. Site investigation and remediation work will be completed in consultation with any assigned agency representatives, as required.

4 Equipment and Resource Inventory

4.1 On-site Spill Response Equipment

Hand tools will be kept on site to aid in the mitigation of hazardous materials spills. Mobile equipment will also be available for emergency use and to respond to spill incidents. PPML and its contractors will maintain spill kits on-site.

Spill kits are expected to contain the following types of items:

- (1) 16 gauge open-top drum with bolting ring and gasket (205 L)
- (1) package of 10 disposable polyethylene bags (5 mil; mil is plastic thickness, 5 mil = 0.005 inch)
- (1) shovel (spark proof)
- (4) 5 inch x 10 foot absorbent booms
- (1) 10 pound bag of absorbent particulate
- (1) bail of 17 inch x 19 inch = sorbent sheets (100 sheets)
- (2) PVC oil resistant gloves
- (2) respirators
- (2) pairs splash protective goggles

4.2 Off-site Resource Inventory

Depending on the severity of the spill, the off-site resources presented in Table 3 could be contacted. Based on the remote location of the sites, these resources will not likely be able to arrive on-site immediately following contact.

Table 3: Off-site Resources

Contact	Phone Number
-To be determined-	

5 Training and Exercises

5.1 Introduction

PPML is responsible for providing a qualified supervisor and training site workers in spill response. Any persons involved in the handling and shipping of hazardous materials will receive Transportation of Dangerous Goods (TDG) training and will maintain a valid TDG certificate.

5.2 Training

PPML has established spill response and spill awareness orientations to be completed by staff at the Project site. All individuals entering the site must complete spill awareness training at the point of arrival to the site. The Project Supervisor designate conducts an orientation session that provides an overview of the locations of spill response equipment (as outlined in Figure 2) and who to contact on-site in the event of a spill. Key site staff have basic first aid training as well as WHMIS.

In addition to the information provided during the spill awareness training session, spill responders are instructed on step by step methods to identify, assess, and respond to spill situations. This training includes a review of how to use absorbent and other spill response equipment and how to properly dispose of contaminated spill response equipment. A mock spill exercise will be used to familiarize spill responders with the equipment available and the steps to take during typical spill situations that may occur on the Site.

5.3 Mock Exercises

Inspectors and other relevant regulators will be notified of planned upcoming mock spill exercises so that regulators have the option of observing the onsite exercise. Mock exercises must be held, at minimum, annually and a record of the exercise retained. The exercise record must detail, at minimum, a description of the exercise scenario tested, time, date, names of participants, outcome of the exercise, lessons learned and, if applicable, corrective actions to be taken as a result of the exercise.

5.4 Schedule and Record Keeping

The training session and exercises will be held prior to the start of construction as part of a worker orientation seminar. Follow up training sessions for new and current employees will occur on a suitably recurring schedule so that returning individuals receive a refresher while new individuals become familiar with onsite spill prevention and response measures.

PPML will keep records of all individuals who attend the training session and exercises, as well as copies of their training certificates (e.g., first aid and WHMIS).

6 Media and Public Enquiries

6.1 General Policy on Public Relations

All enquiries are to be directed to the Project Supervisor.

Environmental incidents such as spills often attract local interest and media attention. Employees will not make any statements on behalf of PPML to the media or to the public.

Employees will respond fully to any request from local authorities or emergency workers that will help to control the spill and its damage. Employees will refer all other requests for information to the Project Supervisor. This may include questions from reporters, environmental agencies, or people and property owners affected by a spill. When probing questions are asked, it is important that the response is polite and professional; for example:

“I’m sorry. I don’t have the authority to answer that question. Please contact _____.
His/her phone number is _____.”

NWT Spill Reports are available for the public to view upon request by contacting the NWT Spill Line or by viewing the GNWT Hazardous Materials Spill Database online at http://apps.enr.gov.nt.ca/app/spills/epd_spills/asp/login.asp.

7 References

Acts and Regulations Cited

Environmental Protection Act. RSNWT 1988, c E-7. Available at <https://www.justice.gov.nt.ca/en/files/legislation/environmental-protection/environmental-protection.a.pdf>

Fisheries Act. RSC 1985, c F-14. Last amended 28 August 2019. Available at <https://laws-lois.justice.gc.ca/eng/acts/f-14/>

Spill Contingency Planning and Reporting Regulations. R-068-93 under the *Environmental Protection Act*. Available at <https://www.justice.gov.nt.ca/en/files/legislation/environmental-protection/environmental-protection.r2.pdf>

Transportation of Dangerous Goods Act, 1992. SC 1992, c 34. Last amended 28 August 2019. Available at <https://laws-lois.justice.gc.ca/eng/acts/t-19.01/>

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INAC (Indian and Northern Affairs Canada). 2007. Guidelines for Spill Contingency Planning. Water Resources Division, INAC, Yellowknife, NT. http://www.enr.gov.nt.ca/sites/enr/files/guidelines_for_spill_contingency_planning_2007.pdf

MVEIRB (Mackenzie Valley Environmental Impact Review Board). 2018. Draft EA Initiation Guidelines for Developers of Major Projects. Accessed March 2020. Available at <http://reviewboard.ca/file/1132/download?token=c5tFrEgL>

Appendix A Project Maps

Will be provided in final version

Appendix B Safety Data Sheets

Will be provided in final version

Appendix C NT-NU Spill Report Form



Canada

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

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B		OCCURRENCE DATE: MONTH – DAY – YEAR			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
I	SPILL SOURCE		SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	M	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER	
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

Appendix D Immediately Reportable Spill Quantities

MVLWB / GNWT

Operation and Maintenance Plan

Templates for Municipal Water Licences: Spill Contingency Plan

November 10, 2015



Operation & Maintenance Plan Template – Spill Contingency Plan

If you have any questions about this document, please contact your regional Manager of Community Infrastructure Planning.

1. Site & Systems Description

Community:

Which facilities do these plans cover? Include only facilities where the community would be responsible for responding to a spill. (Check all that apply.)

Water Treatment Plant (WTP)

Solid Waste Facility (SWF)

Wastewater Treatment System (WWTS), specify type:

Mechanical Plant

Natural Lake Lagoon

Engineered Lagoon

Exfiltration System

Bulk Fuel Storage Facility

Community Garage

Swimming Pool

Landfarm at separate location from SWF

Other (specify):

Attach a map showing the **location of each facility** (multiple facilities can be shown on one map, or you can use separate maps). Include any additional community fuel storage locations, such as an airport fuel facility. Show the **municipal boundaries** on each map. Show the **location of fuel and other hazardous materials** stored at each site. If applicable, show the location of the **fuel and pump for a seasonal reservoir fill**.

Map(s) attached

2. Spill Contingency Plan (SCP)

2.1 SCP – Introduction

What is the Effective Date of the Spill Contingency Plan? (yyyy/mm/dd)

This Spill Contingency Plan is effective from the date shown above until such time that an updated contingency plan is in place. Updated plans should include a list of all revision dates and a brief summary of the changes made to the plan. In the event of a spill during a period of review this plan shall take precedence. This plan applies to all operations and activities conducted within the municipal boundaries of . This Spill Contingency Plan was developed to comply with the Environmental Protection Act. R.R.N.W.T. 1990,c.

2.2 SCP – Revisions

The Spill Contingency Plan should be updated annually, at a minimum, to reflect changes such as fuel storage locations, new hazardous materials on site, new construction and new personnel and contact information. **Use the following table to record a summary of revisions each year.** Add new pages as needed.

Date of Revision (yyyy/mm/dd)	Title, Section Number, or Page Number of Revised Sections	Summary of Changes

2.3 SCP – Purpose

The purpose of this plan is to outline response actions for potential spills of any size, including a worst case scenario, for the . The plan identifies key response personnel and their roles and responsibilities in the event of a spill, as well as the equipment and other resources available to respond to a spill. It details spill response procedures that will minimize potential health and safety hazards, environmental damage, and clean-up efforts. The plan has been prepared to ensure quick access to all the information required in responding to a spill.

It is the policy of the :

- To comply with existing regulations
- To provide such protection of the environment as it is technically feasible and economically practical
- To cooperate with other groups on the protection of the environment
- To keep employees, government officials, and the general public informed

2.4 SCP – Contact Information & Responsibilities

An **immediately reportable spill** is defined as a release of a substance that is likely to be an imminent environmental or human health hazard or meets or exceeds the volumes shown in the attached table. These spills **must be reported** to the NWT 24-hour Spill Report Line at (867) 920-8130.

NWT 24-Hour Spill Line: 867-920-8130

Provide contact information for spill response personnel. Where possible, provide additional phone numbers to ensure contacts can be reached 24 hours a day in the event of a spill.

Band Manager:

Name:

Phone:


Second phone:

Senior Administrative Officer (SAO):

Name:

Phone:

Second phone:



Maintenance Foreman:

Name:

Phone:

Second phone:

Works Foreman:

Name:

Phone:

Second phone:

Additional copies of the Spill Contingency Plan may be obtained by contacting:

Name:

Position:

(normally SAO or Band Manager)

Phone:

Email:

Fax:

Media inquiries should be directed to:

Name:

Position:

Phone:

Email:

Fax:

Who is responsible for activating the Spill Contingency Plan at each facility in the event of a spill?

	Name	Job Title	24-hour telephone number(s)
WTP			
WWTS			
SWF			
Bulk Fuel Storage Facility			
Community Garage			
Other			
Other			

2.5 SCP – Off-Site Resources

Off-site resources for assistance in the event of a spill are listed below. Assistance from outside the community may not be able to reach the site until at least the next business day.

- NWT 24-Hour spill line (867) 920-8130
- GNWT Environmental Protection Division (867) 873-7654
- ENR Inspector (867)
- AANDC Northwest Territories Region (867) 669-2440
- Environment Canada (Emergency) Yellowknife (867) 669-4725
- GNWT Environmental Health Officer (867) 669-8979
- RCMP (Yellowknife) (867) 669-1111
- Stanton Territorial Health Authority (867) 669-4111
- Dehcho Health & Social Services Authority (867) 695-3815
- Medivac (Yellowknife) (867) 669-4115
- Great Slave Helicopters (Yellowknife) (867) 873-2081
- Matrix Helicopters (Yellowknife)..... (867) 766-3134
- Trinity Helicopters (Yellowknife)..... (867) 669-7031
- Remote Helicopters (Hay River) (867) 874-6999
- Thebacha Helicopters (Fort Smith) (867) 872-4354
- Air Tindi (Yellowknife) (867) 669-8218
or 669-8200
- Arctic Sunwest Charters (Yellowknife) (867) 873-4464

2.6 SCP – Emergency Phone & Radio Locations

Where are Emergency telephones and/or radios located?

Water Treatment Plant

Wastewater Treatment System

Solid Waste Facility

Bulk Fuel Storage Facility

Community Garage

Community's main office

Other (specify):

2.7 SCP – Distribution & Storage of Spill Contingency Plan

A copy of this Spill Contingency Plan should be kept on site at each facility at all times and at the Community's main office. Indicate which locations have a copy of the Spill Contingency Plan (check all that apply):

Water Treatment Plant

Wastewater Treatment System

Solid Waste Facility

Bulk Fuel Storage Facility

Community's main office

Other (specify):

Which offices have received a copy of the Spill Contingency Plan as part of the formal distribution of the plan? Choose the applicable office from each menu. The address and contact information will automatically be filled in below.

Choose **Regional Land and Water Board**:

Choose **Municipal and Community Affairs**

(MACA) regional office:

Choose **Public Works and Services (PWS)** office:

Choose **Health & Social Services Authority**:

Formal distribution of the Spill Contingency Plan has been made to the following offices:

2.8 SCP – Community Environmental Policy

The _____ is committed to operating in an environmentally sensitive manner, and complying with requirements of the _____.

2.9 SCP – Potential Spill Materials Inventory

In this section, you will create a **Potential Spill Materials Inventory** by listing the hazardous materials stored at each site that could lead to a spill.

The following tables list hazardous materials on-site for each facility that may pose a spill risk, the type of storage container, the average and maximum quantities stored and their storage location. Tables are provided for the most common facilities. Use the two “Other Location” tables at the end of the section to add additional facilities such as a community pool, landfarm (other than one that is part of the Solid Waste Facility), or other facilities with chemical storage. Do not include sewage or fuel tanks installed at individual buildings or households.

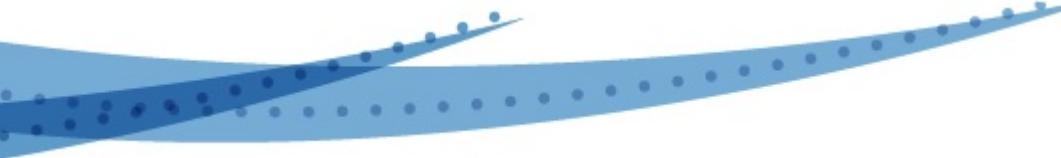
Materials commonly found at each type of facility have been listed as a starting point. Skip any materials that are not used at your facility. Add any additional materials at the end of the list for each facility.

Water Treatment Plant (Do not list small quantities of reagents or calibration standards used for in-plant water testing.)

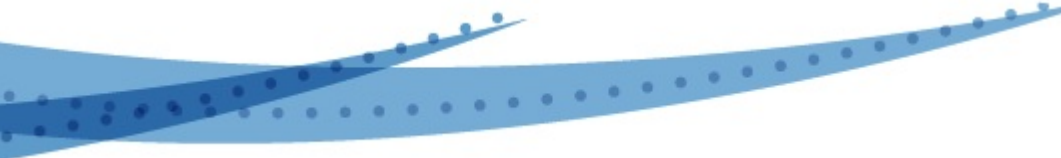
Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses
Sodium Hypochlorite (liquid) and/or household bleach				
Sodium Hypochlorite (powder)				
Sodium Hydroxide (Caustic Soda)				
Vita-D-Chlor (Ascorbic Acid)				
Diesel or heating fuel				
Aluminium sulfate or alum				
Coagulant-aid polymer				



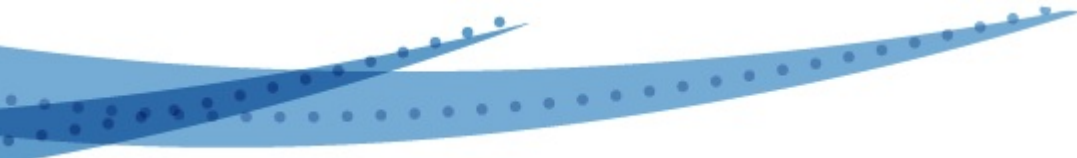
Wastewater Treatment System				
Material	Type of Storage Container or Containment	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses
Sewage or wastewater				
Diesel or heating fuel				
<p>Solid Waste Facility (For additional information on the hazardous waste materials listed in this section, please refer to the “Hazardous waste information” pages appended to this document.)</p>				
Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses
Diesel or heating fuel				
Household Hazardous Waste				
Asbestos				



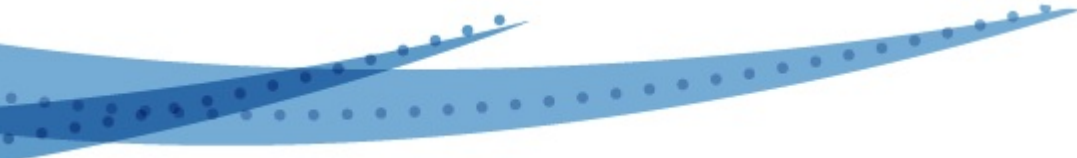
Lead-acid Batteries				
Antifreeze or glycol				
Hydrocarbon-contaminated soil, snow, or water				
Mercury				
Oily Debris				
Halocarbons or Refrigerants				
Paint				
Propane Tanks				
Residue Fuel Tanks, Heating Oil Tanks, Drums				
Used oil				
Waste fuel				
Vehicles				



Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses
Gasoline				
Diesel or LSDL fuel				
Jet-A				
Propane				



Community Garage				
Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses
Diesel or heating fuel				
Glycol or antifreeze				
Engine oil				
Transmission fluid				
Brake fluid				
Other Location 1 (specify):				
Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses



Other Location 2 (specify):

Material	Type of Storage Container	Quantity Normally Onsite (L/drums/gallons)	Maximum Quantity Onsite (L/drums/gallons)	Storage Location and Uses

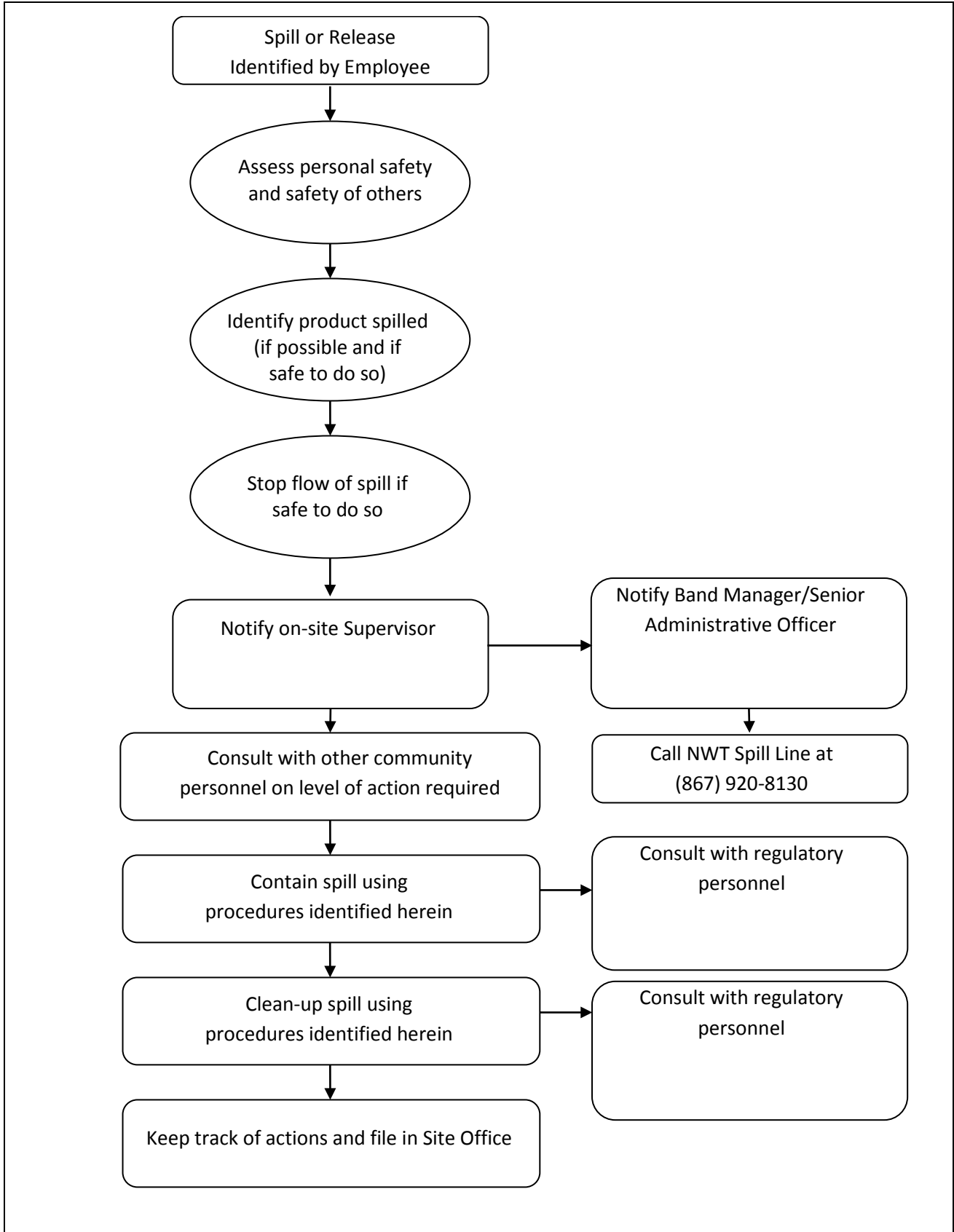


2.10 SCP – Response Flowchart

The flow chart on the following page identifies the response organization and the chain of command for responding to a spill or release.

If Other, name:

If Other, phone:



2.11 SCP – Action Plan

Reservoir Fill Operation and Flammable Liquids

Is there a seasonally-filled water reservoir in the community?

Yes No

If yes, which fuels, oils and chemicals are used in the filling operation? Indicate the maximum quantity stored on or adjacent to the ice, in Litres. (If no, skip this section.)

Diesel fuel	Max quantity on ice :	Litres
Engine oil	Max quantity:	Litres
Gasoline	Max quantity:	Litres
Antifreeze	Max quantity:	Litres
Automatic Transmission Fluid	Max quantity:	Litres
Other (specify):	Max quantity:	Litres

Where is the reservoir refill pump located?

Distance from reservoir: m

Direction from reservoir: of reservoir

Response Strategy

In the event of a spill:

- Be alert and consider safety first. If possible, identify the product spilled and the source of the spill.
- Assess the fire and safety hazard to human life; warn people in and around the spill area to vacate the area if necessary
- Shut off the source of the spill, if safe to do so.
- Shut off all machinery or equipment, for example: lights, motors, furnaces, truck engines that may cause sparks, etc. to start a fire, no smoking.
- Tend to the injured, if any.
- Secure the area by not letting any vehicles or persons enter the area.
- Use good judgment to safely stop the spill product from spreading, if possible, by creating a barrier to keep the area of spill from getting larger
- Notify the SAO / Acting SAO that a spill has occurred. The SAO will follow these steps:
 - Step 1: Activate the Spill Recovery Plan.
 - Step 2: Consult with on-site staff and determine appropriate level of response.
 - Step 3: Notify all relevant government departments using the 24-hour Spill Line.
 - Step 4: Deploy appropriate staff resources, including Rubber Tire Loader, Municipal Works staff, Spill Containment Kit located as listed in section 2.13.
 - Step 5: Commence spill containment and collection activities.
 - Step 6: See that the contaminated materials are disposed within the solid waste disposal area.
 - Step 7: Complete spill report.

Sewage Spills

The main source for a sewage spill in _____ would be the sewage truck and/or sewage holding tanks in a home or community building. The maximum size of a sewage spill is most likely limited to the capacity of the sewage truck.

Response Strategy

In the event of a spill:

- Be alert and consider safety first. If possible, identify the product spilled and the source of the spill.
- Shut off the source of the spill, if safe to do so.
- Tend to the injured, if any.
- Secure the area by not letting any vehicles or persons enter the area.
- Use good judgment to safely stop the spill product from spreading, if possible, by creating a barrier to keep the area of spill from getting larger
- Notify the SAO / Acting SAO that a spill has occurred. The SAO will follow these steps:
Step 1: Activate the Spill Recovery Plan.
Step 2: Consult with on-site staff and determine appropriate level of response.
Step 3: Notify all relevant government departments using the 24-hour Spill Line.
Step 4: Deploy appropriate staff resources, including Rubber Tire Loader, Municipal Works staff, Spill Containment Kit located as listed in section 2.13.
Step 5: Commence spill containment and collection activities preferably using the backup sewage truck. Use of the municipal loader is preferred for the creation of a containment berm and the collection of contaminated soil. The spill contact area is to be treated with lime and covered with soil.
Step 6: See that the contaminated materials are disposed of within the solid waste disposal area.
Step 7: Complete Spill Report.

General Community Operations

On a daily basis the community conducts operations that have the potential to be a small spill situation. Reporting for these spills will be in accordance with the Environmental Protection Act and the volumes outlined in the list of Immediately Reportable Spill Quantities appended to this document.

Defensive Spill Position

General community operations include:

- Retain sufficient supplies (sorbent) in community-owned vehicles and potential spill locations to contain potential spill volumes. Such as motor oil generated from servicing vehicles, gasoline and diesel from the fuelling of equipment.
- Using Storage tanks that meet the fire code and Fire Marshal's recommendations (Dyked tanks or double-walled).
- Training personnel in safe, sensible operational procedures.
- Retain minimum economic volumes of chlorine and other chemicals in the community's

possession to reduce the size of a potential spill.

- Retain Safety Data Sheets (SDS) for all chemicals in use.

Response Strategy

The response strategy would be the same as the Reservoir Fill Operation and Flammable Liquids section above, incorporating the information from the appropriate SDS.

Note: Specific chemicals have specific spill containment requirements; the SDS for these chemicals identify the procedure for its collection.

Attach SDS (or MSDS) for all chemicals, fuels, and oils used in community operations.

SDS attached.

Hazardous Material Spills On-site

Indicate which of the following materials are generated or stored in your community (check all that apply):

Gasoline

Diesel

Waste Oil and Miscellaneous Oils and Grease

Sewage

Potential Environmental Impacts of Spill

Generally, for the hazardous materials discussed below, environmental impacts are lower during the winter, as snow is a natural sorbent and ice forms a barrier lining for eliminating soil or water contamination. Spills can be more readily recovered when identified and reported.



Procedures for Initial Actions

The following list of actions should be followed by the first person on the scene:

- Ensure safety of all personnel
- Identify the product spilled
- Assess the hazards and risks to persons in the vicinity of the spill
- Remove all sources of ignition
- If possible, without further assistance, control the danger to human life
- If it is safe to do so, and if possible, stop the spill (i.e. shut off pump, replace cap, tip drum upward, etc.)
- Gather information on the status of the situation, including:
 - Estimated size of spill
 - Estimated migration route
- Contact on site Supervisor.

Spill Reporting Procedures

Spills should be reported immediately to the onsite Supervisor, who will notify the SAO and Band Manager. Together they will determine if the spill is to be reported to the NWT 24-Hour Spill Line at 867-920-8130, based on the volumes in the Immediately Reportable Spill Quantities table at the end of this document.

Copies of the Spill Report form are available in each spill kit and at the end of this document. The form will be filled out by the onsite Foreman (or designate), and faxed or emailed to the NWT Spill Line. Contact information is as follows:

NWT 24-Hour Spill Line
Phone: (867) 920-8130
Fax: (867) 873-6924
Email: spills@gov.nt.ca

Procedures for the Protection of Human Health and Safety

Following a spill, the health and safety of workers as well as the general public is a priority. Actions taken will depend on the type of spill.

- In the event of a chemical spill: Restrict public access to the spill area. Workers involved in the clean-up of the spill should wear personal protective equipment (PPE).
- In the event of a flammable or combustible material spill: Disconnect electrical equipment, evacuate adjacent buildings and restrict public access to the spill area. Only spark-arresting equipment should be used during clean-up of the spill. PPE should also be worn by workers involved in the clean-up.
- In the event of a sewage spill: Restrict public access (including pets and animals) to the spill area.

Procedures for Containing and Controlling Spills

General procedures noted below will be used to contain and control all spills. Specific procedures for spills on land, water, snow and ice follow.

- First anticipate what will be affected by the spill.
- Assess direction and speed of spill, and any factors that could affect these (water, wind and slope).
- Determine best location for containing spill, avoiding any water bodies.

Containment of Spills on Land:

Dykes and trenches can be constructed to contain spills on land. Soil surrounding the spill area can be dug out, and piled up, to create a barrier for the spill. A plastic tarp can be placed at the base of the dyke, so that the pooled material can be removed with sorbent materials. Conversely, trenches can be excavated to permafrost, which will provide a natural containment of the spill. Once the material is contained, it can be pumped out, or removed by using sorbent materials. If the spill is moving very slowly, such structures

may not be necessary and the material can be removed before migrating away from the spill location.

Containment of Spills on Water:

Spills on water are considered the most serious types of spills, as there is often no containment of the spilled material and water quality and aquatic life are negatively impacted. Booms, weirs, sediment curtains and fencing can be installed to contain the spill. Booms are designed to float, and are made of absorbent material to soak up the spilled fuel. They are deployed from the shore or a boat, to create a circle around the spill or to contain a spill from migrating further into the receiving water bodies. Weirs are installed across creeks/drainages, to prevent further migration. Plywood or other materials found onsite can be used. Barriers made of fence or netting can be used as well, with sorbent material placed at the base of the barrier. Once contained, the fuel can be removed by absorbent materials, pumped out or allowed to volatilize.

Containment of Spills on Snow:

Snow acts as a natural sorbent for spilled fuel. Impacted snow is easily visible, and can be shoveled into empty drums or barrels for proper disposal. If the spill is migrating down a hill, a snow dyke can be constructed to contain the spill. A plastic tarp can be placed at the base of the dyke, where spilled fuel is expected to pool. The collected fuel and impacted snow can be removed with absorbent materials, pumped out, or shoveled into barrels for disposal.

Containment of Spills on Ice:

Ice is considered impermeable to fuel, so these spills are generally easy to clean up. Small spills can be cleaned up by placing absorbent materials on top of the ice. Impacted snow and slush can then be removed by shovels, and placed in barrels for disposal. For larger spills, dykes of snow and trenches can be constructed to contain the spill. Pooled fuel can then be removed by absorbent materials or pumped out. Impacted snow and slush can be shoveled into barrels for disposal.

Worst Case Scenarios:

Worst case scenarios include a dyke or trench overflowing and a large spill on water that cannot be contained with materials available in the community. In the first case, a trench or collection pit could be constructed downstream to collect the fuel. In the second case, an emergency response team would need to be called, with appropriate equipment to deal with the spill.

Procedures for Transferring, Storing and Managing Spill Related Wastes

Spills are generally cleaned up starting at the outer limit of the spill, and working towards the point of the spill. Sorbent materials and hand tools such as cans and shovels are used for smaller spills. Larger spills can be contained with the use of a pump and/or heavy equipment.

Spill wastes include used absorbent materials and containers of impacted water and snow. Sorbent materials should be placed in plastic bags for proper disposal. The containers of impacted water and snow should be sealed and stored until disposal at an approved facility can be arranged. For most of the containment procedures, spilled petroleum products and materials used for containment will be placed into empty waste oil containers and sealed for proper disposal at an approved disposal facility.

Following a spill, all used materials need to be properly washed and/or replaced.

Procedures for Restoring Affected Areas

Once a spill has been contained, community personnel will consult with the Inspector assigned to the file to determine the level of clean-up required. The Inspector may request that a site specific study be conducted, to ensure appropriate clean-up levels are met.

After clean-up has been completed, the community should follow up with the NWT 24-hour Spill Line to ensure that the spill report file has been closed. Closure of the spill file provides evidence that the spill was cleaned up to the regulator's satisfaction. This will help prevent the spill from being considered an environmental liability for the community in the event of a change of ownership, refinancing, or closure of the site. A copy of the spill report marked "Closed" can be provided on request for the community's files. The Spill Line also keeps copies of these reports on file.

2.12 SCP – Resource Inventory

In this section, you will create a **Resource Inventory** by identifying the supplies and equipment available for spill response at each facility.

What earth-moving and other equipment is available in the community for spill cleanup (for any or all facilities)? (Check all that apply, list any additional equipment.)

Loader	Excavator	Backhoe	Bobcat
Bulldozer	Dump truck	Fuel truck	
Shovels or other hand tools			
Other (specify):			

Which facilities have spill kits? (Check all that apply.) Indicate where the spill kit is stored at each facility. Give enough detail for a person to find the spill kit if they don't know where it is. How many litres of spilled oil/fuel are the spill kits designed to contain and collect?

Water Treatment Plant	Location:	Volume:	L
Wastewater Treatment System	Location:	Volume:	L
Solid Waste Facility	Location:	Volume:	L
Bulk Fuel Storage Facility	Location:	Volume:	L

Community Garage

Location:

Volume:

L

Other (specify):

Additional volumes will be accommodated with the use of absorbent products that will be maintained in inventory in sufficient quantities.

What is included in the spill kit for each facility? Check all materials that apply for each facility. (The typical quantity is shown for information only and all kits should have sufficient material for expected spill volumes at each site.)

Item	Typical Quantity	Qty at WTP	Qty at WWTS	Qty at SWF	Qty at Bulk Fuel Storage Facility	Qty at Community Garage	Other (specify):	Other (specify):
Tyvek splash suits	4							
Chemical master gloves	4							
Large bags with ties for temporary use	10							
Oil-only booms (5 in by 10 ft)	2							
Oil-only mats (6 in x 20 in)	50							
Sorbent socks	5							
Sorbent pads	10							
Large tarps	2							
Duct tape (roll)	1							
Utility knife	1							

Field notebook and pencil	1							
Rake	1							
Pick axe	1							
Aluminum scoop shovels	3							
Instruction binder	1							
Copies of the NWT Spill Report form to be completed in the event of a spill	1 or more							

2.13 SCP – Training

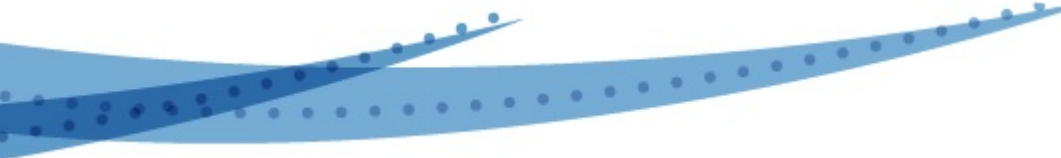
The Department of Environment and Natural Resources schedules a few training sessions each year for spill contingency. Selected members from the community works department can attend these training sessions. Once key personnel have the fundamental information, training sessions will be conducted as a part of the normal operation of the community.

Training will be conducted on an as-needed basis.

Where are training records kept?

For each facility, indicate the training items that are done. (Check all that apply.)

Training	WTP	WWTS	SWF	Bulk Fuel Storage Facility
All individuals working at the facility are required to participate in an orientation session.				
During the orientation, all locations of the Spill Contingency Plan and spill kits are indicated.				
During the orientation, an overview of the Spill Contingency Plan is provided.				



<p>Specific training sessions, including mock spill exercises, are scheduled for individuals directly involved with handling hazardous materials.</p>				
<p>All facility operators are required to have their basic first aid training, as well as WHMIS training, before working on the site.</p>				
<p>A spreadsheet is kept by the Band Manager or Senior Administrative Officer at the Community head office indicating the training undertaken by the facility operator, and expiry dates for specific training.</p>				

Hazardous waste information

Asbestos: Exposed asbestos fibres from construction and demolition debris present a risk to human health. The risks to human health are lowered to safe levels when asbestos is properly packaged according to the conditions set by the Worker Safety and Compensation Commission. Once this has taken place, a hole must be dug in advance of acceptance and the asbestos needs to be buried immediately. The location needs to be documented to prevent future disturbance. Further details can be found in ENR's document *Guideline for the Management of Waste Asbestos* (attached).

Lead-acid batteries are commonly found in vehicles. Both the lead and the acid are contaminants. Batteries in good condition can be stacked on pallets and banded or shrink-wrapped for transportation when enough have been collected to make shipping worthwhile. Store broken batteries in a pail or other container to prevent spills and avoid contact with battery acid. Further details can be found in ENR's document *Guideline for the Management of Waste Batteries* (attached).

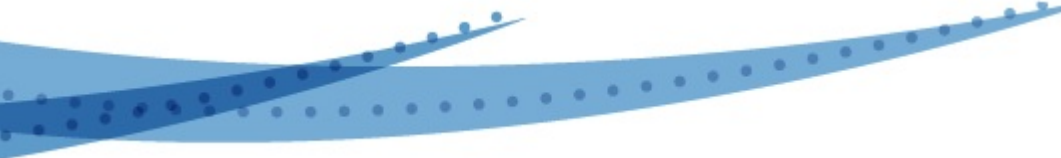
Glycols: Waste antifreeze (Ethylene Glycol) is generated from vehicle maintenance. Propylene glycol is more common to the industrial/commercial sector where it is used for heating larger buildings. Glycols can be stored in pails or drums until the quantity warrants shipping. Further details can be found in ENR's document *Guideline for the Management of Waste Antifreeze* (attached).

Hydrocarbon-contaminated soil, snow, and water that result from spills or contaminated sites are managed as a hazardous waste in the NWT. Hydrocarbons include diesel, heating oil, gasoline, and other petroleum products. Communities wanting to store or treat contaminated soil, snow, or water may need to amend their water licence. Contact ENR for guidance on developing appropriate facilities.

Mercury is a severely toxic contaminant. Disposal needs to be reduced to levels as low as reasonably achievable. Thermostats, thermometers, mercury switches and fluorescent lamps all contain mercury. They can be safely stored in clearly marked pails. Drum-top crushing equipment can be used to remove the mercury from fluorescent bulbs. Other types of mercury-containing lights (i.e. street lamps or high intensity discharge lamps from the industrial/commercial sector) require specialized disposal methods and usually need to be transported to southern receiving facilities. For further information, see ENR's document *Guide to Recycling Mercury-Containing Lamps* (attached).

Oily debris can consist of rags, sorbent material, or containers used to store or clean up oil. These materials are contaminants that cannot be added to a typical soil treatment facility, but need to be kept segregated from other waste.

Ozone depleting substances (ODS), also referred to as halocarbons, are chemicals mainly used in air conditioning and refrigeration equipment. The release of these substances depletes the ozone layer and is prohibited. Refrigerants need to be recovered by a trained technician prior to disposal of items containing refrigerants, including refrigerators, freezers and vehicles. Specific training is required for anyone servicing equipment containing ODSs and halocarbon alternatives. For more information, see ENR's document *Environmental Guideline for Ozone Depleting Substances (ODS's) and Halocarbon Alternatives* (attached).



Paint: Paint can contain a number of hazardous chemicals, including lead. Whenever possible, paint should be used rather than disposed of. If it can't be used, the disposal method depends on the type of paint (check the label). Oil-based paint should be stored in approved 205 litre drums, ready for shipping. Latex paints can be landfilled after they are completely dried out (they can be spread out on a board or sheet to dry). Industrial/commercial paints usually need specialized treatment methods and should not be collected at the community SWF. Check ENR's document *Guideline for the Management of Waste Lead and Lead Paint* (attached) for more information.

Propane tanks and aerosol cans are regulated as a dangerous good and are a potential explosion hazard at all times. Propane tanks can be returned to the retailer or supplier for safe storage and transport. Trained staff can safely evacuate the propane gas, making the tanks safe for scrap metal. Large propane tanks and other compressed gas canisters from the industrial/commercial sector should not be collected at the community SWF.

Residue Fuel Tanks / Heating Oil Tanks / Residue Drums: Fuel storage tanks and drums often contain residue (e.g. sludge at the bottom), or may still contain flammable vapours. Tanks must be properly emptied prior to disposal as scrap metal. Empty drums need to be stored on their sides to prevent water from accumulating.

Used oil can be used as feedstock for a used oil furnace if the testing and other conditions in the *Used Oil and Waste Fuel Management Regulations Plain Language Guide* (attached) are met. Used oil can be stored in clearly labelled good quality tanks or drums. Do not let drums or pails be contaminated with glycol or solvents. Do not accept excessive volumes from the industrial/commercial sector.

Waste Fuel: Residents generate waste fuel from the use of gas-powered equipment and need a local disposal option. Waste fuel from residents can be bulked into UN-approved steel drums at Household Hazardous Waste collection events, or on a daily basis. The decision to accept waste fuel from residents on a daily basis requires appropriate screening methods to screen out incompatible materials from residents and excessive volumes of fuel or solvents from the industrial/commercial/institutional sector.

Vehicles: End-of-life vehicles contain antifreeze, batteries, fuel, mercury switches and other lubricating fluids that are considered hazardous waste and need to be removed. Once the hazardous materials are removed, the rest of the vehicle can be treated as scrap metal. Refrigerants from air conditioning systems will need to be removed by a trained technician.

Immediately Reportable Spill Quantities

TDG Class	Substance for NWT 24 Hour Spill Line	Immediately Reportable Quantities
1	Explosives	Any amount
2.3	Compressed gas (toxic)	
2.4	Compressed gas (corrosive)	
6.2	Infectious substances	
7	Radioactive	
None	Unknown substance	
2.1	Compressed gas (flammable)	Any amount of gas from containers with a capacity greater than 100 L
2.2	Compressed gas (non-corrosive, non-flammable)	
3.1	Flammable liquids	> 100 L
3.2		
3.3		
4.1	Flammable solids	> 25 kg
4.2	Spontaneously combustible solids	
4.3	Water reactant	
5.1	Oxidizing substance	> 50 L or 50 kg
9.1	Miscellaneous products or substances excluding PCB mixtures	
5.2	Organic peroxides	> 1 L or 1 kg
9.2	Environmentally hazardous	
6.1	Poisonous substances	> 5 L or 5 kg
8	Corrosive substances	
9.3	Dangerous wastes	
9.1	PCB mixtures of 5 or more ppm	> 0.5 L or 0.5 kg
None	Other contaminants (e.g., crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)	> 100 L or 100 kg
None	Sour natural gas (i.e., contains H ₂ S), sweet natural gas	Uncontrolled release or sustained flow of 10 min or more

Note: In addition, all releases of harmful substances, regardless of quantity, are to be reported to the NWT spill line if the release is near or into a water body, is near or into a designated sensitive environment or sensitive wildlife habitat, poses imminent threat to human health or safety, poses imminent threat to a listed species at risk or its critical habitat, or is uncontrollable.

Source: AANDC, *Guidelines for Spill Contingency Planning*. April 2007

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

A	Report Date: MM DD YY	Report Time:	<input type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report	Report Number:	
	Occurrence Date: MM DD YY	Occurrence Time:			
C	Land Use Permit Number (if applicable):	Water Licence Number (if applicable):			
D	Geographic Place Name or Distance and Direction from the Named Location:	Region: <input type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean			
E	Latitude: _____ Degrees _____ Minutes _____ Seconds	Longitude: _____ Degrees _____ Minutes _____ Seconds			
F	Responsible Party or Vessel Name:	Responsible Party Address or Office Location:			
G	Any Contractor Involved:	Contractor Address or Office Location:			
H	Product Spilled: <input type="checkbox"/> Potential Spill	Quantity in Litres, Kilograms or Cubic Metres:	U.N. Number:		
I	Spill Source:	Spill Cause:	Area of Contamination in Square Metres:		
J	Factors Affecting Spill or Recovery:	Describe Any Assistance Required:	Hazards to Persons, Property or Environment:		
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials:				
L	Reported to Spill Line by:	Position:	Employer:	Location Calling From:	Telephone:
M	Any Alternate Contact:	Position:	Employer:	Alternate Contact Location:	Alternate Telephone:

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____			Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown		File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed
Agency:		Contact Name:	Contact Name:	Remarks:	
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

The Mackenzie Valley Land and Water Board

www.mvlwb.com

Box 2130
7th Floor - 4922 48th Street
Yellowknife, NT X1A 2P6

Phone: (867) 669-0506

Fax: (867) 873-6610