

Spill Contingency Plan Geotechnical Assessment – Fort Simpson, NT Air Tanker Base Resurfacing Project



PRESENTED TO
**Government of the Northwest Territories
Department of Infrastructure**

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The following signatures indicate that the undersigned have read and agreed to the contents of this document, and that they approve and accept its distribution and use.

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ACRONYMS & ABBREVIATIONS

Acronyms/Abbreviations	Definition
Enviro-Tech	Enviro-Tech Drilling Solutions
GNWT-IFR	Government of the Northwest Territories – Department of Infrastructure
SCP	Spill Contingency Plan
Tetra Tech	Tetra Tech Canada Inc

LIMITATIONS OF REPORT

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1.0 INTRODUCTION

Tetra Tech has been retained by the Government of the Northwest Territories, Department of Infrastructure (GNWT-INF) to conduct a Geotechnical Assessment for the Fort Simpson Air Tanker Base Resurfacing Project (Appendix A).

The purpose of the Spill Contingency Plan (SCP) is to provide a guide to site personnel in the event of an accidental release of fuel or other hazardous material during the Project. The SCP provides the protocols for personnel to follow in response to a spill. All persons involved with the Project should read and be familiar with the SCP. To be effective, it is important that all personnel are familiar with their responsibilities and steps to take in the event of a spill.

The objectives of the SCP are to minimize potential effects from potential Project fuel spills on the environment, the health and safety of employees, and the community of Fort Simpson, and to comply with all applicable legislation, regulations, authorizations, permits and licences for the duration of the Project.

The SCP will be posted at the Project site and will be provided to the geotechnical drilling crew.

1.1 Company Name, Contact, and Effective Date

The Government of the Northwest Territories, Department of Infrastructure (GNWT-INF) is the Proponent for this proposed Project. Key contact information for this Project is as follows:

Cesar Concepcion
South Slave Regional Manager, Projects
9706 – 100 Street, P.O. Box 86
Fort Simpson, NT X0E 0N0
Phone: 867-872-8354
Email: cesar_concepcion@gov.nt.ca

The information presented herein is current as of October 2024.

2.0 PROJECT DESCRIPTION

Tetra Tech understands that the apron surface at the air tanker base needs to be repaired. In order to determine the best options for repairing the apron, a geotechnical investigation is required to determine the soil conditions and potential presence of permafrost beneath the apron. Once the subsurface conditions are known, a report with options for potential repair options along with Class C cost estimates can be provided.

Tetra Tech proposes to use Enviro-Tech Drilling Solutions (Enviro-Tech) out of Yellowknife to complete the drilling using a track-mounted drilling rig (Appendix B). Four boreholes are planned, two to a depth of 10 m and two to 6 m to determine subsurface conditions beneath the apron. Tetra Tech will meet with airport officials to verify any buried utilities in the drilling area, and to confirm onsite working and communication protocols.

Boreholes will be drilled at the identified locations to the specified depths, or to refusal if encountered. The soils and ground ice encountered will be visually logged at the time of drilling in accordance with ASTM D2488, D4083-89 and the Guide to Field Description of Permafrost for Engineering Purposes (NRC 1963).

Samples will be collected at 1.5 m intervals, or at changes in stratigraphy, where warranted. A photographic log of the site investigation including photographs of the drill equipment and representative disturbed samples will be taken.

The boreholes will be backfilled with cuttings and/or gravel at completion. Borehole locations and elevations will be recorded with a handheld GPS device. The geotechnical drilling is expected to take place over two days. The details of the site investigation may be modified to suit site conditions.

Before mobilizing to the site, Tetra Tech will develop a project-specific safety plan, in consultation with the drilling contractor so that the safety features and any potential hazards of the equipment being used on the project are included in the Plan. The project will also have a community engagement plan, spill contingency plan and a waste management plan, all of which will be submitted to the MVLWB public registry for review and comment.

3.0 POTENTIAL CONTAMINANTS (HAZARDOUS MATERIALS)

The only potential contaminant that could be spilled during the geotechnical drilling program would be as a result of a diesel fuel leak from the 100-litre capacity built-in fuel tank of the track mounted auger drill. No on-site refuelling will be required for this geotechnical drilling program. A Safety Data Sheet for diesel is provided in Appendix C.

4.0 POTENTIAL SPILL SIZES AND IMPACTS

Given the nature of the Project, it is most unlikely that a major spill could occur on site. All equipment fuel will be stored in the drilling equipment's fuel tank. More likely if a spill incident was to occur, it would be of a small, chronic leak nature (<1 L).

The potential Impacts of a spill are dependent on the location of the spill, and whether or not the contaminant enters a body of water. Spills that enter a body of water typically have a greater potential for risk of impact. However, all proposed geotechnical drill sites will be located within the boundaries of the Fort Simpson Air Tanker Base Resurfacing Project and this site is located approximately 0.82 km (820m) from the Liard River. Although it is unlikely that a fuel spill will occur, any such spill would be immediately contained and recovered as described in Section 8.0 of this Plan.

5.0 POTENTIALLY IMPACTED COMMUNITIES

Potentially impacted parties could include airport personnel and community members of Fort Simpson.

6.0 TRADITIONAL AND OTHER LAND USES

The geotechnical investigations will be conducted at the apron of the air tanker base, located within the boundaries of Fort Simpson Airport, which is owned by the Federal Government and operated by the GNWT. The Fort Simpson Airport is also subject to conformance with the federal Fort Simpson Airport Zoning Regulations (Canada 2024). This airport is located approximately 13.7 km from the community of Fort Simpson. Impacts to traditional land uses and other land uses are therefore not anticipated to result from this Project.

7.0 RESPONSE ORGANIZATION

All spills are to be initially reported by the onsite Tetra Tech engineer to Cesar Concepcion, South Slave Regional Manager, Projects-INF. Mr. Concepcion will also be the main contact for any media or public enquiries (Phone: 867-872-8354; Email: cesar_concepcion@gov.nt.ca)

If a spill on site meets or exceeds the minimum reportable thresholds (Table 1), or is thought to exceed the minimum reportable thresholds, the spill will be reported to the NWT-NU 24-Hour Spill Report Line. All spills of fuel or hazardous materials into a water body or onto ice will be immediately reported to the 24-Hour Spill Report Line.

24-Hour Spill Report Line:

Phone: 867.920.8130

Fax: 867.873.6924

Email: spills@gov.nt.ca

The NT-NU Spill Form (provided in Appendix D) will be completed for each reportable spill and transmitted by email as required.

The report will be completed in accordance with the Consolidation of Spill Contingency Planning and Reporting Regulations, and contain the following information:

- Date and time of spill;
- Type of contaminant spilled and quantity;
- Location of spill;
- Direction spill is moving;
- Name and phone number of a contact person close to the location of the spill;
- Cause of spill;
- Whether spill is continuing or has stopped;
- Description of existing contaminant;
- Action taken to contain, recover, clean up, and dispose of spilled contaminant;
- Name, address and phone number of person reporting the spill; and
- Name of person in charge of the management and control of contaminants at the time of the spill.

Table 1: External Reporting Volumes

TDGA Class	Description of Contaminant	Amount Spilled
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)	Any amount of gas from containers with a capacity greater than 100 L
2.3	Compressed gas (toxic)	Any amount
2.4	Compressed gas (corrosive)	Any amount
3.1, 3.2, 3.3	Flammable liquid	100 L
4.1	Flammable solid	25 kilogram (kg)
4.2	Spontaneously combustible solids	25 kg
4.3	Water reactant solids	25 kg
5.1	Oxidizing substances	50 L or 50 kg
5.2	Organic Peroxides	1 L or 1 kg
7	Radioactive	Any amount
8	Corrosive substances	5 L or 5 kg
9.1 (in part)	Miscellaneous products or substances,	50 L or 50 kg
9.1 (in part)	PCB mixtures of five or more parts per million	0.5 L or 0.5 kg
None	Other contaminants	100 L or 100 kg

Source: INAC 2007

Table 2 outlines other resources that can be contacted in Fort Simpson if outside assistance is required.

Table 2: Contact Information

Company	Name	Phone Number
NWT-NU 24-Hour Spill Report Line		(867) 920-8130
Project Contact	Cesar Concepcion	(867)-872-8354
Fort Simpson Airport	General Enquiries	(867) 695-2471
Fort Simpson Village	General Enquiries	(867)695-2253.
P.R. Contracting	General Enquiries	(867) 695-2601
Fort Simpson Volunteer Fire and Ambulance	General Enquiries	(867) 695-2222
RCMP – Fort Simpson	Emergency Line	(867) 695-1111
Mackenzie Valley Land and Water Board	General Enquiries	(867) 669-0506

8.0 ACTION PLAN

8.1 Initial Actions

The following actions should be taken by the first person(s) who identifies a spill:

1. Be alert and consider your safety and the safety of others around you.
2. If possible, identify the spilled contaminant.
3. Assess the hazard to persons in the area of the spill.
4. If possible, without further assistance, control any danger to human life or the environment.
5. Assess whether the spill can be readily stopped or brought under control.
6. If safe to do so, and if possible, try to stop the spillage of contaminants.
7. Gather information about the status of the situation.
8. Report the spill immediately to Chika Wosu at Phone: 867-695-7654 Cell: (867) 695-1775
9. Following receipt of information from the onsite Tetra Tech Engineer, the GNWT-INF (Cesar Concepcion) will report the spill to the 24-Hour Emergency Spill Report Line: **(867) 920-8130**. Receive instructions on the preferred collection, disposal (e.g., storage in sealed container(s), deposition in a designated lined containment area), and remediation method from the appropriate contact agencies listed in Table 2.
10. Resume any effective action to contain, clean up or stop the flow of spilled contaminant.

8.2 Fuel Spills on Land

1. Refer to Section 8.1 (above) for initial actions that should be taken by the first person(s) who identifies a spill.
2. First responder or his designate will obtain plastic tarp(s), absorbent sheeting, Multi Sorb or other ultra-dry absorbent.
3. If the spill is small, deploy hydrophobic (water repellent) absorbent pads on spill site. Hydrophobic pads readily absorb hydrocarbons. Alternatively, an ultra-dry absorbent may be deployed.
4. A berm of peat, native soil or snow will be constructed down slope of the seepage or spill if possible.
5. The tarp will be placed in such a way that the fuel can pool for collection and removal (e.g., at the foot of the berm). If there is a large volume of spilled product, pump the liquid into refuge containers, and dispose of product as advised by the NWT 24-Hour Spill Report Line.
6. Saturated material will be disposed of in a refuge container, which is then labeled and sealed. Alternatively, the pads may be wrung out into the refuge container(s) and the containers marked and then secured for eventual disposal at a facility off site that accepts hazardous wastes. Contaminated soil or other vegetation may be excavated and hauled off site for disposal / remediation in a facility equipped for handling hazardous wastes.

8.3 Fuel Spills on Snow and Ice

1. If not already done so, refer to Section 8.1 for initial actions that should be taken by the first person(s) who identifies a spill.
2. Assess the nature of the spill. Necessary equipment might include shovels, plastic tarp(s), and refuge containers.
3. Construct a compacted-snow berm around the edge of the spill area.
4. Shovel or scrape contaminated snow and deposit in empty refuge containers.
5. If the spill is more extensive, install compacted snow berms with plastic over top, around the affected area. Although hard ice will retard or prevent fuel entry to the receiving waters below, all contaminated snow and ice, as well as objects embedded in the ice (such as gravel or frozen absorbent pads) must be scraped from the ice surface and disposed of in refuge container, which is then labeled and sealed. Wastes may be transferred in a secure container to a facility equipped for handling hazardous wastes.

9.0 SPILL RESPONSE EQUIPMENT

9.1 SPILL KITS

9.1.1 SPILL KIT LOCATION

A spill kit will be required to be on-site during the implantation of the geotechnical drilling program. The contractor will be responsible for ensuring that a spill kit will be available for use if required and will be located at the worksite

9.1.2 SPILL KIT CONTENTS

The following outlines the recommended minimum requirements for contents of a spill kit to be used during the Project. The spill kit will contain the following, at a minimum (in part from INAC 2007):

- One – 205 L open top steel drum with lid, bolting ring and gasket (spill kit container)
- Ten disposable large 5 mil polyethylene bags (dimensions 65 cm x 100 cm) with ties
- Four 12.5 cm x 3 m (5 in. X 10 ft.) sorbent booms
- 10 kg bag of sorbent particulate
- 100 sheets (1 bail) of 50 cm x 50 cm sorbent sheets
- Two large (5 m x 5 m) plastic tarps
- One roll duct tape
- One utility knife
- One field notebook and pencil

- One rake
- One pick-axe
- Three spark-proof shovels
- Four Tyvex® splash suits
- Four pairs chemical resistant gloves
- Four pairs of splash protective goggles
- Instruction binder, including Spill Contingency Plan.

The entire spill kit contents, with the exception of the spark-proof shovels, can be stored within a 205 L steel drum. The drum will be sealed securely to protect the spill kit contents, though should always be accessible without the use of tools (i.e., finger tight bolt ring). The drum's bolt ring should be inspected regularly during inspections to ensure it turns freely and is lubricated.

Additional spill response materials may also be available for use from the settlement, in addition to the spill kit contents.

10.0 PROCEDURES FOR CLEAN-UP AND RESTORATION OF AFFECTED AREAS

Typically, following a spill on a construction site, the following procedures are implemented.

- During clean-up, workers to be protected by wearing protective clothing, which may include rubber boots and chemical-resistant gloves.
- Collect all pads or other materials used for spill absorption and transfer to a labelled refuse container separated from other waste. Waste to be transferred to an approved facility that accepts hazardous wastes.
- Waste materials of different types are not to be mixed (e.g., sorbent pads and contaminated soil/snow to be stored separately).
- Spill area is to be reviewed for any sign of further contamination. In large spills, this may require the input from an environmental specialist to verify the clean-up of the site is satisfactory.

REFERENCES

- Canada. 2024. Fort Simpson Airport Zoning Regulations. Published by the Minister of Justice at the following address: <http://laws-lois.justice.gc.ca>
- Indian and Northern Affairs Canada (INAC). 2007. Guidelines for Spill Contingency Planning. Water Resources Division, INAC, Yellowknife, NT Available online: <http://www.aadnc-aandc.gc.ca/eng/1100100024236/1100100024253>
- NRC (National Research Council). 1963. Guide to a field description of permafrost for engineering purposes. Technical Memorandum (National Research Council of Canada. Division of Building Research); No. DBR-TM-79, 1962-10-26 A. Available online: <https://doi.org/10.4224/40003252>

APPENDIX A

SITE OF PROPOSED GEOTECHNICAL EVALUATION OF FORT SIMPSON AIR TANKER BASE RESURFACING PROJECT



LEGEND

- Project Boundary Corner
- Project Boundary

NOTES
Base data source:
Imagery from Google Earth; Airbus (2023)

Corner	Latitude	Longitude
1	61.762645	-121.232386
2	61.762413	-121.232628
3	61.762743	-121.234076
4	61.763235	-121.233633
5	61.763416	-121.232874

STATUS
ISSUED FOR REVIEW

Scale: 1:2,025

40 20 0 40

Metres

PROJECTION
UTM Zone 10

DATUM
NAD83

FILE NO.
YARC03667-01_Fig01_SiteLocation.mxd

CLIENT

GEOTECHNICAL ASSESSMENT FOR THE
FORT SIMPSON AIR TANKER BASE
RESURFACING PROJECT

Project Location

OFFICE TL-VANC	DWN SL	CKD BB	APVD RH	REV 0
DATE October 1, 2024	PROJECT NO. ENG.YARC03667-01			

Figure 1

APPENDIX B

D -50 AUGER BROCHURE



5 Fisher Street
LaPorte, Indiana 46350
E-mail: info@diedrichdrill.com

Phone: 800-348-8809
Local: 219-326-7788
Fax: 219-324-5962

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D-50 DRILL SPECIFICATIONS

Performance ratings are based on engineering specifications, calculations and accepted industry standards. Capacities may vary according to drilling conditions. Diedrich Drill reserves the right to amend these specifications at any time, without notice.

GENERAL	<p>All purpose drill rig for soil and rock explorations using augers, rotary tools, or core drilling tools.</p> <p>Rated from 125 ft.(38m) to 250 ft.(76m) depth with hollow stem or continuous flight augers up to 14"(356mm) hole size.</p> <p>Rated to 1000 linear feet(305m) of core drilling using N series tools.</p>
FRAME AND BASE	The drill frame is a weldment, constructed of heavy wall rectangular steel tubing, with sufficient strength and rigidity for heavy duty use.
POWER UNIT	The basic D-50 Magnum unit is powered by a 4-cylinder diesel or a 4 cylinder turbo charged diesel engine.* Electric starting and engine instruments are standard. *Other engine options are available
CLUTCH AND TRANSMISSION	<p>Clutch - 13 inch(330mm) automotive type. (60HP gas engine uses 11 inch(279mm) clutch)</p> <p>Transmission - Heavy duty helical gear transmission with 4-forward and 1-reverse gears.</p> <p>Optional cathead is driven by a power-take-off providing 1 speed forward and 1 reverse.</p>
RIGHT ANGLE DRIVE	The right angle drive is a heavy-duty gearbox, totally enclosed, and running in oil
ROTARY BOX	The rotary box consists of a 80# triple-stranded roller chain drive, totally enclosed, and running in oil. The quill and spindle are supported on tapered roller bearings. The lower bearings run submerged in oil. The upper bearings are externally greased.
SPECIFICATIONS	<p>Spindle Bore.....3-1/2"(89mm)</p> <p>Spindle Travel.....70"(1778mm)</p> <p>Thrust.....up 22,581 lbs (100kN) @2300psi</p> <p style="text-align: right;">down 14,453 lbs (64kN) @2300psi</p> <p>Max Feed Rate.....up FPM 49 (15m/min)</p> <p style="text-align: right;">up Rapid Retract option FPM 70</p> <p>(21m/min)</p> <p style="text-align: right;">down FPM 76 (23m/min)</p> <p>Max gross spindle torque*...1st gear</p> <p style="text-align: right;">up to 9,012ft.lbs (12,218Nm)</p> <p>Max spindle speed*.....1st gear, 95 RPM</p>

		4th gear, 597 RPM
		* varies with engine
	HYDRAULIC SYSTEM	<p>On the D-50 unit, oil is supplied by a heavy-duty gear type two-section pump rated at 19 GPM(72 l/min) and 24 GPM(91 l/min) at 2400 RPM. Maximum operating pressure is 2300 PSI(15,513 k Pa). The pump is gear driven from the engine accessory drive or from the front crank shaft.</p> <p>The hydraulic valves are stock sectional body directional control valves with an integral non-adjustable relief valve. All controls are conveniently located on a single console for ease of operation. An optional regenerative spool can be provided for the main feed valve providing a high speed spindle lift as well as normal operation.</p>
	AUGER ADAPTER	<p>A heavy duty universal joint which mounts to the spindle with a single nut is provided for ease in hook-up and adjusting for misalignment. All components are sized to withstand torque and axial loads encountered under most drilling conditions. 1-5/8" (41.3 mm) female hex is standard, other sizes available.</p>

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APPENDIX C

NT-NU SPILL REPORT FORM

Appendix A
Schedule 1 – Reportable Quantities for NT-NU Spills

Substance	Reportable Quantity	TDG Class
Explosives	Any amount	1.0
Compressed gas (toxic/corrosive)		2.3/2.4
Infectious substances		6.2
Sewage and wastewater (unless otherwise authorized)		6.2
Radioactive materials		7.0
Unknown substance		None
Compressed gas (Flammable)	Any amount of gas from containers with a capacity greater than 100 L	2.1
Compressed gas (Non-corrosive, non-flammable)		2.2
Flammable liquid	≥ 100 L	3.1/3.2/3.3
Flammable solid	≥ 25 kg	4.1
Substances liable to spontaneous combustion		4.2
Water reactant substances		4.3
Oxidizing substances	≥ 50 L or 50 kg	5.1
Organic peroxides	≥ 1 L or 1 kg	5.2
Environmentally hazardous substances intended for disposal		9.0
Toxic substances	≥ 5 L or 5 kg	6.1
Corrosive substances		8.0
Miscellaneous products, substances or organisms		9.0
PCB mixtures of 5 or more parts per million	≥ 0.5 L or 0.5 kg	9.0
Other contaminants, e.g. crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, wastewater, etc.	≥ 100 L or 100 kg	None
Sour natural gas (i.e., contains H ₂ S)	Uncontrolled release or sustained flow of 10 minutes or more	None
Sweet natural gas		
Flammable liquid	≥ 20 L	3.1/3.2/3.3
Vehicle fluids	When released on a frozen water body that is being used as a working surface	None
Reported releases or potential releases of any size that: 1. Are near or in an open water body; 2. Are near or in a designated sensitive environment or habitat; 3. Pose an imminent threat to human health or safety; or 4. Pose an imminent threat to a listed species at risk or its critical habitat	Any amount	None

Note: L = litre; kg = kilogram; PCB = Polychlorinated Biphenyls; ppm = parts per million

Appendix C



Instructions for Completing the NT-NU Spill Report Form



Spill reports to be phoned in immediately by calling collect at 867-920-8130. The NT/NU Spill Report Form can be filled out electronically and faxed to the Spill Report Line* at 867-873-6924. Forms can also be emailed as an attachment to spills@gov.nt.ca. Please verify receipt of email transmissions with a follow-up telephone call to 867-920-8130.

A. Report Date and Time	The actual date and time that the spill was reported to the Spill Report Line. If the spill is phoned in, the Spill Report Line will fill this out. <u>Please do not fill in the Report Number</u> . The Spill Report Line will assign a report number after the spill is reported.
B. Occurrence Date and Time	Indicate to the best of your knowledge the exact date and time that the spill occurred. This should not to be confused with the report date and time (Refer to Box A).
C. Land Use Permit Number and/or Water Licence Number	Fill this in only if a Land Use Permit and/or Water Licence has been issued.
D. Geographic Place Name	In most cases, this will be the name of the city or town where the spill occurred. For remote locations outside of communities, identify the most prominent geographic feature such as a named lake or mountain and/or the distance and direction from the nearest population centre. <u>Please include the geographic coordinates for remote locations</u> (Refer to Box E).
E. Geographic Coordinates	Only fill this out if the spill occurred outside of an established community (e.g. at a remote camp, mine site, road, highway or shipping route). <u>State the location in degrees, minutes and seconds of Latitude and Longitude</u> (e.g. 64°29'46"N; 110°16'24"W, where N = North Latitude and W = West Longitude).
F. Responsible Party or Ship/Vessel/Barge Name	The Responsible Party is the person who managed, controlled or owned the product when it spilled. For a spill from a ship/vessel/barge, record the ship/vessel/barge name, normally painted on one or more sides. Provide the full address, telephone number and email of the responsible party or the ship/vessel/barge operator, if known. Use box K if there is insufficient space. <u>Product owners are responsible for product spills, regardless of who or what may have actually caused a spill.</u>
G. Any Contractor Involved	Record the name and address/office location of any other parties or contractors involved with the spill (e.g. a construction company working for the owner of the spilled product and who may have contributed to or caused the spill and/or is responding to the spill on behalf of the owner).
H. Product Spilled	Identify the product spilled. Most commonly, it is gasoline, diesel fuel or sewage. Avoid using trade names for spilled products. Wherever possible, use the chemical name of the product and further identify the product using the four-digit UN number (e.g. UN1203 for Gasoline, UN1202 for Diesel Fuel and UN1863 for Jet A & Jet B fuel). URL www.en.wikipedia.org/wiki/List_of_UN_numbers
I. Spill Source	Identify the source of the spill, if known (e.g. ship/vessel/barge, storage tank, pipeline, truck, sewage lagoon, tailings pond, etc.) and the cause of the spill, if known (e.g. overfill, leak, rupture, grounding, collision, fire, flood, extreme weather, corrosion, equipment failure, human error, vandalism, etc.). Provide an estimate of the extent of the contaminated area (e.g. 10 m ² or 10 square metres).
J. Factors Affecting Spill	Identify factors that could make it difficult to control or clean up the spill (e.g. terrain, weather, access, visibility, dangerous work conditions, lack of equipment or personnel, ice, currents, tides etc.). Indicate if you require advice and/or assistance with the cleanup operation. Identify any hazards to persons, property or the environment.
K. Additional Information	Provide additional explanatory information and pertinent details about the spill (e.g. unusual hazards, properties or behaviour of the spilled product; a diagram of the spill site and affected areas; actions taken to contain, clean up and dispose of spilled material and notify affected parties; and problems or issues associated with the spill response). If necessary, append additional sheets to the spill report. Number the pages in the same format found in the lower right hand corner of the Spill Report Form (e.g. 'Page 1 of 2', 'Page 2 of 2', etc.). <u>Please number the pages so recipients can determine if they received all pages.</u>
L. Reported to Spill Report Line by	Provide your full name, employer, contact number and the location from which you are reporting the spill. Use box K if there is insufficient space.
M. Alternate Contact	Identify any alternate contacts. This information helps regulatory agencies obtain additional information if they are unable to contact the individual who reported the spill.
N. Spill Report Line Use Only	<u>Leave blank</u> . This box is for the <u>Spill Report Line's use only</u> .

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:					

DÉCLARATION DE DÉVERSEMENT AUX TNO ET AU NUNAVUT

PÉTROLE, ESSENCE, PRODUITS CHIMIQUES ET
AUTRES MATIÈRES DANGEREUSES



Canada



LIGNE TÉLÉPHONIQUE SOS DÉVERSEMENT DES TNO ET DU NUNAVUT
Tél. : 867-920-8130 • Téléc. : 867-873-6924 • Courriel : spills@gov.nt.ca

À L'USAGE
DE SOS DÉVERSEMENT
SEULEMENT

A	Date de la déclaration : AA MM JJ	Heure de la déclaration :	<input type="checkbox"/> Déclaration de déversement original Ou <input type="checkbox"/> Mise à jour de la déclaration n°	Numéro de la déclaration :	
	Date de l'incident : AA MM JJ	Heure de l'incident :			
C	N° de permis d'utilisation des terres (s'il y a lieu) :		N° de permis d'utilisation des eaux (s'il y a lieu) :		
D	Nom du lieu géographique ou distance et direction d'un lieu nommé :		Région : <input type="checkbox"/> TNO <input type="checkbox"/> Nunavut <input type="checkbox"/> Océan, province ou territoire adjacent		
E	Latitude : _____ Degrés _____ Minutes _____ Secondes		Longitude : _____ Degrés _____ Minutes _____ Secondes		
F	Partie responsable ou nom du navire :		Adresse ou emplacement du bureau de la partie responsable :		
G	Entrepreneur impliqué (s'il y a lieu) :		Adresse ou emplacement du bureau de l'entrepreneur :		
H	Type de contaminant : <input type="checkbox"/> Déversement potentiel	Quantité en litres, en kilogrammes ou en mètres cubes :	N° ONU :		
I	Source du déversement :	Cause du déversement :	Superficie contaminée en mètres carrés :		
J	Facteurs qui influent sur le déversement ou sur la réhabilitation du site :	Description de l'aide requise :	Risques pour les gens, les biens ou l'environnement :		
K	Renseignements, commentaires ou mesures proposées ou prises qui ont permis de contenir, de récupérer ou d'éliminer le contaminant déversé et les matières contaminées :				
L	Le signalement fait par :	Poste :	Employeur :	Provenance de l'appel :	Téléphone :
M	Autre personne-ressource :	Poste :	Employeur :	Lieu où se trouve la personne-ressource :	Téléphone :

À L'USAGE DE SOS DÉVERSEMENT SEULEMENT

N	Le signalement reçu par :	Poste :	Employeur :	Nom de la collectivité :	N° de tél. de sos déversment :
Organisme responsable : <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"/> Autre : _____			Importance : <input type="checkbox"/> Mineure <input type="checkbox"/> Majeure <input type="checkbox"/> Inconnue	État du dossier : <input type="checkbox"/> Ouvert <input type="checkbox"/> Fermé	
Organisme :		Personne-ressource :	Heure du signalement :	Commentaires :	
Organisme responsable :					
Organisme de soutien de première ligne :					
Organisme de soutien de deuxième ligne :					
Organisme de soutien de troisième ligne :					

APPENDIX D

MSDS SHEET FOR DIESEL

SAFETY DATA SHEET

DIESEL FUEL

000003000395



Version 6.1

Revision Date 2021/05/05

Print Date 2021/08/26

SECTION 1. IDENTIFICATION

Product name : DIESEL FUEL

Synonyms : Seasonal Diesel, #2 Diesel, #1 Diesel, #2 Heating Oil, #1 Heating Oil, OSX, D50, Arctic Diesel, Farm Diesel, Marine Diesel, Low Sulphur Diesel, LSD, Ultra Low Sulphur Diesel, ULSD, Mining Diesel, Naval Distillate, Dyed Diesel, Marked Diesel, Coloured Diesel, Furnace special, Biodiesel blend, B1, B2, B5, Renewable Diesel blend (RX where X is 2- 50, X is representative of volume %), Diesel Low Cloud (LC), Marine Gas Oil, Marine Gas Oil Dyed.

Product code : 103204, 103180, 103179, 103193, 103178, 103136, 103135, 103134, 103133, 103132, 103131, 101799, 102907, 102762, 102763, 102755, 102302, 102744, 101801, 100678, 100677, 101802, 100107, 100668, 100658, 100911, 100663, 100652, 100460, 100065, 101796, 101793, 101795, 101792, 101794, 101791, 100768, 100643, 100642, 100103, 101798, 101800, 101797, 101788, 101789, 101787, 102531, 100734, 100733, 100640, 100997, 100995, 100732, 100731, 100994

Manufacturer or supplier's details
Petro-Canada
P.O. Box 2844, 150 - 6th Avenue South-West
Calgary Alberta T2P 3E3
Canada, Telephone: 1-866-786-2671

Emergency telephone number : CHEMTREC: 1-800-424-9300 (toll free) or +1 703-527-3887;
Suncor Energy: +1 403-296-3000

Recommended use of the chemical and restrictions on use

Recommended use : Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression ignition type. Mining diesels, marine diesels, MDO and naval distillates may have a higher flash point requirement.

Prepared by : Product Safety

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Bright oily liquid.
Colour	Clear to yellow (This product may be dyed red for taxation purposes)
Odour	Mild petroleum oil like.

GHS Classification

Flammable liquids : Category 3

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Acute toxicity (Inhalation)	: Category 4
Skin irritation	: Category 2
Carcinogenicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure	: Category 2 (Liver, thymus, Bone)
Aspiration hazard	: Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Harmful if inhaled.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May cause damage to organs (Liver, thymus, Bone) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
IF exposed or concerned: Get medical advice/ attention.

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Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Primary Routes of Entry : Eye contact
Ingestion
Inhalation
Skin contact

Aggravated Medical Condition : None known.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration
Kerosine (petroleum), hydrosulfurized; Kerosine — unspecified	64742-81-0	48 - 100 %
Kerosine (petroleum); Straight run kerosine	8008-20-6	
Fuels, diesel; Gasoil — unspecified	68334-30-5	
Alkanes, C10-20-branched and linear	928771-01-1	0 - 50 %
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	0 - 20 %

All above concentrations are in percent by weight.

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Wash clothing before reuse.
Seek medical advice.

In case of eye contact : Remove contact lenses.

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If swallowed	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
	: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed	: Harmful if inhaled. Respiratory, skin and eye irritation; nausea; cancer.
Notes to physician	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry chemical Carbon dioxide (CO ₂) Water fog. Foam
Unsuitable extinguishing media	: Do NOT use water jet.
Specific hazards during fire-fighting	: Cool closed containers exposed to fire with water spray.
Hazardous combustion products	: Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), sulphur oxides (SO _x), smoke and irritating vapours as products of incomplete combustion.
Further information	: Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: For personal protection see section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions	: If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

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- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use only with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.
Avoid contact with skin, eyes and clothing.
Do not ingest.
Keep away from heat and sources of ignition.
Keep container closed when not in use.
- Conditions for safe storage : Store in original container.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a dry, cool and well-ventilated place.
Keep in properly labelled containers.
To maintain product quality, do not store in heat or direct sunlight.
Ensure the storage containers are grounded/bonded.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Kerosine (petroleum), hydrodesulfurized; Kerosine — unspecified	64742-81-0	TWA	200 mg/m ³ (As total hydrocarbon vapour)	ACGIH
		TWA	200 mg/m ³ (total hydrocarbon vapor)	CA AB OEL
		TWA	525 mg/m ³	CA ON OEL
		TWA	200 mg/m ³ (As total hydrocarbon vapour)	ACGIH
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
Kerosine (petroleum); Straight run kerosine	8008-20-6	TWA	200 mg/m ³ (total hydrocarbon vapor)	CA BC OEL
		TWA	200 mg/m ³ (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
Fuels, diesel; Gasoil — unspecified	68334-30-5	TWA	100 mg/m ³ (total hydrocarbons)	CA AB OEL
		TWA (Va-	100 mg/m ³	CA BC OEL

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		pour and inhalable aerosols)	(total hydrocarbons)	
		TWA (Inhalable fraction and vapor)	100 mg/m3 (total hydrocarbons)	ACGIH

Engineering measures : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.
Use only in well-ventilated areas.
Ensure that eyewash station and safety shower are proximal to the work-station location.

Personal protective equipment

Respiratory protection : Concentration in air determines protection needed.
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type : organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection
Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : Wash contaminated clothing before re-use.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash face, hands and any exposed skin thoroughly after handling.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Bright oily liquid.
Colour	: Clear to yellow (This product may be dyed red for taxation purposes)
Odour	: Mild petroleum oil like.
Odour Threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point/boiling range	: 150 - 371 °C (302 - 700 °F)
Decomposition temperature	No data available
Flash point	: > 40 °C (104 °F) Method: closed cup
Auto-Ignition Temperature	: 204 °C (399 °F)
Evaporation rate	: No data available
Flammability	: Flammable in presence of open flames, sparks and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. This product can accumulate static charge and ignite.
Upper explosion limit	: 6 %(V)
Lower explosion limit	: 0.7 %(V)
Vapour pressure	: 7.5 mmHg (20 °C / 68 °F)
Relative vapour density	: 4.5
Relative density	: 0.8 - 0.88
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity	
Viscosity, kinematic	: 1.3 - 4.1 cSt (40 °C / 104 °F)

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Reactive with oxidising agents and acids.
Hazardous decomposition products	: May release COx, NOx, SOx, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Ingestion
Inhalation
Skin contact

Acute toxicity

Product:

Acute oral toxicity	: Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Harmful if inhaled.
Acute dermal toxicity	: Assessment: The substance or mixture has no acute dermal toxicity

Components:

Kerosine (petroleum), hydrodesulfurized; Kerosine — unspecified:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	: LC50 (Rat): > 5.2 mg/l Exposure time: 4 hrs Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg,

Kerosine (petroleum); Straight run kerosine:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg,

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Fuels, diesel; Gasoil — unspecified:

Acute oral toxicity : LD50 (Rat): 7,500 mg/kg,
Acute inhalation toxicity : LC50 (Rat): 4.1 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Mouse): 24,500 mg/kg,

Skin corrosion/irritation

Product:

Remarks: Causes skin irritation.

Serious eye damage/eye irritation

Product:

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment	Based on available data, the classification criteria are not met.
---------------------------------------	---

Carcinogenicity

Product:

Carcinogenicity - As- essment	Suspected of causing cancer.
----------------------------------	------------------------------

Reproductive toxicity

Product:

Reproductive toxicity - Assessment	Based on available data, the classification criteria are not met.
---------------------------------------	---

STOT - single exposure

Product:

Target Organs: Central nervous system
Remarks: May cause drowsiness or dizziness.

STOT - repeated exposure

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Product:

Target Organs: Liver, thymus, Bone

Remarks: May cause damage to organs through prolonged or repeated exposure.

No data available

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

Toxicity to bacteria : Remarks: No data available

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Offer surplus and non-recyclable solutions to a licensed disposal company.
Waste must be classified and labelled prior to recycling or disposal.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.

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Contaminated packaging : Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.
: Contact local or business unit authorities for guidance on disposal of product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 1202
Proper shipping name : Diesel fuel
Class : 3
Packing group : III
Labels : Class 3 - Flammable Liquid
Packing instruction (cargo aircraft) : 366

IMDG-Code

UN number : UN 1202
Proper shipping name : DIESEL FUEL
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

National Regulations

TDG

UN number : UN 1202
Proper shipping name : DIESEL FUEL
Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

The components of this product are reported in the following inventories:

DSL : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

For Copy of SDS : Internet: www.petro-canada.ca/msds

SAFETY DATA SHEET

DIESEL FUEL

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Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228

For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety

Revision Date : 2021/05/05

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

APPENDIX E

LIMITATIONS ON THE USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

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Where TETRA TECH submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed TETRA TECH's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by TETRA TECH shall be deemed to be the original. TETRA TECH will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of TETRA TECH's Instruments of Professional Service shall not, under any circumstances, be altered by any party except TETRA TECH. TETRA TECH's Instruments of Professional Service will be used only and exactly as submitted by TETRA TECH.

Electronic files submitted by TETRA TECH have been prepared and submitted using specific software and hardware systems. TETRA TECH makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

1.3 STANDARD OF CARE

Services performed by TETRA TECH for the Professional Document have been conducted in accordance with the Contract, in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of TETRA TECH.

1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with TETRA TECH with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for TETRA TECH to properly provide the services contracted for in the Contract, TETRA TECH has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

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