Former Nanisivik Mine Site

Spill Contingency Plan

May, 2012

Document Control

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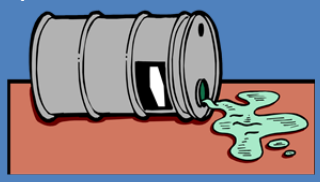
Nanisivik First Responder Flowchart

First Responder **IDENTIFIES** the Spill



If there is danger to human health

1. **EVACUATE** the area

2. **SECURE** the area

3. **NOTIFY** the On-Scene Coordinator

If the spill is not controllable or not safe

1. **SECURE** the area

2. **RETREAT** a safe distance

3. **NOTIFY** the On-Scene Coordinator

If the spill is controllable and safe

1. **NOTIFY** the On-Scene Coordinator

2. **CONTROL / CLEAN-UP** the spill

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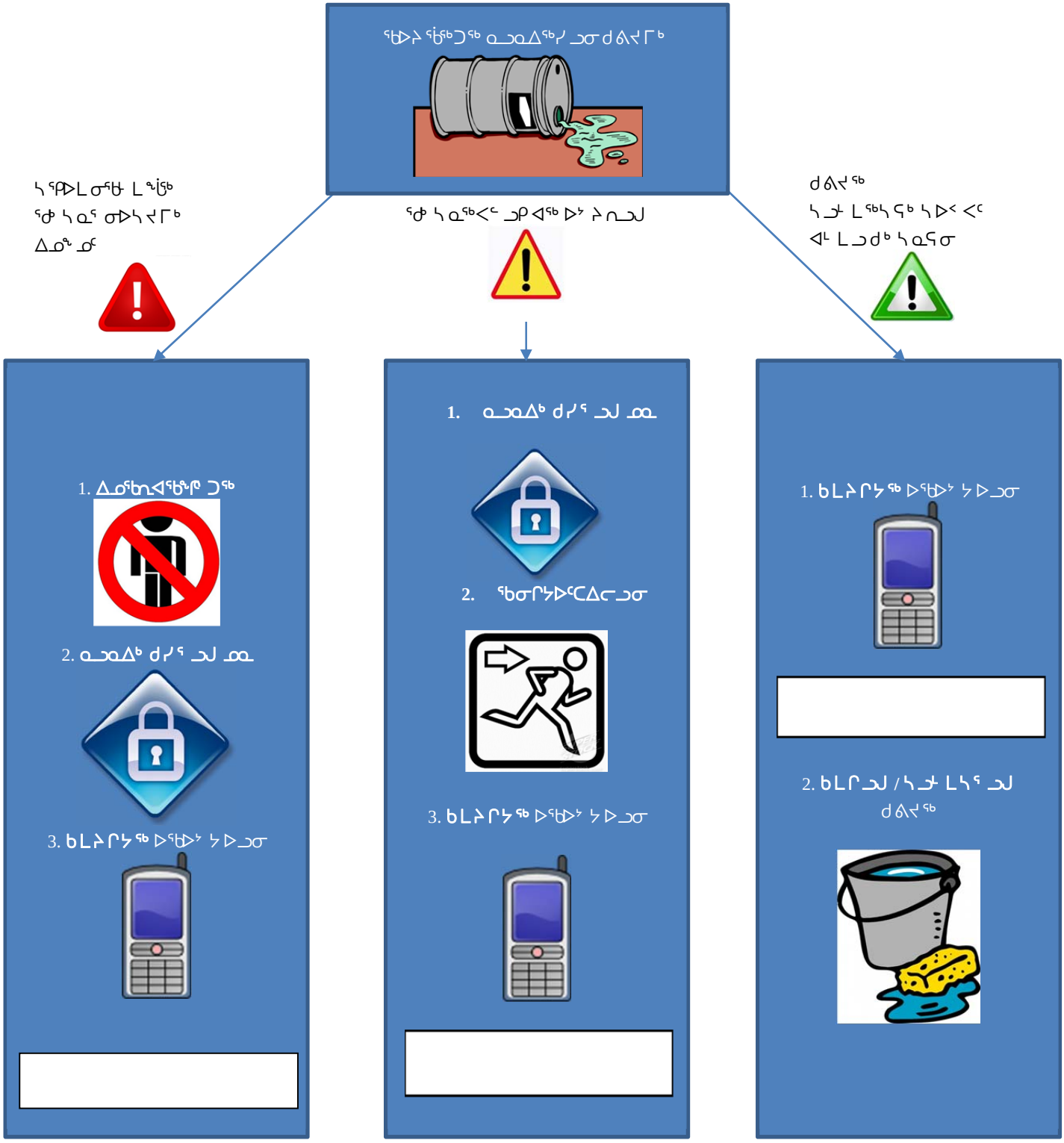

Nanisivik On-Scene Coordinator Flowchart

On-Scene Coordinator is notified of the spill information and takes control

On-Scene Coordinator notifies Contractor to mobilize equipment needed

If the spill can be controlled

If the spill cannot be controlled

Continue containment and clean-up

Compile information

If the spill is in the marine environment

If the spill is on land or surface water

Compile information

Contact Canadian Coast Guard 1-800-265-0237

Contact AANDC 867-975-4295

Report incident to 24 Hour Spill Line at **867-920-8130**

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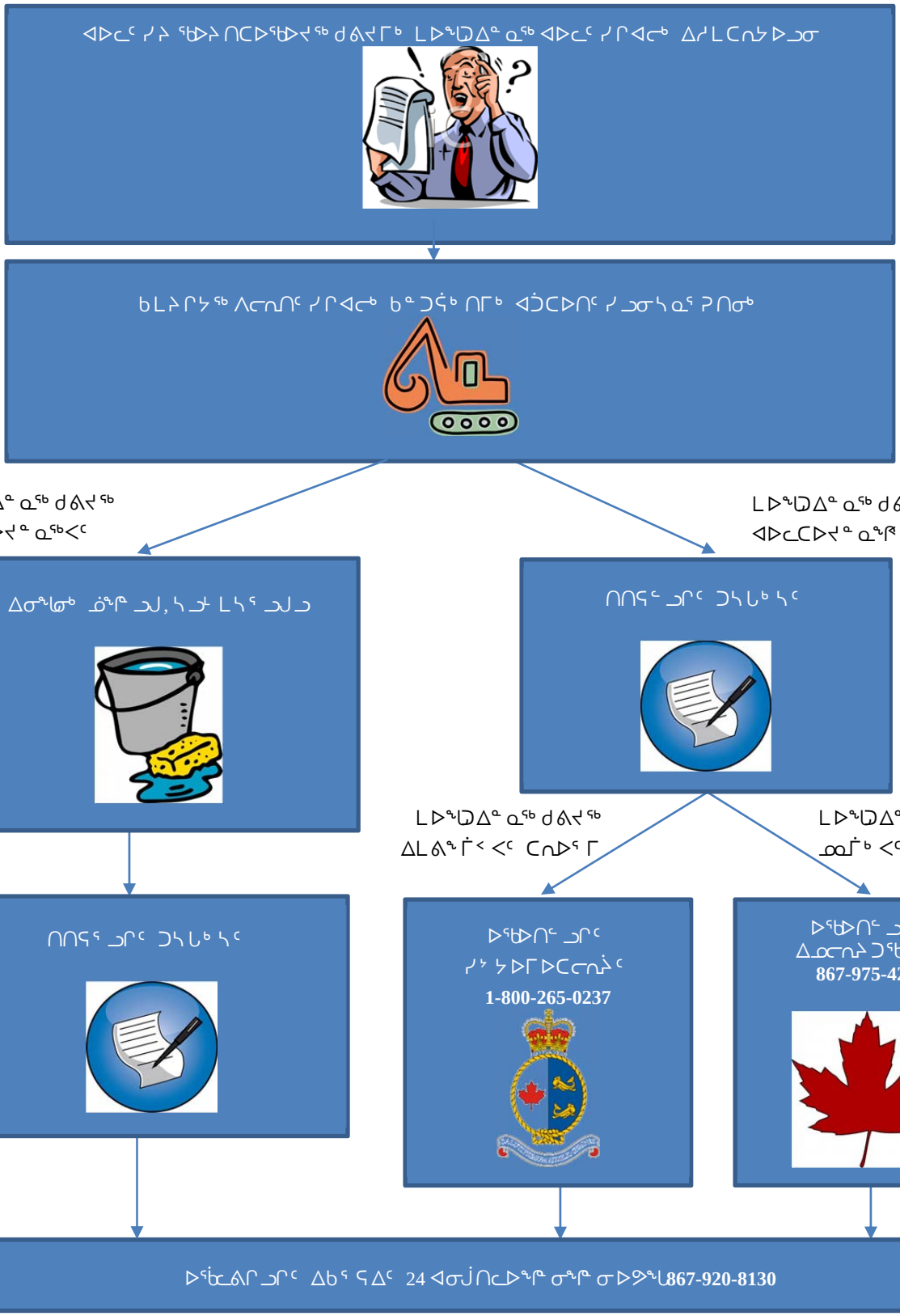

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1 Introduction

1.1 Purpose

Nyrstar has developed this Spill Contingency Plan (SCP) for activities associated with the abandonment and reclamation of the fuel tank farm at the former Nanisivik Mine site. The SCP has been prepared to complement the 2010 *Abandonment and Reclamation Plan, Fuel Tank Farm, Former Nanisivik Mine Site, Nunavut*, prepared by Jacques Whitford Stantec Limited (JWSL) and to satisfy the requirements of Part J, Item 2 (k) of water licence 1AR-NAN0914. This SCP also provides an update to spill contingency measures previously implemented under the Nanisivik Mine 2004 Reclamation and Closure Plan as approved by the Nunavut Water Board on July 6, 2004, or as subsequently revised under the water licence.

The SCP follows the Government of Nunavut's (GN), *Consolidation of Spill Contingency Planning and Reporting Regulations*, 1999, as well as Aboriginal Affairs and Northern Development Canada's (AANDC) *Guidelines for Spill Contingency Planning*, 2007.

1.2 Nyrstar Contact Information

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2840 – 650 West Georgia Street
PO Box #11552. Vancouver, BC
V6B 4N8, Canada

1.3 Nyrstar Environmental Policy

Nyrstar Environment Policy Statement

We are a global leader in mining, metals processing and recycling with operations across multiple cultures and continents. Our metal products meet society's needs worldwide and are inherently recyclable. We are located within communities who have expectations of us, which we must meet.

We operate our businesses in an environmentally responsible way. Our aim is to prevent harm to the environment and the community. We will build trust with our key stakeholders by meeting our commitments and maintaining open and honest communications.

To achieve this, we will:

- Minimise the environmental impact of our operations by applying leading practice, innovation and sound science
- Continually improve our performance through the identification and management of environmental risks and establishment of measurable objectives and targets
- Comply with legal obligations as a minimum and meet the requirements of our voluntary agreements
- Provide material stewardship through efficient and responsible use of resources, minimizing waste and expanding recycling options
- Recognize the environmental impact from past operations and address legacy issues
- Develop a culture of environmental ownership through integration of business goals and by increased awareness, skills and competency of our people
- Engage with our stakeholders, understand and respond to their expectations and effectively communicate our environmental performance

We believe that these commitments provide the foundation for a sustainable business.

nyrstar

Roland Junck - Chief Executive Officer
January 2010

1.4 Project Description

1.4.1 Site Description

The former Nanisivik Mine site is located in the Canadian Arctic on northern Baffin Island, on the south shore of Strathcona Sound, on the Borden Peninsula, at latitude 73°02'N and longitude 84°31'W. The environment around the mine site is typical of the High Arctic region, characterized by extremely cold temperatures, low precipitation, continuous permafrost and largely barren surface soils, which results in the mine area having minimal vegetation coverage and wildlife usage.

The former mine site is located approximately 33 kilometres by road from the Hamlet of Arctic Bay, which is located on the shore of Arctic Bay on the Adams Sound. This community has a population of about 825 people, composed of a majority of Inuit.

Access to the mine site is via scheduled air service from Iqaluit and Resolute Bay to Arctic Bay. The road from Arctic Bay to Nanisivik is open during snow free periods from early June to mid September. Freight is delivered to Nanisivik via ship during the 14-week open water season.

Climatic data was collected at the Nanisivik Airport by Environment Canada from 1976 to 2010. The Nanisivik Airport is located at an elevation of 642 meters above sea level. The following list is a summary of the main climatic parameters based on an analysis undertaken in 1998 (Golder, 1998):

- The mean annual air temperature (MAAT) was estimated to be -15.2°C.
- The mean annual precipitation total was estimated to be 240 mm.
- The 24 hour Probable Maximum Precipitation (PMP) value was estimated to range from 140 to 210 mm.
- The mean annual lake evaporation value, as measured at the Nanisivik site, was approximately 200 mm.

Climate monitoring was discontinued at the Nanisivik Airport in January 2011. The nearest available climate monitoring station is located at Arctic Bay. The Arctic Bay weather station is located approximately 14.3 km west of the fuel tank farm and at an elevation of 31 m. A statistical assessment of the comparable data sets collected at the Nanisivik Airport and Arctic Bay between 2008 and 2010 was undertaken and it was found that the average difference in air temperature was approximately 1.6˚C, with a standard deviation of approximately 4˚C. Arctic Bay generally experienced warmer air temperatures than Nanisivik, as expected. This difference was more pronounced in the months between May and September where it was found that the average difference increased to in excess of 3˚C (BGC, 2012).

Due to the proximity of the Arctic Bay weather station to the ocean and the fact that this weather station is located at a similar elevation to the fuel tank farm, the climate data recorded at Arctic Bay is expected to be accurate for the former fuel tank farm site.

1.4.2 Site Infrastructure and Activities

Infrastructure remaining at the former Nanisivik mine site includes:

- Water conveyance structures including the West Twin dike spillway, West Twin outlet channel and the East Twin Creek diversion berm and channel;
- Thermal covers over the tailings surface cell, test cell, toe of West Twin dike, landfill, West Open Pit waste rock, East Open Pit waste rock, East Trench waste rock, Oceanview Open Pit waste rock, Area 14 waste rock, Upper Dump Pond, and the Industrial Complex foundation;
- Embankments including remnant dikes at East Adit Treatment Facility and remnant berms of the fuel tank farm. The West Twin dike and Test Cell dike have been incorporated into the Surface Cell and Test Cell tailings covers;
- Shale and armour borrow areas;
- Covers over mine openings 00/01 Portals and Crown Pillar, 17 North Portal, Oceanview Portal, K-Baseline Portal, Area 14 Portal, 09 South Portal, Lower Adit, Portal to Mill Foundation, Shale Hill raise, Oceanview East raise, Oceanview West raise, Area 14 Raise;
- Service roads around the former mine site as required for post-closure monitoring;
- Nanisivik wharf structure;
- General laydown pad at the Nanisivik wharf;
- The concrete floor slab of the former concentrate storage shed (a portion of the surficial cover of the remnant concrete pad was removed by the Canadian Coast Guard);
- The Department of National Defence Canada has erected a building on the surface of the cleared concrete pad;
- A garage in the former townsite owned by the Government of Nunavut;
- Two trailers in the former townsite owned by NorthwestTel Inc. and the Environmental Contractor;
- Two satellite dishes and three conjoined trailers at the former STOL airstrip owned by NorthwestTel Inc.;
- The road from Arctic Bay to the future site of the Nanisivik Port and the spur road to the East Twin Lake are owned by the Government of Nunavut; and
- The Canadian Coast Guard and residents of Arctic Bay maintain trailers and sheds at the port.

Infrastructure required for post-closure monitoring and for carrying out the remediation of the remaining petroleum hydrocarbon (PHC) contaminated soil at the former tank farm includes:

- Lined treatment facilities for petroleum hydrocarbon contaminated soil. For more information about the treatment facilities refer to the *Abandonment and Reclamation Plan, Fuel Tank Farm, Former Nanisivik Mine Site, Nunavut* (JWSL, 2010) and the 2011 *Water Licence 1AR-NAN0914 – Annual Report* (Nyrstar, 2012); and
- Trailers and sheds owned by local residents and rented for the monitoring and remediation activities.

Ongoing reclamation, closure and post-closure monitoring activities include:

- Surface water quality monitoring during periods of flow as per Schedule I, Table 2 of water licence 1AR-NAN0914;
- Geotechnical monitoring all year as per Schedule I, Table 3 of water licence 1AR-NAN0914;
- Excavation of PHC contaminated soils in the former fuel tank farm area;
- Construction of PHC contaminated soil treatment facilities (to be completed in 2012);
- Operation of PHC contaminated soil treatment facilities including mechanical soil aeration, nutrient application and soil testing;
- Stockpiling of clean soil for future use; and
- General site maintenance as needed.

1.4.3 Hazardous Materials on Site

Table 1 lists the hazardous materials that will be stored on site. The UREA and DAP will be used to treat the PHC contaminated soil. The hexane gas will be used to calibrate gas monitors. The construction contractor will be providing a mobile fuel truck to refuel the heavy equipment; however a need may arise to keep small quantities of fuel as listed in Table 2 on site between June and September.

Table 1: Hazardous materials to be stored on site

Material and Use	Maximum Amount	Storage Container and Capacity	No. of Containers	Storage Location
Hexane Gas	34 L	17 L cylinder	2	Shed (locked)
Nutrient UREA	4200 kg	11 kg impermeable plastic bags	167 bags	Shed (covered)
Nutrient DAP	700 kg	11 kg impermeable plastic bags	167 bags	Shed (covered)

Table 2: Hazardous materials that may be stored on site

Material and Use	Maximum Amount	Storage Container and Capacity	No. of Containers	Storage Location
Gasoline	200 L	Drum	1	Laydown pad
Diesel	200 L	Drum	1	Laydown pad

Other substances such as lubricating oils, hydraulic fluids, antifreeze, engine coolants and fuel additives will be used on site. The construction contractor will transport these substances to site in a service truck and small quantities (10 L or less) may be stored in a trailer or shed on site between June and September.

Material Safety Data Sheets (MSDS) for the materials listed in the tables above are provided in Appendix A.

1.4.4 Spill Prevention Measures

Spill prevention measures to be employed at site include:

- Operators responsible for the handling of hazardous materials will be trained in spill prevention and control;
- Storage areas for hazardous materials will be clearly signposted ;
- Inventory tracking of hazardous materials will be performed;
- Hazardous materials will be stored on level ground at least thirty (30) meters from the ordinary high water mark of any water body;
- Hazardous material storage areas will be inspected weekly to for evidence of leaks and staining on the ground;
- Equipment maintenance and servicing will be undertaken in designated areas using portable drip pans;
- Transfer or fuels and fuelling of vehicles will be undertaken with appropriately sized hoses and pumps;
- Fuel drums will be stored on the Nanisivik wharf laydown pad and will be provided with secondary containment; and
- Nutrients will be mechanically blended into the PHC contaminated soil within 24 hours of placement to reduce wind dispersion.

1.5 Plan Review

This SCP is a working document. It will be reviewed annually or as required to accommodate any changes to site conditions or work practices. A copy of the SCP will be posted and reviewed with all staff, contractors, and visitors to the project site as part of the site orientation program.

The distribution list for the SCP and future revisions are detailed in Table 3.

Table 3: Spill Contingency Plan Distribution List

Organization	Version	Date
Nunavut Water Board	1	May, 2012
Department of Fisheries and Oceans, Real Property	1	May 2012
Aboriginal Affairs and Northern Development Canada	1	May, 2012
Government of Nunavut, Department of Environment	1	May, 2012
Environmental Contractor - Claude Lavallee	1	May, 2012
Construction Contractor -Arqvartuuq Services Ltd	1	May, 2012
BGC Engineering Inc.	1	May, 2012

WESA Inc.	1	May, 2012
Stantec Consulting Ltd.	1	May, 2012
SRK Consulting (Canada) Inc.	1	May, 2012

Copies of the most recent SCP can be obtained from Nyrstar's Environment Manager, Johan Skoglund, at 604 336 8300 or Johan.skoglund@nyrstar.com.

2 Response Organization

The response team will be comprised of the First Responder and the On-scene Coordinator. See the Flowcharts in Appendix B depicting communication lines and response duties.

The First Responder is the person who first identifies the spill and carries out the initial actions outlined in the First Responder Flowchart included in Appendix B.

The On-scene Coordinator is responsible for ensuring that spill prevention measures are implemented and for reporting of spills as outlined in the On-Scene Coordinator Flowchart in Appendix B. The On-scene Coordinator will be available locally at the time of the spill. Team members designated to fulfil the On-scene Co-ordinator role are listed in Table 4. The On-scene Coordinator will be responsible for notifying the Project Manager and Nyrstar's Environmental Manager.

Table 4: On-Scene Coordinator Options

Team Member	Position	Local Contact #
Claude Lavallee	Environmental Contractor	867-439-8477
Moses Oyukuluk	Construction Contractor, Arqvartuuq Services	867-439-8227
Jos Van Straaten	Site Engineer, WESA	867-439-8005 –c/o Tangmaarvik Inn
Krysta Paudyn	Site Engineer, WESA	867-439-8914 – c/o Tangmaarvik B&B
Arlene Laudrum	Project Manager, SRK	Satellite Phone # TBD

The Project Manager, Arlene Laudrum, is responsible for keeping track of all spills, conducting follow-up investigations and recommending revisions of the SCP to Nyrstar as necessary. The On-scene Coordinator and Project Manager will be supported by Nyrstar's Environmental Manager, Johan Skoglund.

Means of communication will be provided via satellite telephone located in the crew truck or hand held two way radios.

3 Spill Scenarios

Table 5: Spill Scenarios

Material	Potential Spill Scenario	Worst Case Spill Volume	Potential Environmental Impact
Fuel and lubricants	1) Over pumping of fuel from drum or fuel truck to equipment/vehicles. 2) Leaking from drums. 3) Leaking from equipment/vehicles. 4) Hydraulic hose break 5) Overflow of leachate from treatment facility	400 L	Direct negative impact to soil quality. If spill is not cleaned up, potential for negative impact to water quality from runoff. Poor soil and water quality may indirectly affect aquatic life and wildlife feeding from the land and water.
Nutrients	1) Bag breakage. 2) Wind-blown dispersion during treatment facility application.	4200 kg	Nutrients contain phosphorous and nitrogen which can negatively impact soil quality if spilled on land as well as water quality through wind dispersion. If not cleaned up, potential negative impact to water quality may also occur from runoff. Poor soil and water quality may indirectly affect aquatic life and wildlife feeding from the land and water.

4 Action Plan

4.1 Initial Actions

Initial spill response actions are taken by the First Responder. As per the First Responder Flowchart (Appendix B), these actions include:

- Stop work;
- Ensure the safety of yourself and others;
- Assess the potential danger to human health, safety, and controllability of the spill;
- Take appropriate actions to either evacuate, secure, or retreat if necessary;
- Immediately notify the On-scene Coordinator at the number listed in Table 4;

- If safe, control the spill (remove all sources of ignition from fuel spills and use appropriate personal protective equipment); and
- If safe, contain, recover, clean up and dispose of the spilled contaminant.

4.2 Spill Reporting

The following spill events are reportable for regulatory purposes:

- Fuel and lubricant spills over 100 litres as well as any spills of an undetermined amount;
- Spills of nutrients over 1 litre or 1 kg as well as any spills of an undetermined amount; and
- All spills into a water body regardless of the amount.

The spill events described above should be immediately notified to the following agencies:

- Government of Nunavut via the NWT/NU 24 hour Spill Reporting Line **867-920-8130**;
- Aboriginal Affairs and Northern Development Canada (AANDC) Inspector at **867-975-4295**;

The initial notification will include the type and volume of contaminant, the location and approximate size of the spill, the actions already taken to stop and contain the spill and other observations including the presence of wildlife and weather conditions.

Following initial notification, the following reporting must be completed:

- Complete the NWT/NU Spill Report Form contained in Appendix C of this SCP and fax or email the completed form to the NWT/NU 24 hour Spill Reporting Line at 867-873-6924 or spills@gov.nt.ca within 24 hours;
- Submit a detailed report to the AANDC Inspector within thirty (30) days after reporting the spill including the following:
    - Reference spill report number;
    - Summary of information provided during initial reporting;
    - The final estimated amount and type of spilled product;
    - GPS location of the spill; and
    - Measures taken to contain, clean-up and restore the spill site.

For spills that do not meet the criteria for regulatory reporting, the NWT/NU Spill Report Form contained in Appendix C of this SCP should be completed and kept on file.

4.3 Containing, Controlling and Cleaning-up a Spill

A photographic record of any spills and all associated clean up measures will be maintained.

4.3.1 Fuel Spill on Land

Fuel spills on land (gravel, rock, soil, vegetation) shall be handled using the following measures:

- Construct temporary berms or trenches to prevent spill migration;
- Block entry to water bodies;
- Recover the spill as soon as possible using absorbents, shovels, buckets, excavator, and pumps;
- Dispose and treat contaminated soil in the treatment facility;
- Dispose of used absorbents in a drum for temporary storage and final disposal off site at an approved facility;
- Recovered fluids will be temporarily stored in tanks and applied to the treatment facilities;
- If the spill is due to a punctured drum, recover and properly contain any un-spilled fuel for future use, and dispose of used drums off site at an approved facility;
- Wash equipment used to clean up the spill and dispose of washwater in the treatment facility; and
- Once clean-up of the spill has been achieved, re-grade temporary berms and trenches.

In addition, if the spill occurs near water:

- Contain the spill as close as possible to the release point;
- Construct temporary berms or trenches downslope of the spill;

4.3.2 Fuel Spill on Water

Fuel spills on water shall be handled used the following measures:

- Contain the spill immediately and as close as possible to the release point;
- Concentrate floating product using containment booms by encircling the spill with the booms taking into account the effect of wind and waves;
- Once booms are secured, use absorbent mats, pumps, and similar materials to capture spilled material;
- If diesel enters a stream, intercept in calm areas using absorbent booms. Avoid use of absorbent booms or pads in fast currents or turbulent water; and
- Use absorbent mats and similar materials to capture small spills and oily residue on water.

4.3.3 Fuel Spill on Snow or Ice

Fuel spills on snow or ice shall be handled using the following measures:

- Construct berms and ditches from compacted snow and ice to contain the spill;
- Block entry to water;
- Recover the spill as soon as possible. Locate the low point of the spill area and create channels in the snow/ice to allow free product to flow towards the low point, directing channels away from water bodies. Collect spilled material in barrels or tanks;
- Dispose and treat contaminated snow and ice in the treatment facility;

- If the spill is due to a punctured drum, recover and properly contain any un-spilled fuel for future use, and dispose of damaged drums off site at an approved facility; and
- Wash equipment used to clean up the spill and dispose of washwater in the treatment facility.

4.3.4 Nutrient Spill

General procedures for handling a nutrient spill are as follows:

- Prevent contact of spilled nutrient with water;
- If the spill is due to a punctured bag, recover and properly contain any un-spilled nutrient for future use, and dispose of used bags in an approved landfill;
- Plastic sheeting can be used to prevent nutrient wind dispersal;
- Dispose of any contaminated soil in the treatment facility;
- Spread any contaminated snow and ice evenly across the treatment facility; and
- Wash equipment used to clean up the spill and dispose of washwater in the treatment facility.

5 Resources

Three (3) spill kits will be located at the project site with a sorbent capacity of 74 gallons. The locations of the spill kits are shown on Figure 1. Each spill kit contains:

- 10 pairs of nitrile gloves
- 2 Splash protection goggles
- 2 half mask dust respirators and cartridges
- 2 disposable coveralls
- 1 Petroleum Sorbent Roll, High Capacity
- 2 mini-booms (each 3” x 8’) - sorb 2 gallons each
- 1 small shovel
- 3 Polyethylene disposable bags
- One Spill Contingency Plan
- One laminated list of contents

Additional on-site equipment that may be utilised in case of spills includes:

- Excavator
- Loaders
- Haul Trucks
- Dozer
- Crew trucks
- First aid station
- Shovels, water pump, barrels
- Three (3) 1130 L (250 gallon) plastic water tanks

Figure 1: Location of Spill Response Equipment and infrastructure

Table 6 provides a list of contractors and government agencies can be contacted in the event of a spill if additional off-site resources are required.

Table 6: Additional Resource Contacts

Contact	Phone Number
AANDC Manager Field Operations, Iqaluit, NU	867-975-4295
AANDC Manager Water Resources, Iqaluit, NU	867-975-4550
AANDC Manager Land Administration, Iqaluit, NU	867-975-4280
AANDC Manager Environment, Iqaluit, NU	867-975-4549
Environment Canada, Environmental Protection Branch, Environment Officer, Iqaluit, NU	867-975-4644

Fisheries and Oceans Canada, Canadian Coast Guard, Environmental Response	1-800-265-0237
Fisheries and Oceans Canada, Real Property, Safety and Security, Ottawa, ON (Andrew Anderson)	613-990-8886
Workers' Safety and Compensation Commission, Iqaluit, NU	877-404-4407
RCMP, Arctic Bay, NU	867-439-1111
Health Centre, Arctic Bay, NU	867-439-8816
First Air, Arctic Bay, NU	867-439-3000
WESA Inc., Ottawa, ON (Sam Voore)	613-839-3053 x240
WESA Inc., Kingston, ON (Jos Van Straaten)	613-531-2725 x233
SRK Consulting, Yellowknife, NT (Arlene Laudrum)	867-766-6332 867-445-3656

6 Training

All on-site workers will receive training from WESA and/or SRK in the implementation of the spill prevention measures and spill response procedures contained in this SCP. On-site workers will be briefed on the location of the spill kits and their proper use. The flowcharts in Appendix B will be posted in prominent locations for ease of reference and instructions will be provided for the use of the satellite phone for First Responders to notify the On-Scene Coordinator in the event of a spill.

7 References

BGC Engineering Inc. 2011. *2011 Annual Geotechnical Inspection, Nanisivik Mine, Nunavut*. Report No. 0255-021-03. Submitted to Nyrstar, March 1, 2012.

Golder Associates 1998. *1998 Geotechnical Inspection of Waste Containment Dykes, Nanisivik Mine, Baffin Island, N.W.T*. Report No. 982-2432.5100. Submitted to Nanisivik Mine, a division of CanZinco Ltd, October 1998, 27 pages plus Drawings.

Jacques Whitford Stantec Limited for Breakwater Resources Ltd., *Abandonment and Reclamation Plan, Fuel Tank Farm, Former Nanisivik Mine Site, Nunavut*, January 8, 2010.

Nunavut Water Board, 2010. *Approval - Abandonment and Reclamation Plan, Fuel Tank Farm, Former Nanisivik Mine Site, Nunavut, Type "A" Water Licence 1AR-NAN0914, Part J, Item 2*. April 26, 2010.

Nunavut Water Board, *Reasons for Decision Including Record of Proceedings for 1AR-NAN0914*, March 31, 2009.

Nunavut Water Board, *Water Licence No. 1AR-NAN0914*, Date of Issuance: April 1, 2009.

Nyrstar, 2012. Letter report including appendices from J. Skoglund, Nyrstar, to P. Beaulieu, Nunavut Water Board, Re: *Water Licence 1AR-NAN0914 – Annual Report*, dated March 24, 2012.

Spill Contingency Planning and Reporting Regulations, N.W.T. Reg. (Nu.) 068-93.
Source: http://www.canlii.org/en/nu/laws/regu/nwt-reg-nu-068-93/latest/nwt-reg-nu-068-93.html

Water Resources Division, Indian and Northern Affairs Canada, Yellowknife, *Guidelines for Spill Contingency Planning*, 2007.
Source: http://www.ainc-inac.gc.ca/ai/scr/nt/ntr/pubs/SCP-eng.asp

APPENDIX A – MATERIAL SAFETY DATA SHEETS

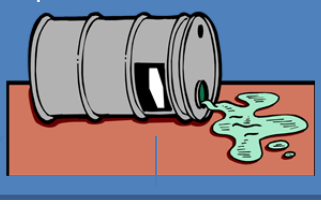
Material Safety Data Sheets (MSDS) for the following materials will be inserted into the plan upon implementation at site:

- Hexane Gas
- Diesel Fuel
- Gasoline
- Nutrient UREA
- Nutrient DAP
- Diesel Engine Oil 10W30
- Diesel Engine Oil 15W40
- Ethylene Glycol
- Crankcase Oil Heavy Duty 10W
- Transmission Oil
- Gear Lubricant 75W90
- Lubricating Grease
- Hydraulic Oil

APPENDIX B – RESPONSE FLOW CHARTS

First Responder Flowchart

First Responder **IDENTIFIES** the Spill



If there is danger to human health

1. **EVACUATE** the area

2. **SECURE** the area

3. **NOTIFY** the On-Scene Coordinator

If the spill is not controllable or not safe

1. **SECURE** the area

2. **RETREAT** a safe distance

3. **NOTIFY** the On-Scene Coordinator

If the spill is controllable and safe

1. **NOTIFY** the On-Scene Coordinator

2. **CONTROL / CLEAN-UP** the spill

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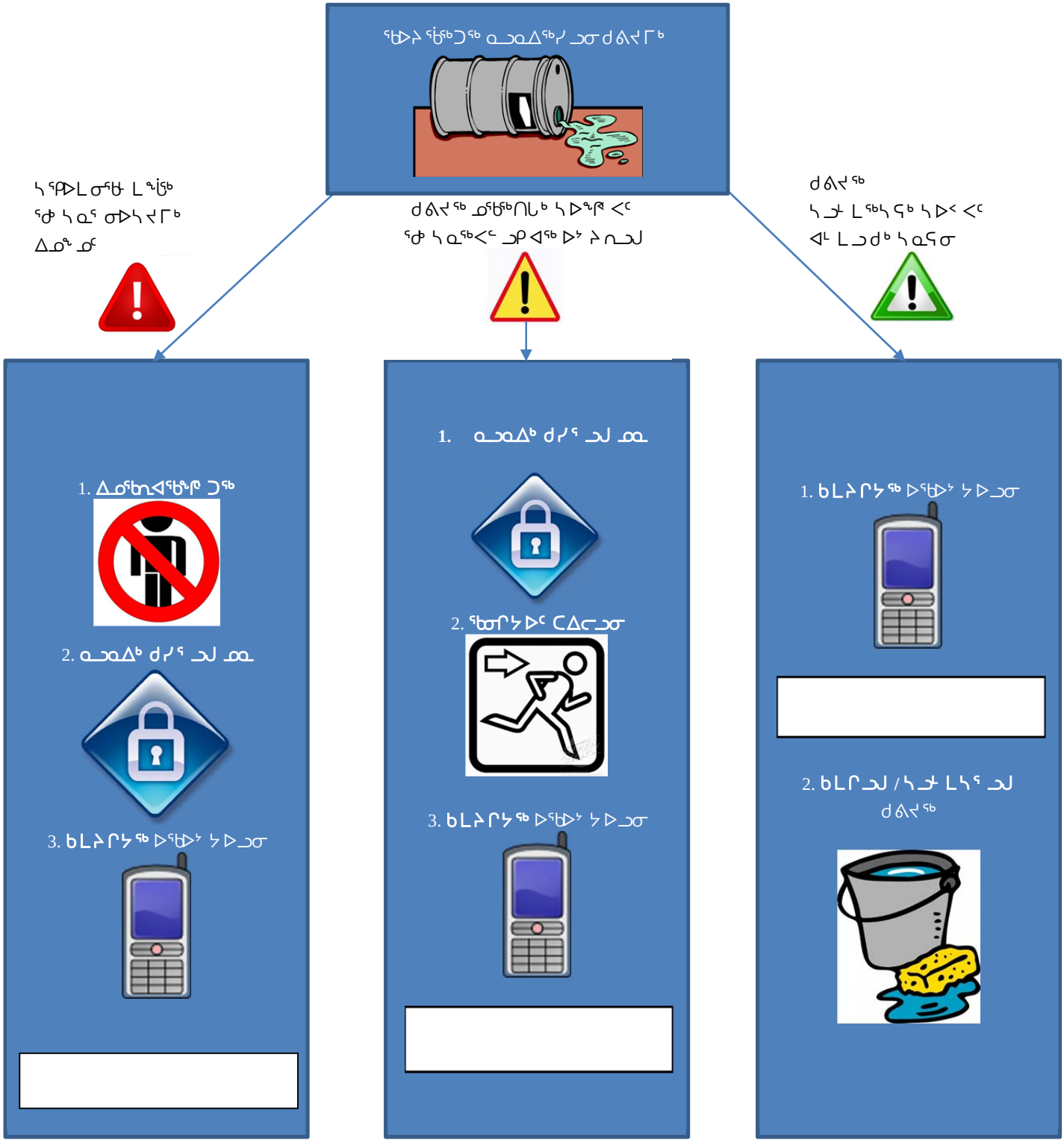

On-Scene Coordinator Flowchart

On-Scene Coordinator is notified of the spill information and takes control

On-Scene Coordinator notifies Contractor to mobilize equipment needed

If the spill can be controlled

If the spill cannot be controlled

Continue containment and clean-up

Compile information

Compile information

If the spill is in the marine environment

If the spill is on land or surface water

Contact Canadian Coast Guard 1-800-265-0237

Contact AANDC 867-975-4295

Report incident to 24 Hour Spill Line at **867-920-8130**

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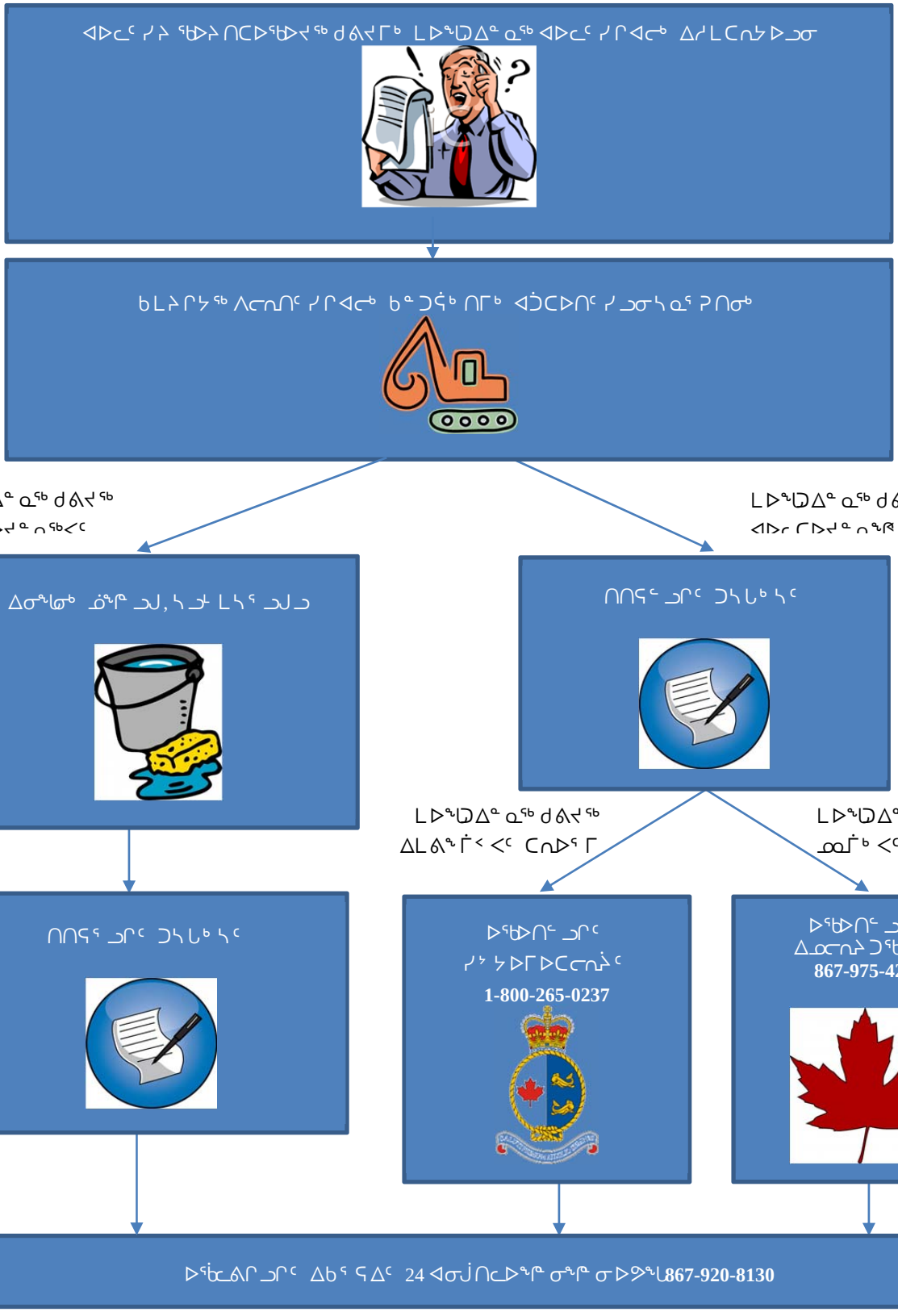

APPENDIX C – SPILL REPORT FORM

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

A	REPORT DATE: MONTH – DAY – YEAR	REPORT TIME	☐ ORIGINAL SPILL REPORT, OR ☐ UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER ____-_____
B	OCCURRENCE DATE: MONTH – DAY – YEAR	OCCURRENCE TIME		

C	LAND USE PERMIT NUMBER (IF APPLICABLE)	WATER LICENCE NUMBER (IF APPLICABLE)
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION	REGION ☐ NWT ☐ NUNAVUT ☐ 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	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 STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130

LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC

SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN

FILE STATUS ☐ OPEN ☐ CLOSED

AGENCY	CONTACT NAME	CONTACT TIME	REMARKS
LEAD AGENCY			
FIRST SUPPORT AGENCY			
SECOND SUPPORT AGENCY			
THIRD SUPPORT AGENCY			