

CLEARHILLS

SUPPLEMENTAL EMERGENCY RESPONSE PLAN to Corporate (Core) Emergency Response Plan

DISCLAIMER:

In accordance with federal guidelines, portions of this Emergency Response Plan have been redacted as per the following:

- Canada Energy Regulator Order AO-001-MO-006-2016 s. 1.a.i.: personal Information
- Canada Energy Regulator Order AO-001-MO-006-2016, s. 1.a.ii.: facility / pipeline technical data, disclosure of which would risk security

Uncontrolled when printed. No part of this document may be copied, photocopied, reproduced or used in any form without express written consent from Canadian Natural Resources Limited

March 31, 2023

Canadian Natural Resources Limited 1-888-878-3700 24 Hour Emergency Number



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

AMENDMENT PROTOCOL

Annual updates are indicated by a consecutive 'revision' number dash zero (e.g. 7-0) while major revisions requiring a distribution will trigger a consecutive number change (e.g. 7-1).

Notification of errors and / or suggestions for improvement will be reviewed, addressed according to significance and considered for the next update by the EM Team. These notifications should include a) the ERP name, b) section(s) and page number(s) affected and c) the rationale for change and directed to:

CANADIAN NATURAL RESOURCES LIMITED Email:

Canadian Natural is committed to the continuous improvement of its documentation. For full details on Canadian Natural's Management of Change protocols, refer to Section 7 of the Corporate (Core) Emergency Response Plan.

All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means, (electronic, mechanical, photocopying, recording or otherwise) or stored in any retrieval system of any nature without written permission of Canadian Natural.

	AMENDMENT RECORD							
Date (YYYY/MM/D) ERP Planner	Rev	Revision Details	Annual Update (Y / N)	Date inserted in ERP (YYYY/MM/D)	Inserted / Replaced by (Name & Signature)			
2023/03/31	16-0	Reviewed and updated gathering system, public and contact information where applicable	Υ					
2022/03/31	15-0	 Reviewed and updated gathering system, public and contact information where applicable Assets in Floral were excluded in the ERP due to area operation reorganization. ERP Name changed to "Clearhills". 	Y					
2021/03/31	14-0	Reviewed and updated gathering system, public and contact information where applicable	Υ					
2020/03/31	13-0	Reviewed and updated gathering system, public and contact information where applicable	Υ					
2019/03/29	12-0	Reviewed and updated gathering system, public and contact information where applicable	Υ					
2018/03/29	11-0	Reviewed and updated gathering system, public and contact information where applicable	Υ					
2017/03/30	10-0	Reviewed and updated gathering system, public and contact information where applicable	Y					



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

The Clearhills ERP is Supplemental to Canadian Natural's Corporate (Core) Emergency Response Plan and covers the following:

AREA NAME	LOCATION	DESCRIPTION	REGULATOR ERP ID
Clearhills		Sour Production	
Clearhills		Propane (E2)	
Clearhills		Natural Gas Condensates (E2)	
Clearhills		CER Regulated Pipeline	
Clearhills		CER Regulated Pipeline	
Clearhills		CER Regulated Pipeline	

TABLE OF CONTENTS

AMENDMENT PROTOCOL & RECORD ALL HAZARDS IDENTIFICATION TABLE

- 1 SITE-SPECIFIC DISTRIBUTION LIST
 - 1.1 INTERNAL COPIES
 - 1.2 EXTERNAL COPIES

2 GENERAL INFORMATION

- 2.1 INTRODUCTION AND SUMMARY
 - 2.1.1 Facility General Information Location
 - 2.1.2 Incident Command Post (ICP) / Emergency Operations Centre (EOC)
 - 2.1.3 Safe Locations
 - 2.1.4 General Land Use and Population Density
 - 2.1.5 Emergency & Roadblock Equipment
 - 2.1.5.1 Emergency Equipment
 - 2.1.5.2 Roadblock (EPZ Isolation) Equipment
 - 2.1.6 External Emergency Response Plans / Mutual Aid
 - 2.1.6.1 External Emergency Response Plans Local Municipalities
 - 2.1.6.2 External Emergency Response Plans: Local Health Services
 - 2.1.6.3 Mutual Aid
 - 2.1.7 Driving Directions and Map
 - 2.1.7.1 Driving Route
 - 2.1.7.2 Proximity To Nearest Urban Centre

TABLE OF CONTENTS Page i

Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.7.3 Latitude and Longitude Coordinates

- 2.2 EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS
- 2.3 COMMUNICATIONS
 - 2.3.1 Communication Equipment
 - 2.3.2 Radio Frequencies
- 2.4 SPILL RESPONSE

3 CONTACTS AND TELEPHONE LISTS

- 3.1 COMPANY EMERGENCY CONTACTS
- 3.2 MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART)
- 3.3 ROAD CLOSURE CONTACTS
- 3.4 WATER INTAKE CLOSURE CONTACTS
- 3.5 PROVINCIAL GOVERNMENT CONTACTS
- 3.6 EMERGENCY SERVICE NUMBERS
- 3.7 TDG / LPG EMERGENCY NUMBERS
- 3.8 MUNICIPAL GOVERNMENT CONTACTS
- 3.9 FEDERAL GOVERNMENT CONTACTS
- 3.10 CONTRACT SERVICES
 - 3.10.1 Air Quality Monitoring (Mobile)
 - 3.10.2 Aircraft (Fixed Wing) Charters
 - 3.10.3 Communications Rental Equipment
 - 3.10.4 Drone / UAV Operators
 - 3.10.5 Fresh Water Hauling
 - 3.10.6 Helicopters
 - 3.10.7 Safety Services
 - 3.10.8 Spill Response Equipment
 - 3.10.9 Well Blowout Control
 - 3.10.10 Western Canadian Spill Services (WCSS) Coop "8" & "9"

4 PUBLIC NOTIFICATIONS

- 4.1 NOTIFICATION PROCEDURES
 - 4.1.1 Telephone Callers
 - 4.1.2 Automated Public Notification System (Not Applicable)
- 4.2 RECEPTION CENTRE(S)
- 4.3 RESIDENT / ORGANIZATION INFORMATION
- 4.4 SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE
 - 4.4.1 Locating Transients and Recreational Users
 - 4.4.2 Recreation Area

TABLE OF CONTENTS Page ii

Canadian Natural

EMERGENCY RESPONSE PLAN CLEARHILLS

Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

- 4.5 SCHOOLS DIVISION(S) / SCHOOL(S)
- 4.6 INDUSTRIAL OPERATOR(S)
- 4.7 TRAPPERS / GUIDE OUTFITTERS
- 4.8 GRAZING LEASE(S) / RESERVE(S) AND OTHER LAND USE DISPOSITIONS
- 4.9 FOREST MANAGEMENT AREA(S)
- 4.10 FIRST NATIONS / INDIGENOUS NATIONS

5 GATHERING SYSTEM INFORMATION

- 5.1 FACILITY INFORMATION
 - 5.1.1 Facility Summary
 - 5.1.2 Emergency Control Systems
- 5.2 FACILITY, PIPELINE AND WELL INFORMATION
 - 5.2.1 Facility Release Rates and Emergency Planning Zones
 - 5.2.2 Pipeline List Legend
 - 5.2.3 Pipeline Release Volumes and Emergency Planning Zones
 - 5.2.4 Well Release Rates and Emergency Planning Zones

6 MAPS & PUBLIC INFORMATION PACKAGE

- 6.1 SITE SPECIFIC ERP MAP
- 6.2 PUBLIC INFORMATION PACKAGE

7 CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) 1999 – ENVIRONMENTAL EMERGENCY (E2) PLAN PRINCIPLES

- 7.1 INTRODUCTION
- 7.2 SCOPE
- 7.3 SUBSTANCE DATA & EMERGENCY PLANNING ZONE (EPZ)
- 7.4 TRAINING & EXERCISES

8 ON SITE E2 REGULATED SUBSTANCE(S) OVERVIEW & RESPONSE PROCEDURES

- 8.1 NATURAL GAS CONDENSATE
 - 8.1.1 Characteristics Fire or Explosion
 - 8.1.2 Health Impacts
 - 8.1.3 Facility Overview
 - 8.1.3.1 Facility Plot Plan –
 - 8.1.3.2 Description of Industrial Processes Involving Regulated Substance
 - 8.1.3.3 Containment System
 - 8.1.4 Summary of Identified Environmental Emergencies
 - 8.1.4.1 Worst Case Scenario
 - 8.1.4.2 Alternate Worst Case Scenario
 - 8.1.5 Emergency Response Procedures
 - 8.1.6 Recovery / Restoration

TABLE OF CONTENTS Page iii



Revision 16-0 | March 31, 2023

8.2.6 Recovery / Restoration

24-Hour Emergency 1-888-878-3700

8.2	NGL / I	_PG / LNG – PROPANE
	8.2.1	Characteristics
	8.2.2	Health Impacts
	8.2.3	Facility Overview
		8.2.3.1 Facility Plot Plan –
		8.2.3.2 Description of Industrial Processes Involving Regulated Substance
		8.2.3.3 Containment System
	8.2.4	Summary of Identified Environmental Emergencies
		8.2.4.1 Worst Case Scenario
		8.2.4.2 Alternate Worst Case Scenario
	825	Emergancy Response Procedures

TABLE OF CONTENTS Page iv



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

ALL HAZARDS IDENTIFICATION TABLE & SECTION 1: SITE SPECIFIC DISTRIBUTION LISTS

Al	LL H	AZARDS IDENTIFICATION TABLE	1
1	SIT	E-SPECIFIC DISTRIBUTION LIST	5
		INTERNAL COPIES	
	1.2	EXTERNAL COPIES	6



CLEARHILLS

HAZARD IMPACTS:

Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

Completed By:

ALL HAZARDS IDENTIFICATION TABLE

RANK

MITIGATION MEASURES AVAILABLE / NEEDED

(Fundamental Reference Materials: SMS Section 22 / Safe

		HAZARD IMPACTS:			RANK	(Fundamental Reference Materials: SMS Section 22 / Safety		
POTENTIAL HAZARD			ENVIRONMENT		COMPANY	HAZARD IMPACT	Data Sheets (SDS) / ERP Manual / Emergency Response Guide / Guide to Safety & Compliance / First Responder's Guide / Site-	
HAZAKU		PUBLIC	LAND USE WILDLIF	WILDLIFE /	ASSETS	(Low / Med /	Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)	
			AREAS	LIVESTOCK		High)	CONTROLS / EQUIPMENT / RESOURCES	
							□ Personal Gas Monitor	
							□ Portable Gas Detector	
							⊠ SCBA	
						Low	□ SABA	
						(assets located in	⊠ ESD Procedures	
Hydrogen Sulphio	de	Yes	Yes	Yes	Yes	remote area, no		
(H₂S) Release		162	165	162	165	known public / waterbodies /	☐ Ignition Resources – Equipment	
						livestock within or close to EPZs)	☐ Ignition Resources – Service Provider	
						ciose to EPZS)	⊠ Roadblock Kit(s)	
							☐ Communication Plans – Public / Media	
							□ SCADA ESD	
							Other:	
							□ SCADA ESD	
							Evacuation Procedures	
High Vapour Pres	ssure						Roadblock Kit(s)	
(HVP) Pipeline							Communication Plans – Public / Media	
Release							Emergency Response Plan	
(pipelines that conv							ESD Procedures	
hydrocarbon mixtui the liquid or quasi-l							Emergency Planning Zone(s)	
state with a vapour							Ignition Resources – Equipment	
pressure of greater							Ignition Resources – Service Provider	
110 kPa absolute a 38°C)	at						Fire Extinguishers	
30 0/							Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers	
							Other:	



CLEARHILLS

Revision 16-0 | March 31, 2023

		HAZARD I	MPACTS:		RANK	MITIGATION MEASURES AVAILABLE / NEEDED (Fundamental Reference Materials: SMS Section 22 / Safety Data		
POTENTIAL		ENVIRONMENT		001174111/	HAZARD IMPACT	Sheets (SDS) / ERP Manual / Emergency Response Guide / Guide to Safety & Compliance / First Responder's Guide / Site-Specific		
HAZARD	PUBLIC	LAND USE	WILDLIFE /	COMPANY ASSETS	Low/Med/	Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)		
		AREAS	LIVESTOCK		High	CONTROLS / EQUIPMENT / RESOURCES		
						ACTIVE MITIGATIONS		
						Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers		
						☐ Fire Extinguishers		
Large Chemical						⊠ Roadblock Kit(s)		
Storage Hazards						☐ Communication Plans – Public / Media		
(CEPA – E2)						☐ Ignition Resources – Equipment		
(large active storage	Yes	Yes	Yes	Yes	Low	☐ Ignition Resources – Service Provider		
vessels for NGLs, LPGs, LNGs,						Evacuation Zone		
condensate, crude oil.								
hydrochloric acid,								
pentanes, etc.)						□ SCADA ESD		
						PASSIVE MITIGATIONS		
						Secondary Containment – earth berms, dikes		
						☐ Separator / Surface Water Collection System		
						☐ Vessel Protection Systems – PSVs, high level alarm		
						□ SCADA ESD		
						⊠ CiNQ – Environment Conventional – Thermal Intranet Site: spill reporting procedures / docs		
Petroleum Release /						▼ TDG / LPG Emergency Responsibilities (Guideline 10, Corporate ERP)		
Spill								
(on land or in water,	Yes	Yes	Yes	Yes	Low			
 includes all types of 	163	165	165	165	LOW	☐ Boom(s)		
petroleum spills, gas releases, flammable								
vapours releases)						⊠ Roadblock Kit(s)		
, , , , , , , , , , , , , , , , , , , ,						□ Proper PPE		
						☐ Communication Plans – Public / Media		
						Other:		



CLEARHILLS

Revision 16-0 | March 31, 2023

			MPACTS:		RANK	MITIGATION MEASURES AVAILABLE / NEEDED		
POTENTIAL		ENVIRO	ENVIRONMENT		HAZARD	(Fundamental Reference Materials: SMS Section 22 / Safety Data Sheets (SDS) / ERP Manual / Emergency Response Guide		
HAZARD	PUBLIC	LAND USE WILDLIFE / AREAS LIVESTOCK		COMPANY ASSETS	IMPACT Low / Med / High	/ Guide to Safety & Compliance / First Responder's Guide / Site- Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems) CONTROLS / EQUIPMENT / RESOURCES		
						Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers Fire Extinguishers		
						Fire Detection System (facilities)		
	Yes	Yes	Yes	Yes	Low	Roadblock Kit(s) Communication Plans – Public / Media		
						⊠ Evacuation Procedures □ ESD Procedures □ Other:		
						☐ Officer. ☐ ESD Procedures		
	n include grassfires, (municipal / provincial municipal / provincial provincial provincial municipal / provincial yes			Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers				
Wildfire ⊠ (can include grassfires. (mur		(municipal / provincial	(municipal / provincial	Yes	High (SMS Procedure 22.06)	Fire Extinguishers		
forest fires)						Site Specific Wildfire Plans Evacuation Procedures		
		,				☐ Transportation Available		
						Provincial Wildfire Reporting Contact Numbers		
						☒ Spill Reporting Procedures ☒ SDS – accessible via online database, EOC, District offices		
On-Site Chemicals /	n/a	n/a	n/a			Fire Extinguishers		
	azards contained	(hazards contained within lease	(hazards contained within lease	Yes	Low	Absorbent Materials		
(at ERP's main facilities) within	n lease boundaries)	boundaries)	boundaries)			☑ Proper Storage ☑ Proper PPE		
						☑ Proper PPE ☑ SMS COP: Storage, Handling, Use / Disposal of Harmful Substances		
						Shelter / Evacuation Procedures		
Company Facility ⊠ Isolation	n/a	n/a	n/a	Yes	Low	Other Transportation Available – e.g. snowmobile, ATV, helicopter, boat, etc.		
(if access roads closed)	not EPZ related)	(not EPZ related)	(not EPZ related)	163	LOW			
(ii access roads crosed)						Other:		



CLEARHILLS

Revision 16-0 | March 31, 2023

			HAZARD II	MPACTS:		RANK	MITIGATION MEASURES AVAILABLE / NEEDED (Fundamental Reference Materials: SMS Section 22 / Safety Data Sheets (SDS) / ERP Manual / Emergency Response Guide		
	POTENTIAL		ENVIRONMENT			HAZARD			
HAZARD		PUBLIC	LAND USE	WILDLIFE / LIVESTOCK	COMPANY ASSETS	IMPACT Low / Med / High	/ Guide to Safety & Compliance / First Responder's Guide / Site- Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)		
				2.720.00K		g	CONTROLS / EQUIPMENT / RESOURCES		
							Landlines		
	0						☐ Cell phones		
\boxtimes	Communications	n/a	n/a	n/a	Yes	Low	2-Way Radios		
	Failure	(not EPZ related)	(not EPZ related)	(not EPZ related)			2-Way Radios – Service Provider Internal Communication / Notification System		
							Other:		
							Back-up generator(s)		
	Power Outages	n/a	n/a	n/a	Yes	Low	Communication systems		
	1 Ower Odlages	(not EPZ related)	(not EPZ related)	(not EPZ related)		LOW	Other:		
	O W (I /								
	Severe Weather /						⊠ ESD Procedures		
	Natural Disasters	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low			
\boxtimes	(includes severe storms, blizzards, tornadoes,						Shelter / Evacuation Procedures		
	earthquakes, floods,						☐ Pumps		
	landslides)						Other:		
							□ Back-Up Resources for Continued Operations		
\boxtimes	Pandemic	n/a	n/a	n/a	Yes	Low	☑ Internal Communication / Notification System		
	(reduced workforce)	(not EPZ related)	(not EPZ related)	(not EPZ related)	res	LOW	Canadian Natural Pandemic Protocols – Human Resources		
	Security Threats	,	,	,			⊠ Roadblock Kits		
\boxtimes	(theft / vandalism /	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low			
	violence / terrorism)	(not El 2 lolatou)	(not El 2 leiateu)	(not El 2 leiatea)					
							☐ Information Systems: Disaster Recovery Principles		
	Other								



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

1 SITE-SPECIFIC DISTRIBUTION LIST

1.1 INTERNAL COPIES

СОРҮ	RECIPIENT	POSITION	LOCATION	CONFIDENTIAL INFORMATION INCLUDED (✓)
1		Foreman	Edson Office	✓
2		Assistant Foreman	Truck	✓
3		Area Superintendent	FSJ Office - Designated ICP	✓
4		Manager, Fort St. John Field Operations	Calgary Office	
Electronic (CiNQ)		Safety & Compliance Coordinator	Fort St. John Office	
5		Area Landman - BC	Fort St. John Office	✓
6		Area Landman - AB	Grande Prairie	✓
7	Clearhills Compressor Station	Compressor Station		
8	Clearhills Gas Plant	Office		
9	Clearhills Gas Plant	Camp		
10	Emergency Response Mobile Cart		Calgary Office	✓
11	Calgary Emergency Operations Centre (EOC)		Calgary Office BHE 26002	✓
*	ERP Map(s) for Roadblock Kits	Floral Gas Plant		
*	ERP Map(s) for Roadblock Kits	Clearhills Gas Plant		
*	ERP Map(s) for Roadblock Kits	Sweeney Oil Battery		



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

1.2 EXTERNAL COPIES

COPY#	RECIPIENT	ORGANIZATION	LOCATION
12	CER – Hard Copy	Canada Enarros Dagulatas	517 – 10 th Avenue SW
Flashdrive	CER – Electronic Copy	Canada Energy Regulator	Calgary, AB T2R 0A8
13	Emergency Response and Safety Inspector	British Columbia Energy Regulator	COURIER: 6534-100 th Avenue Fort St. John BC V1J 8C5
eSubmission	British Columbia Energy Regulator	British Columbia Energy Regulator	
DDS	Alberta Energy Regulator	Alberta Energy Regulator	
SWIM	E2 Plan registration only (full copy not required)	Environment and Climate Change Canada	Public Inquiries Centre 12 th Floor, Fontaine Building 200 Sacré-Coeur Boulevard Gatineau QC, K1A 0H3
Email	Director of Emergency Management	Clear Hills County	Box 240 Worsley AB T0H 3W0
Email	North Zone Manager, Environmental Public Health	AHS – North Zone	
Email	Protective Services Manager	Peace River Regional District	

Flashdrive	Electronic copy on flashdrive
eSubmission	Electronic copy submitted via British Columbia Energy Regulator's online submission portal
DDS	Electronic copy uploaded via Alberta Energy Regulator online submission system
Email	Electronic copy provided by email
SWIM	Single Window Information Management system under Environment and Climate Change Canada (ECCC)

EXTERNAL ERP DISTRIBUTION DISCLAIMER:

Site-Specific ERPs are forwarded electronically while the Corporate ERP can be found on our website here: https://www.cnrl.com/sustainability/workplace-process-safety/emergency-management

The following stakeholders who are impacted by an Emergency Planning Zone have been offered an information package as part of the consultation process if applicable:

- Local Indigenous Nations
- · Residents / Businesses
- Public Facilities
- Local Airport Operators
- Registered Trappers / Guide Outfitters
- Grazing Lease Holders
- Grazing Reserves
- Forestry Management Areas
- Rights Holders



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 2: GENERAL INFORMATION

2.1	INTRO	DUCTION AND SUMMARY	1
	2.1.1	Facility - General Information Location	1
	2.1.2	Incident Command Post (ICP) / Emergency Operations Centre (EOC)	1
	2.1.3	Safe Locations	1
	2.1.4	General Land Use and Population Density	2
	2.1.5	Emergency & Roadblock Equipment	3
		2.1.5.1 Emergency Equipment	
		2.1.5.2 Roadblock (EPZ Isolation) Equipment	4
	2.1.6	External Emergency Response Plans / Mutual Aid	5
		2.1.6.1 External Emergency Response Plans - Local Municipalities	5
		2.1.6.2 External Emergency Response Plans: Local Health Services	7
		2.1.6.3 Mutual Aid	
	2.1.7	Driving Directions and Map	
		2.1.7.1 Driving Route	
		2.1.7.2 Proximity To Nearest Urban Centre	10
		2.1.7.3 Latitude and Longitude Coordinates	10
2.2	EMER	GENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS	12
2.3	COMM	IUNICATIONS	13
	2.3.1	Communication Equipment	13
	2.3.2	Radio Frequencies	13
2.4	SPILL	RESPONSE	13



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2 GENERAL INFORMATION

2.1 INTRODUCTION AND SUMMARY

2.1.1 FACILITY - GENERAL INFORMATION LOCATION

FACILITY LOCATION	Clearhills Gas Plant		
PHONE NUMBERS	NUMBER	DESCRIPTION	
		Office	
		24-Hour On-Call Phone	
	NA	Control Room	

DISTRICT OFFICE LOCATION	Fort St. John Office		
	NUMBER	DESCRIPTION	
PHONE NUMBERS		Office	
		Fax	
		On-Call Phone	

2.1.2 INCIDENT COMMAND POST (ICP) / EMERGENCY OPERATIONS CENTRE (EOC)

OFFICE LOCATION	Fort St. John District Office		
STREET ADDRESS	6744 Airport Road Fort St. John BC V1J 4H9		
MAILING ADDRESS	Bag 6450 Fort St. John BC V1J 4H9		
	250-785-3085 Office		
PHONE NUMBERS	250-785-3055 Fax		
	250-263-2019 On-Call Phone		

2.1.3 SAFE LOCATIONS

NAME	LOCATION
On-Site Safe Location (Muster Area):	Upwind side of incident
Off-Site Safe Location (Staging Area):	To be determined at time of incident



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.4 GENERAL LAND USE AND POPULATION DENSITY

Local Munic	ipality	Municipal District of Clear Hills Peace River Regional District			
Area Land U	lse	Hunting, trapping, ranching and oil and gas operations			
		POPULATI	ON DENSITY (WITHIN EPZ)		
NUMBER	R TYPE DESCRIPTION		DESCRIPTION		
3	Residences		Section 4		
2	Businesses / Organizations		Section 4		
0	Public Facilities Areas	/ Recreational			
4	Trappers / Guid	e Outfitters	See Section 4		
0	Grazing Leases	/ Reserves	See Section 4		
0	Forest Manager	ment Areas	See Section 4		
0	First Nations				
Various	Lakes / Rivers		Little Clear River and several unnamed tributaries		
0	Public Highways	3			
0	Other (Railway,	logging, etc.)			



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.5 EMERGENCY & ROADBLOCK EQUIPMENT

2.1.5.1 Emergency Equipment

TYPE	QUANTITY	LOCATION / NOTES
Burn Kit	2	Clearhills plant
Eye Wash Station – 1 litre bottle	Variable	Clearhills plant
Eye Wash Station – 15 min flow	Variable	19 - Clearhills plant 2 - Clearhills compressor station
First Aid Kit	Variable	Operators' Trucks Clearhills plant Clearhills office
First Aid Room	-	
First Aid Station	1	Clearhills plant
Fire Blanket	-	
Firefighting Hand Tools (e.g. shovels, axes, picks, hand pump water packs, etc) - minimum requirements in place for different provinces (see Corp ERP, Section 2.2.4)	-	
Handheld Fire Extinguisher	Variable	Throughout Clearhills plant Clearhills compressor station Operators' trucks
Ignition Equipment	-	
Personal Gas Monitor	5	Operators' trucks plus 2 spares
Portable Gas Detector	-	
Portable Spill Response Kit	2	Clearhills gas plant shop
Self-Contained Breathing Apparatus (SCBA)	17	Clearhills Clearhills Operators' trucks
Spill Response Trailer	-	None located on site Nearest CNRL Trailer(s): - Progress
Supplied Air Breathing Apparatus (SABA)	-	
Wheeled Fire Extinguisher (150 - 300 lb)	-	



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.5.2 Roadblock (EPZ Isolation) Equipment

Roadblock locations will be determined at the time of an incident. Refer to Corporate (Core) Emergency Response Plan – Public Protection Measures for isolation procedures.

ROADBLOCK KIT CONTENTS	QUANTITY	LOCATION	
3 triangular flare / reflector kits 1 traffic vest (mesh with reflective striping) 1 Stop / Slow paddle 3 traffic cones 1 30-minute flare with spike 1 flare gun with flares 1 6-volt flashlight with spare battery 1 12-volt spotlight 1 roll of Caution tape 1 windsock and stand - clipboard, pencils, paper - ERP map(s)	3	1 at 1 at Clearhills 1 at Sweeney	Gas Plant Gas Plant Oil Battery



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.6 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID

Canadian Natural maintains emergency response support / mutual aid understandings with local authorities impacted by this ERP and information from these understandings are included in the sections below. These understandings are maintained by annual consultations; consultation forms are filed separately with the Emergency Management group and are not included in this plan. Consultation forms are used to:

- Collect contact information for emergency notification and updating purposes
- Inform government / agency / emergency responder of Canadian Natural practices and procedure to be followed
- Make available relevant information consistent with that which is specified in our Emergency Response Plan (ERP) to the government / agency / emergency responder
- Clarify roles, responsibilities and capabilities of both parties, including support and / or additional aid from agency
- Inform the government / agency / emergency responder of the potential hazards of Canadian Natural facilities
- Inform government / agency / emergency responder of Canadian Natural's risk controls and mitigation activities
- Collect the authorization signature of the relevant agency representative

2.1.6.1 External Emergency Response Plans - Local Municipalities

Clear Hills County - AB

Roles and Responsibilities

- Initiates and manages the local disaster services response in accordance with County Policy.
- May dispatch representative(s) to the Government's Off-Site Emergency Operations Centre.
- Ensures all local emergency and public information services are available in accordance with County Policy (Public Information Releases will be coordinated with the company's Public Information Officer).
- If required, activates Municipal Emergency Operations Centre (MEOC) and coordinates activities at this centre. The MEOC is available to the company for use as a Regional Emergency Operations Centre (REOC) subject to limitations as may be imposed by Clear Hills County due to current operations requirements at the time.
- Upon request, may assist with set up and administration of Reception Centre. May assist with arrangement of temporary accommodations for residents who have been evacuated in accordance with County Policy.
- May assist with set up and maintenance of roadblocks in accordance with County Policy.
- May assist with fire protection in accordance with County Policy in areas where accessible.
- If necessary, may declare a local state of emergency to provide local authorities with special powers.
- Supports the company in dealing with the emergency in accordance with County Policy.

Resources

There is one County Fire Department, located at Worsley and three Fire Departments on contract from Hines Creek, Fairview and Berwyn for the Hines Creek and east areas, each with approximately 20 volunteer firefighters.

Note: The Fire Departments are not equipped for industrial fire protection and would only be responsible for anything off-site or outside of the Emergency Planning Zone (EPZ). Some Fire Department resources may be useful for on-site actions such as water tanks potable water tanks, etc. and may be made available if requested. Certain area of Clear Hills County have limited access or are extremely remote from any Fire Department.

The Alberta Agriculture and Forestly Wildfire Management Area is responsible for wildland fire protection in these area. The County has no Special Constables. All policing duties are covered by the RCMP. The Public Works Department employs about six personnel, which expands to 20 employees during summer.

Emergency Medical Serives are under Alberta Health Services: dail 9-1-1.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.6 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID (CONTINUED)

Clear Hills County (continued)

Emergency Services / Equipment:

Fire Services – Worsley & Hines Creek Volunteer Fire departments – both have on call firefighters that service Clear Hills County area.

Road Maintenance - The County repairs and maintains its own system of rural roads, bridges and urban streets.

Personnel - NA

Equipment - NA

Equipment: Local Law Enforcement County Enforcement Service – 9-1-1

Peace River District (PRRD) - BC

The Peace River Regional District will be notified at any time an emergency occurs that involves the evacuation of residents. It is essential that Canadian Natural's Incident Commander or designate maintain communication with PRRD's Protective Services Manager to ensure that responses are coordinated.

The PPRD has a formal Emergency Management Plan that outlines the measures and sources of assistance that can be obtained to support emergency response efforts within their jurisdiction. Upon request from the Oil and Gas Commission (OGC), the Regional District may address emergency response capabilities, expectations and preparedness. If required, the Regional District may activate their emergency plan in order to:

- Dispatch representative(s) to the EMBC's Emergency Operation Centre (EOC), if established
- Provide support to ensure notifications of endangered area residents
- Provide support to coordinate and deliver emergency social services to evacuated residents
- If necessary, declare a State of Local Emergency and issue an evacuation Alert, Order and Rescind
- Assist in a public information service; joint OGC, Industry, local government
- Provide building re-entry procedures

Emergency Services / Equipment:

Fire Services – The PRRD provides enhanced 9-1-1 Emergency Services to all municipalities and electoral areas of the Regional District. The 9-1-1 Emergency Services also includes fire / rescue radio dispatch for eleven fire departments throughout the region; the fire dispatch center is located on Vancouver Island

Road Maintenance – All Road maintenance in the PRRD is the responsibility of the Ministry of Transportation and Infrastructure (MOTI) North and South Peace Districts.

Personnel –PRRD Facilities crews are available only to assist with PRRD-owned solid waste sites as well as water and Sewer systems.

Equipment - None

Emergency Operations Centre – The PRRD Protective Services staff can open an EOC to assist with the establishment of a State of Local Emergency for evacuations and other orders.

Equipment: Local Law Enforcement

County Enforcement Service – All Police Services in the PRRD are under the responsibility of the local RCMP detachments, and available via 911

Community Peace Officers - None

By Law Officers - None



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

Local RCMP Detachments

The local RCMP detachments of Fairview (AB), Fort St. John (BC):

- May assist with initial area isolation, evacuation and / or assistance with closure of roads
- · Provides security, traffic and crowd control
- May assist in search and rescue activities
- · Maintains law and order

2.1.6.2 External Emergency Response Plans: Local Health Services

Alberta Health Services - North Zone

ENVIRONMENTAL PUBLIC HEALTH ROLES AND RESPONSIBILITIES

Alberta Health Services (AHS) – Environmental Public Health (EPH) roles and responsibilities in public health emergency preparedness and response to the oil and gas industry are outlined below. The provision of services during an emergency depends upon our assessment of legislative responsibilities, impact to services and business continuity.

EPH will endeavor to:

- Participate with the Licensee in the development of their Emergency Response Plans as it relates to the EPH Program's role and responsibility.
- Provide the AHS Zone Single-Point-of-Contact (SPOC) emergency phone number to enable the Licensee to notify
 and alert the Zone of an emergency. From the initial notification or alert, AHS emergency response will fan out to and
 coordinate with other AHS programs and facilities as necessary. 9-1-1 EMS services remain independent of the Zone
 SPOC notification / alert process.
- Participate with stakeholders in preparedness training and exercises associated with a Licensee's simulated activation
 of an Emergency Response Plan in which EPH has a role and responsibility.
- Participate in public information sessions during the Licensee's Emergency Response Plan development process when appropriate and resources permit.
- Provide guidance to stakeholders and local municipal authorities in identifying sites suitable for establishing and operating an evacuation Centre and / or Reception Centre, including operational requirements.
- In consultation with the Zone Medical Officer of Health (MOH) provide guidance to stakeholders on substances that may affect public health, including Alberta Health and Wellness acute exposure health effects for hydrogen sulphide and sulphur dioxide.
- Conduct assessments, inspections and give regulatory direction, when appropriate, to ensure the requirements of
 provincial legislation and EPH program areas of responsibilities for public health protection and disease prevention
 are maintained.
- Notify the Zone Medical Officer of Health of any incident affecting or potentially affecting other AHS programs or facilities. The Zone MOH will notify and coordinate emergency response in other program areas and facilities as necessary.
- Establish EPH emergency management operations, when appropriate, to support regional response efforts and liaise with the Government Emergency Operations Centre, Municipal Emergency Operations Centre and / or industry Emergency Operations Centre, if needed.
- Assist the Zone Medical Officer of Health, local municipal authority and Public Information / Communication Officers in the development, issuance and rescinding of public health, public evacuation and shelter-in-place advisories.
- Provide guidance to stakeholders on matters relating to evacuation of the public and / or public facilities and the reoccupancy of those evacuated areas or facilities.
- Record and respond to health complaints or concerns from the public during and following an incident.
- Participate in stakeholder debriefings as necessary.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.6 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID (CONTINUED)

2.1.6.2 External Emergency Response Plans: Local Health Services (continued)

Health Emergency Management British Columbia (HEMBC) / Northern Health (NH)

Health Emergency Management BC, North (HEMBC)

HEMBC is a program under the Provincial Health Services Authority (PHSA). HEMBC provides the expertise, education, tools, and support specifically for the BC Health Sector to effectively mitigate, prepare for, respond to, and recover from the impacts of emergency events; ensuring the continuity of health services. There is a HEMBC team in each BC health authority. HEMBC-North deals specifically with Northern Health.

Roles and responsibilities:

- Maintain a 24-hour emergency/on call contact number for notification and activation of the health system in Northern BC
- Notify/activate the appropriate Northern Health programs (i.e. Public Health, Acute Care, etc.) based on the nature
 of the incident/emergency event

Northern Health (NH)

Northern Health is the regional health authority responsible for providing health services to 300,000 people over an area of 600,000 square kilometers in the province of British Columbia. Services include:

- Acute (hospital) Care
- Public Health (Protection, Preventive and Population Health services)
- Mental Health and Addictions
- Home and Community Care

In the event of a major emergency/disaster, Northern Health will provide health care services within its capacity, and will activate its emergency response management plan(s).

Roles & Responsibilities - PREPAREDNESS (PRE-EVENT):

- Participate with industry, local authority and other partners in the development of their Emergency Response Plans
 as it relates to health authority roles and responsibilities;
- Participate in stakeholder training and exercises associated with activation of an Emergency Response Plan, in which Northern Health or HEMBC have a role and responsibility (as resources allow);

Roles & Responsibilities - RESPONSE:

- Activate internal health emergency management plans related to ongoing provision of services (listed above);
- Provide acute care and emergency services at existing Northern Health hospitals/health centres;
- Work with BC Emergency Health Services (Ambulance) and the BC Patient Transfer Network to transport patients to the appropriate levels of care;
- Apply and enforce the Public Health Act, and associated regulations;
- Provide advice/information to the stakeholders on the existing or potential public health effects of an incident (including drinking water safety, air quality, environmental contaminants, communicable disease prevention, reoccupancy of evacuated areas, etc.);
- Provide advice/information on the best methods for monitoring health effects from an incident;
- Assist in development of (joint) messaging for public information on emergency incidents;
- Provide guidance to stakeholders and local authorities on public health considerations in operating reception and evacuation centres, and group lodging facilities



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.6 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID (CONTINUED)

2.1.6.3 Mutual Aid

Canadian Natural does not currently participate in any formal mutual aid agreements for this ERP; however, reciprocal emergency response assistance on a service level to other industrial operators may be possible in the event of an emergency, depending on equipment / personnel resources and availability.

Canadian Natural Operated Third Party Assets

In an emergency involving another licensee whose assets are operated by Canadian Natural as listed below, Canadian Natural would provide First Responder and other actions as needed to implement a safe and efficient emergency response, with an immediate notification to these well or pipeline licensees to activate their ERP / participate in a joint response:

THIRD PARTY LICENSEE	ERP NAME	EMERGENCY NUMBER
Enercapita Energy Ltd.		1-866-556-7838
Spartan Delta Corp.		1-403-266-8670

Non-Operated Third Party Tie In Assets

Where third party assets are tied into this plan's facility(ies) but not operated by Canadian Natural as listed below, the licensee will have their own ERP and would be responsible for emergency response actions involving their assets.

THIRD PARTY LICENSEE & OPERATOR	ERP NAME	EMERGENCY NUMBER
NA		



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.1.7 DRIVING DIRECTIONS AND MAP

2.1.7.1 Driving Route

CER PIPELINES: Driving directions to staging area location will be determined by field operations at time of incident.

From the Town of Worsley to Clearhills plant

•	
•	
•	
•	
•	
•	
•	
_	

_				
-rom	Fort St	.lohn	to ()	sh∩rn

- •
- •
- •

2.1.7.2 Proximity To Nearest Urban Centre

Worsley is located approximately

Fort St John is located approximately

2.1.7.3 Latitude and Longitude Coordinates

	FACILITY	LATITUDE (N)	LONGITUDE (W)
Clearhills	gas plant		
Osborne	compressor		



Revision 16-0 | March 31, 2023



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.2 EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS

PRESENT AT CLEARHILLS	TYPE	DESCRIPTION
Y	24-Hour Emergency Telephone Number	A 24-hour emergency number is posted at all facilities and pipeline crossings. Any operator, landowner or citizen can call to notify Canadian Natural of an emergency situation. On-call Canadian Natural personnel will take appropriate actions to manage the emergency.
Y	SCADA System	Supervisory Control and Data Acquisition (SCADA) — Electronic monitoring equipment on wells throughout the gathering system will transmit signals to a central control panel. SCADA systems trigger alarm and call-out systems and may have ESD capabilities.
Y	Alarm and Call-out Process	System monitoring equipment throughout facilities will trigger an alarm to an answering service that will use a call-out system to notify applicable operators.
Y	Aerial Surveillance	Pipelines may be surveyed on a regular basis to detect leaks.
Y	Landowner Complaint System	Landowners with concerns, or who have identified potential problems, can call the facility directly or the 24-hour emergency number.
Y	Operator Inspections	Operators do regular inspections of pipelines, wells and facilities and will report any abnormality they detect.
Y	24-Hour Manned Stations	Some Canadian Natural facilities are monitored 24 hours a day.
Y	H₂S Monitors – Continuous	Continuous H_2S monitoring equipment is strategically located at all sour facilities. Monitors are calibrated at regular intervals and are designed to activate a call-out procedure to operational personnel if H_2S levels are detected at the facility. If H_2S levels reach a predetermined level, the system is designed to activate the Emergency Shutdown (ESD) and shut down the facility.
Y	Gas Monitors – Handheld	Canadian Natural personnel are equipped with personal H ₂ S / LEL monitors for early detection.
Y	Gas Detection Equipment	Continuous Combustible Gas Detectors are located throughout the facility. The detectors alarm at 20% lower explosion limit (LEL). At 40% LEL, the detectors engage a facility shut down.
Y	Fire Detection Equipment	An ultraviolet fire detection system, "Fire Eyes," may be installed throughout facilities.
Y	Leak Detection System	Continuous monitoring systems are installed on several pipeline systems, including but not limited to water injection, oil emulsion and ESD risers. These systems can be based on different methodologies such as pipeline or differential pressure, pressure rate of change (ROC), flow rate imbalance, ROW monitoring, etc.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

2.3 COMMUNICATIONS

The primary means of communications between the Emergency Response Team personnel and the various Operations Centers / Command Posts will be by cellular telephone. Portable radios will be utilized if practical. Applicable radio frequencies are listed below.

2.3.1 COMMUNICATION EQUIPMENT

EQUIPMENT	COMMENT	
Cell Phone	Each operator has a cellular phone. Cell coverage in the area is reliable; however some dead spots may occur in lower lying area. In these cases, signals can be re-established by moving to higher ground.	
Two-Way Radios	Two-way radios are installed in all operator trucks with base radios on Clearhills channel as noted below	
Land Line	There is a land line at the facility – see Section 2.1.1	

2.3.2 RADIO FREQUENCIES

NAME	RECEIVE NUMBER	TRANSMIT NUMBER	
Clearhills			

2.4 SPILL RESPONSE

Canadian Natural has implemented company spill response trailers to supplement WCSS equipment caches and / or developed additional water control points for spill mitigation. Company and / or WCSS equipment and spill contingency plans will guide initial emergency response actions while long term spill containment and recovery activities will be performed by established spill response consultants / providers contracted and directed by Canadian Natural. A list of these providers can be found in Contract Services in Section 3.

NOTE: WCSS does not provide human resources for spill response however other neighboring industrial operators or other WCSS members may be of assistance.

For spill response, consult with Environmental Coordinator and applicable WCSS Spill Contingency manual. Also refer to CiNQ:

Corporate > Environmental Conventional-Thermal > Job Instructions > Spill Response Equipment and Contact List

For full spill response procedures, guidelines and methods see applicable WCSS Spill Contingency manual (recommended) or Procedure 5: Hazardous Product Release / Spill Control (SMS 22.05) on CiNQ or in purple tabbed Hazard Response Procedures section in the Corporate ERP.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 3: CONTACTS AND TELEPHONE LISTS

3.1	COMPA	MY EMERGENCY CONTACTS	1
3.2	MANDA	TORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART).	1
3.3	ROAD (CLOSURE CONTACTS	2
3.4	WATER	INTAKE CLOSURE CONTACTS	3
3.5	PROVIN	NCIAL GOVERNMENT CONTACTS	3
3.6	EMERG	SENCY SERVICE NUMBERS	4
3.7	TDG / L	PG EMERGENCY NUMBERS	5
3.8	MUNICI	PAL GOVERNMENT CONTACTS	5
3.9	FEDER.	AL GOVERNMENT CONTACTS	5
3.10	CONTR	ACT SERVICES	6
	3.10.1	Air Quality Monitoring (Mobile)	6
	3.10.2	Aircraft (Fixed Wing) Charters	6
		Communications Rental Equipment	
	3.10.4	Drone / UAV Operators	6
	3.10.5	Fresh Water Hauling	6
	3.10.6	Helicopters	6
	3.10.7	Safety Services	7
	3.10.8	Spill Response Equipment	7
	3.10.9	Well Blowout Control	7
	3.10.10	Western Canadian Spill Services (WCSS) Coop "8" & "9"	8



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

3 CONTACTS AND TELEPHONE LISTS

3.1 COMPANY EMERGENCY CONTACTS

POSITION	NAME	CELL	OFFICE
Area Foreman			
Assistant Foreman			
Operations Superintendent			
Area Safety & Compliance Coordinator			
Environmental Field Coordinator			
Surface Landman			
Manager, Corporate Safety & Emergency Mgmt			
Emergency Management Lead			
Fort St. John Field Operations Manager			
VP West Field Operations			
Calgary EOC - Bankers Hall East (BHE)			

3.2 MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART)

NAME		LOCATION TELEPHON		E	
BRITISH COLUMBIA					
FOR CER PIPELINE INCIDENTS, CALL:		For "Immediately Reportable Events" within three (3) hours of discovery:		24-Hour	1-819-997-7887
Transportation Safety Board (TSE *TSB will contact CER	3)	a) call TSB 24-Hour Ro and	eporting Hotline	https://apps.cer-rec.gc.ca/ers	
See Forms & Guidelines section, Corpo		b) report via OERS			
	Guideline 8: CER Event Reporting Guidelines		ithin 24 hours of		
NOTE:		a) report via OERS		https://apps.cer-rec.gc.ca/ers	
CER = Canada Energy Regulator OERS = CER's Online Event Reporting System		If OERS is unavailable, report by calling TSB 24-Hour Reporting Hotline			
Emergency Management BC (EMB	C)	For all emergen		es	1-800-663-3456
EMBC will contact BC Energy Regulator (BCER)			4-Hour Incident Reporting	
Use this number to also verbally report an Environmental Emergency (E2)		Province-Wide	* For E2 Emergency Reporting only:		ing only:
Written notice (Schedule 8) made via S ASAP by Environmental Coordinator Environment Canada notified by EMBC	WIM *		Single Window Information Management (SWIM) https://ec.ss.ec.gc.ca		
Peace River Regional District		Dawson Creek BC	Toll-free		1-800-670-7773
Health Emergency Management BC			24-Hour Emergen	cy On-Call	
(HEMBC)		Northern BC	Non-emergency inquiries only (HEMBC Director)		
RCMP		Fort St. John BC	24-Hour		9-1-1



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

NAME	LOCATI	ON	TEL	EPHONE	
ALBERTA					
FOR CER PIPELINE INCIDENTS, CALL:	For "Immediately Reportable Events" within three (3) hours of discovery:		24-Hour	1-819-997-7887	
Transportation Safety Board (TSB) *TSB will contact CER	P: For all other events, within 24 hours of discovery: a) report via OERS https://apps.cer-rec.		and https://apps.cer-rec.gc.ca/er		
See Forms & Guidelines section, Corporate ERP: Guideline 8: CER Event Reporting Guidelines NOTE: CER = Canada Energy Regulator OERS = CER's Online Event Reporting System			cer-rec.gc.ca/ers		
Energy & Environmental Response Line Alberta Environment / Alberta Energy Regulator (AER)	TSB 24-Hour Reporting	For all emergencies		1-800-222-6514	
Use this number to also verbally report an Environmental Emergency (E2) • Written notice (Schedule 8) made via SWIM * ASAP by Environmental Coordinator	Province-Wide	* For E2 Emergency Reporting only: Single Window Information Management		n Management	
Environment Canada notified by EMBC Clear Hills County	Worsley AB (SWIM) https://ec.ss.ec.gc.ca		c.gc.ca 780-835-8097		
Alberta Health Services * Ask for Environmental Public Health On Call	Province-Wide		24-Hour Email	7 00 000 0007	
RCMP: Fairview Detachment	Province Wide			9-1-1	

3.3 ROAD CLOSURE CONTACTS

Dispatch Roadblocks immediately and notify the following (no Closure Orders required for emergencies):

	ROAD TYPE	AGENCY TELEPHONE		ONE
	Provincial Highway / Roads (highways with 1, 2, 3 digits or local names)	RCMP / Local Police – advise of situation / request presence	24-Hour	9-1-1
		Traffic Management Centre BC advise of situation / pending roadblocks	24-Hour	1 866 707-7862
	or rood names,	3. Highway Maintenance Contractor	Argo Road Maint	1-800-663-7623
вс		 advise of situation / roadblock locations 	Dawson Road Maint	1-800-842-4122
	Petroleum Development	RCMP / local police advise of situation / roadblock locations; request presence	24-Hour	9-1-1
Roads (PDRS) Forestry Roads		2. Notify of closures as needed: - for PDRs, notify BC Energy Regulator (BCER) directly - for forestry roads, notify Ministry of Forests, LNRORD Resource District office SEE PROVINCIAL GOVERNMENT CONTACTS TABLE BELOW		
AB	- for major highways (1, 2 or 3 digit highways)	RCMP – advise of situation / roadblock locations; request presence	24-Hour Emergency	9-1-1
AB	- for other licensee PDRs and / or forestry roads	AER / Alberta Environment & Parks	24-Hour	1-800-222-6514



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

3.4 WATER INTAKE CLOSURE CONTACTS

** NOT APPLICABLE **

3.5 PROVINCIAL GOVERNMENT CONTACTS

NAME	LOCATION	ON TELEPHONE			
BRITISH COLUMBIA					
Emergency Management BC (EMBC) EMBC will contact BC Energy Regulator (BCER)		For all emergencies 24-Hour Incident Reporting	1-800-663-3456		
	Province Wide	* For E2 Emergency Reporting	only:		
For E2 emergencies, call and written report* required		Single Window Information Man https://ec.ss.ec.gc.ca	agement (SWIM)		
Forests, Lands, Natural Resource Operations & Rural Development	Fort Nelson NRD	Fort Nelson Office	250 774-5511		
(LNRORD), Ministry of Natural Resource Districts	Peace NRD	Dawson Creek Office	250-784-1200		
Health Emergency Management BC (HEMBC) Non-emergency inquiries only (HEMBC Director)	Northern BC	24-Hour Emergency On Call			
Highway Maintenance	Dawson Creek /	Emergency	1-800-663-7623		
Service Area 21 – South Peace Argo Road Maintenance (South Peace) Inc.	Pouce Coupe BC	Road & Weather Conditions: www.drivebc.ca			
Highway Maintenance		Emergency	1-800-842-4122		
Service Area 22 – North Peace Dawson Road Maintenance Ltd.	Fort St. John BC	Road & Weather Conditions: www.drivebc.ca			
Deposit a Wildfine	Province-Wide	24-Hour	1-800-663-5555		
Report a Wildfire	Province-vvide	Cell (Telus)	*5555		
Depart All Decembers and Delluters (DADD)	Dravinas Wide	24-Hour	1-877-952-7277		
Report All Poachers and Polluters (RAPP)	Province-Wide	Cell (Telus)	*7277		
WorkSafeBC (applicable BU/groups Safety Lead)	Province-Wide	Worksite Emergency 24-Hour	1-888-621-7233		

NAME	LOCATION	TELE	EPHONE	
ALBERTA				
Alberta EDGE – Center for TDG (Environmental and Dangerous Goods Emergencies)	Province-Wide	24-Hour	1-800-272-9600	
Alberta Emergency Management Agency (AEMA) Provincial Operations Centre (POC)	Province-Wide	24-Hour	1-866-618-2362	
Alberta Energy Regulator (AER) * notify when blocking petroleum development and / or forestry roads	Energy & Environmental	24- Hour	1-800-222-6514	
Alberta Environment and Parks * notify when blocking roads through or adjacent to Crown Land	Emergency or Complaint	24-11001	1-000-222-0314	



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

NAME	LOCATION	TELE	EPHONE
Alberta Environment & Parks		24-Hour	1-800-642-3800
Parks Fish and Wildlife	Report a Poacher	Telus Mobile	#3800
Land Water	Report a Wildfire	24-Hour	310- 3473 (FIRE)
Alberta Health Services	Duovine a Wide	24-Hour	
* Ask for Environmental Public Health On Call	Province-Wide	Email	
Alberta Transportation Provincial Highway Road Closures Support 1. call 9-1-1 / RCMP 2. call nearest Region / District Office Highway maintenance contractors are responsible for maintenance activities including highway patrolling and emergency duties Road& Weather Conditions: 511.alberta.ca	Grande Prairie District Office	Grande Prairie	780 538-5310
Occupational Health & Safety (applicable BU/groups Safety Lead)	Province-Wide	24-Hour	1-866-415-8690
Workers' Compensation Board	Province-Wide	24-Hour	1-866-922-9221

3.6 EMERGENCY SERVICE NUMBERS

SERVICE	LOCATION	TELEPHONE NUMBER				
BRITISH COLUMBIA						
RCMP	Fort St. John BC	24-Hour	9-1-1			
RCIVIP	FOIL St. JOHN BC	Office	250-787-8100			
Hospital	Fort St. John BC	24-Hour	250-262-5200			
		Emergency	9-1-1			
British Columbia Ambulance Service	Province-Wide	Toll Free	1-800-461-9911			
Colvido		Cell/ SAT Phone/ Outside BC	250-374-5937			
Fire Department	Fort St. John BC	24-Hour	9-1-1			
Fire Department	FOIL St. JOHN BC	Office	250-785-0800			
ALBERTA		ALL EMERGENCY SERV	ICES CALL 9-1-1			
RCMP	Grande Prairie AB	Office	780-830-5700			
Hospital	Grande Prairie AB	24-Hour	780-538-7100			
Ambulance	Grande Prairie AB	Office	780-513-5290			
Fire Department	Grande Prairie AB	Office	780-538-0393			



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

3.7 TDG / LPG EMERGENCY NUMBERS

NAME	CONTACT	TELEPHONE NUMBER		
FOR TDG EMERGENCIES				
Operations to contact ERAC only if carrier driver is unable to contact supervisor				
 Carrier is responsible for contacting ERAC ERAC will contact company on call contacts (Safety Leads) for ERAP activation ERAC will notify and report to Transport Canada 				
For Emergencies involving CNRL Propane & Butane Emergency Response Assistance Canada (ERAC) Canadian Natural ERAP Number:		24-Hour	1-800-265-0212	
For TDG emergencies other than CNRL Product - contact ERAC		24-Hour	1-800-265-0212	
		Toll free	1 888 226-8832	
For Information Only: CANUTEC		Call Collect	613 996-6666	
		Cell	*666	

3.8 MUNICIPAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE NUMBER	
Clear Hills County	Worsley AB	24-Hour	780-835-8097
Peace River Regional District	Dawson Creek BC	24-Hour	1-800-663-3456

3.9 FEDERAL GOVERNMENT CONTACTS

NAME	LOCATION CONTACT INFORMATION		T INFORMATION
FOR CER PIPELINE INCIDENTS, CALL:	For "Immediately Reportable Events" within three (3) hours of discovery:	24-Hour	1-819-997-7887
Transportation Safety Board (TSB) *TSB will contact CER	a) call TSB 24-Hour Reporting Hotline and b) report via OERS https://apps.cer-rec.gc.ca		s.cer-rec.gc.ca/ers
See Forms & Guidelines section, Corp ERP: Guideline 8: CER Event Reporting Guidelines	For all other events, within 24 hours of discovery:	https://apps.cer-rec.gc.ca/ers	
NOTE: CER = Canada Energy Regulator OERS = CER's Online Event Reporting System	a) report via OERS If OERS is unavailable, report by calling TSB 24-Hour Reporting Hotline		
Environment Canada	* will be notified by respective provincial govt agency – see Section 3.2		
Fisheries & Ocean Canada	Alberta, Manitoba, Saskatchewan, Northwest Territories 1 855 852-832		1 855 852-8320
Report damage to fish habitat – contact Fish and Fish Habitat Protection Program by province	British Columbia 1 866		1 866 845-6776
Health Canada Department of Indigenous Services Canada,	BC – FNIH First Nations Health Authority	Main	1-866-913-0033
Environmental Public Health Services First Nations & Inuit Health Branch	BC - EMBC (fanout)	24-Hour	1-800-663-3456
For emergencies impacting First Nations and Indigenous communities (see Section 4)	AB - Environmental Health Officer (EHO)	24-Hour	
Indigenous Services Canada (ISC) Aboriginal Affairs & Northern Development Canada	Toronto Office	Toll Free	1-800-567-9604
NAV Canada – Flight Info Centre (FIC) To issue a NOTAM, have ready (if possible): - GPS coordinates, height, time frame	Nation wide	Toll Free Call Centre	1-866-992-7433



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

3.10 CONTRACT SERVICES

COMPANY	LOCATION	TELEPHONE NUMBER		
3.10.1 AIR QUALITY MONITORING (MOBILE)				
Emergency Management BC/ British Columbia Energy Regulator (contact if no contract services are available)	Province-Wide, BC	24-Hour	1-800-663-3456	
Alberta Energy Regulator (contact if no contract services are available)	Province-Wide, AB	24-Hour	1-800-222-6514	
Brogan Safety - SO ₂ monitors	Dawson Creek, Fort St. John, Grande Prairie	Grande Prairie	780-539-9004	
Firemaster Oilfield Services Inc.	BC, AB, SK	24-Hour	1-877-342-3473	
HSE Integrated Ltd.	BC, AB, SK	24-Hour	1-888-346-8260	
Trojan Safety Services	BC, AB, SK	24-Hour	250-785-9557	
3.10.2 AIRCRAFT (FIXED WING) CH	HARTERS CONTACT CORPORATE TRAVEL		RATE TRAVEL	
3.10.3 COMMUNICATIONS RENTAL EQUIPMENT				
Expert Mobile	Grande Prairie	24-Hour	780-539-3962	
Vector Communications	Grande Prairie	24-Hour	780-532-2555	
3.10.4 DRONE / UAV OPERATORS (Alphabetically by location)				
First Alert Locating Ltd.	Grande Prairie	780-538-9936 866-538-9936		
Red Hawk UAV Inc	Grande Prairie	780-933-4807 redhawkuav@yahoo.ca		
Digital B Photography + Media	Dawson Creek, BC	250-719-7469 photos@digitalb.ca		
3.10.5 FRESH WATER HAULING				
High Gear Water Services	Grande Prairie	Office	780-518-0250	
3.10.6 HELICOPTERS				
Bailey Helicopters	Fort Nelson Fort St. John (Head Office)		1-877-822-2245	
Canadian Helicopters	Fort St. John, Grande Prairie	24 Hours Emergency – Western Canada	1-780-429-6900	
Yellowhead Helicopters	Fort St. John, BC		1-888-566-4401	



Revision 16-0 | March 31, 2023

COMPANY	LOCATION	TELEPHONE NUMBER		
3.10.7 SAFETY SERVICES				
Brogan Safety - SO ₂ monitors, etc	Dawson Creek, Fort St. John, Grande Prairie	Grande Prairie	780-539-9004	
Firemaster Oilfield Services Inc.	BC, AB, SK	24-Hour	1-877-342-3473	
HSE Integrated Ltd.	BC, AB, SK	24-Hour	1-888-346-8260	
Safety Boss Services	BC, AB	24-Hour	1-800-882-4967	
Trojan Safety Services	BC, AB, SK	24-Hour	250-785-9557	
United Safety Ltd.	BC, AB	24-Hour	1-800-432-1809	
3.10.8 SPILL RESPONSE EQUIPMEN	NT			
Clean Harbors	North America	24-Hour	1-800-645-8265	
EnviroHazmat Emergency Response	BC, AB	24-Hour	1-866-249-7583	
Gen7 Environmental Solutions	AB, SK	24-Hour	780-542-3676	
GFL Environmental	North America	24-Hour	1-866-417-2797	
Good Lands Environmental Inc.	MB, SK	Main After Hrs	204-634-2245 306-482-8151	
North Shore Environmental Consultants	BC, AB, SK	24-Hour	1-855-700-6732	
QM Environmental	BC, AB, SK, MB	24-Hour	1-877-378-7745	
Rapid Response Industrial Group	Canada-wide	24-Hour	1-844-774-4911	
	BC, AB	Fairview	780-835-2682	
Roy Northern Land and Environment		FSJ	250-261-6644	
		Terrace	250-635-6973	
SWAT Consulting	Canada-wide	24-Hour	1-866-610-7928	
Western Canadian Spill Services (WCSS)	See WCSS section		·	
3.10.9 WELL BLOWOUT CONTROL				
Firemaster Oilfield Services Inc.	BC, AB, SK	24-Hour	1-877-342-3473	
HSE Integrated Ltd.	BC, AB, SK	24-Hour	1-888-346-8260	
Safety Boss Inc.	BC, AB	24-Hour	1-800-882-4967	



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

COMPANY	LOCATION	TELEPHONE NUMBER		
3.10.10 WESTERN CANADIAN SPILL SERVICES (WCSS) COOP "8" & "9" 24-HOUR EMERGENCY CONTACT 1-866-541-8888 Refer to Section 2 Emergency Equipment subsection for Canadian Natural spill response trailers				
COOP "8"	- Canadan Natural		- 11411010	
James Barnhill Coop "8" Co-op Chairman		Cell Office	780-956-1814 780-956-8052	
James Barnhill Regional Equipment Custodian	Husky Oil Operations Yard / Rainbow Lake SE 10-10-109-08 W6M	Office	780-956-8052	
	Equipment Summary: - 20' ISRU Sea Can - Drum Skimmer w/ Power Pak	Cell	780-956-1814	
Bruce Muzichuk, Muzzy's Contracting Co-op Custodian	1072 Aspen Drive Zama City, AB <u>Equipment Summary:</u> - 20' ISRU Sea Can	Cell	780-926-9797	
CNRL Chinchaga Gas Plant Co-op Custodian	CNRL Chinchaga Gas Plant 1-24-96-05 W6M <u>Equipment Summary:</u> - 20' ISRU Sea Can	Don Jaeger	780-836-6223	
		Randy Matychuk	780-625-8642	
		Control Room	780-836-3364 ext. 25	
COOP "9"				
Carl Reimer, North River Midstream		Cell	250-262-8752	
Coop "9" Co-op Chairman		Office	250-262-3456	
Jason MacMillan, Clean Harbors Production Services Regional Equipment Custodian	Clean Harbors Surface Rentals 6715 – 85th Avenue Fort St. John, BC V1J 4J3 Equipment Summary:	Office	250-785-4577	
	- 52' OSCAR Trailer (semi-tractor) - 40' Boom Cache Sea Can - 20' Wildlife Sea Can - Work Boat - Drum Skimmer w/ Power Pak - Single Engine Barge - 400' Shallow Water Boom	Cell	250-224-7925	
Troyer Ventures Ltd Co-op Equipment Custodian	4850 – 46 Avenue Fort Nelson, BC V0C 1R0 <u>Equipment Summary:</u> - 20' ISRU Sea Can - Work Boat	24-Hour	(250) 774-5332	

NOTE: For spill response, consult with Environmental Coordinator. Also refer to CiNQ:

Corporate > Environmental Conventional-Thermal > Job Instructions > <u>Spill Response Equipment and Contact List</u>



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 4: PUBLIC NOTIFICATIONS

4.1	NOTIFI	CATION PROCEDURES	1
	4.1.1	Telephone Callers	1
	4.1.2	Automated Public Notification System (Not Applicable)	1
4.2	RECEF	TION CENTRE(S)	1
4.3	RESIDI	ENT / ORGANIZATION INFORMATION	1
4.4	SPECIA	AL CONSIDERATIONS FOR EMERGENCY RESPONSE	1
	4.4.1	Locating Transients and Recreational Users	1
	4.4.2	Recreation Area	2
4.5	SCHOO	DLS DIVISION(S) / SCHOOL(S)	2
4.6	INDUS	TRIAL OPERATOR(S)	2
4.7	TRAPP	ERS / GUIDE OUTFITTERS	3
4.8	GRAZII	NG LEASE(S) / RESERVE(S) AND OTHER LAND USE DISPOSITIONS	4
4.9	FORES	T MANAGEMENT AREA(S)	4
4.10	FIRST	NATIONS / INDIGENOUS NATIONS	4



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

4 PUBLIC NOTIFICATIONS

4.1 NOTIFICATION PROCEDURES

4.1.1 TELEPHONE CALLERS

If an emergency occurs that involves only a few residents within the EPZ, the Public Safety Supervisor will designate Telephone Callers to relay messages of notification, shelter-in-place or evacuation. Refer to the Public Safety Supervisor and Telephone Caller roles in the Corporate ERP for procedures and scripts. (Forms 15, 16, 17, and 18)

Once all calls are made, the Public Safety Supervisor will review the contacted public within the EPZ and dispatch Rovers for those who requested assistance or were not reached by the telephone callers.

4.1.2 AUTOMATED PUBLIC NOTIFICATION SYSTEM (NOT APPLICABLE)

NOT APPLICABLE FOR THIS AREA

4.2 RECEPTION CENTRE(S)

Reception Centres have been pre-arranged as noted below. The Reception Centre chosen to send residents to will be dependent on the site of the emergency and which route is the safest for evacuating residents out of the Emergency Planning Zone.

RECEPTION CENTRE	LOCATION	TELEPHONE NUMBER	
Dunvegan Inn & Suites	9812 – 113 Street Fairview AB T0H 1L0	Main	780-835-5100
Northern Grand Hotel & Conference Centre			250-787-0521
Worsley Gateway Inn	355 Secondary Hwy 726 Worsley AB T0H 3W0	Main	780-685-2080

4.3 RESIDENT / ORGANIZATION INFORMATION

Confidential information, if applicable, is only included in the main responders' Emergency Response Plans at the end of this Section.

4.4 SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE

4.4.1 LOCATING TRANSIENTS AND RECREATIONAL USERS

In an emergency situation, aerial surveillance should be considered for sweeping the area to look for individuals such as non-resident landowners, snowmobilers, hunters, backpackers, skiers or any other recreational transient activity. Helicopters and fixed wing contractors are listed in Contract Services Section under the Site Specific Emergency Contacts Tab in the manual.

NOTE: Helicopters only fly during daylight hours; an emergency situation that happens at night will require the services of the fixed wing company.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

4.4.2 RECREATION AREA

There are various recreation sites inside the Emergency Planning Zones that should be checked to ensure that there are no members of the public on-site:

RECREATION TYPE	ERP MAP QUADRANT	LOCATION
Unnamed lake	Not available	

4.5 SCHOOLS DIVISION(S) / SCHOOL(S)

In the event of an emergency, the school division(s) listed below must be contacted. General school division policy defines that in an emergency situation, each division is responsible for children attending their schools until their parents / guardians are located. Private schools must be contacted directly. School children living within the EPZ attend the following schools:

SCHOOL DIVISION	TELEPHONE NUMBER	SCHOOL NAME
There are no school		
divisions affected by this ERP		

4.6 INDUSTRIAL OPERATOR(S)

If an industrial operator is the first person to identify a problem or emergency involving Canadian Natural Facilities, their response will be to notify Canadian Natural immediately. If Canadian Natural personnel are the first people to identify a problem or an emergency, they will immediately notify all industrial operators within the determined EPZ. Whether or not assistance will be given by neighbouring industrial operators will depend on the resources of the company at the time. The following companies operate in the Emergency Planning Zone.

INDUSTRIAL OPERATOR NAME	OPERATIONS DESCRIPTION	RATIONS DESCRIPTION TELEPHONE NU	
TC Energy (formerly	If TC Energy is an operator in the area, EMAIL PIP to		
TransCanada)	Pipelines	24-Hour Emergency	1-888-982-7222
Advantage Oil & Gas Ltd.	Wells/Pipelines	24-Hour Emergency	1-866-266-5623
AltaGas	Gas plant in the area	24-Hour Emergency	1-866-826-3830
Arc Resources Ltd.	Pipelines in the area	24-Hour Emergency	403-292-0434
Blue Sky Resources Ltd.	Pipelines in the area	24-Hour Emergency	1-844-514-2462
Bonavista Energy Corp	Wells/Pipelines	24-Hour Emergency	1-866-971-8317
BP Canada Energy Group	Wells/Pipelines	Main	403-233-1313
Conocophillips Canada Resources Corp.	Pipelines in the area	Main	403-233-4000
Enercapita Energy Ltd.	Pipelines in the area	Main	1-866-556-7838
Husky Oil Operations Limited (Cenovus)	Wells/Pipelines	24-Hour Emergency	1-877-458-8080



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

INDUSTRIAL OPERATOR NAME	OPERATIONS DESCRIPTION	TELEPHONE NUMBER	
North River Midstream Inc.	Pipelines in the area	24-Hour Emergency	1-844-667-8477
Nova Gas Transmission Ltd. (Refer to TC Energy)	Pipelines in the area	24-Hour Emergency	1-888-982-7222
ORLEN Upstream Canada Ltd.	Pipelines in the area	24-Hour Emergency	1-866-835-6132
Pembina Pipeline Corporation	Pipelines in the area	24-Hour Emergency	1-800-360-4706
Ridgeback Resources Inc.	Pipelines in the area	24-Hour Emergency	1-866-413-7800
Spartan Delta Corp.	Wells/Pipelines	24-Hour Emergency	1-403-266-8670
Tourmaline Oil Corp.	Wells/Pipelines	24-Hour Emergency	1-877-504-4252

4.7 TRAPPERS / GUIDE OUTFITTERS

The following information has been updated from the most current provincial government database. Where applicable, "N/A" indicates the information was 'not available' in this database (confidentiality laws) nor was available via data searches or public consultations. Rovers will be dispatched to search the area for transient activity when required.

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

4.8 GRAZING LEASE(S) / RESERVE(S) AND OTHER LAND USE DISPOSITIONS

The following information has been updated from the most current provincial government database. Where applicable, "N/A" indicates the information was 'not available' in this database (confidentiality laws) nor was available via data searches or public consultations. Rovers will be dispatched to search the area for transient activity when required.

Land Use Disposition Types

FDL	Farm Development Lease	GRP	Grazing Permit	GRL	Grazing Lease
FGL	Forestry Grazing License	GRR	Provincial Grazing Reserve		

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER
N/A			

4.9 FOREST MANAGEMENT AREA(S)

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER
N/A			

4.10 FIRST NATIONS / INDIGENOUS NATIONS

FIRST NATIONS COMMUNITY / SETTLEMENT						
NAME CONTACT TELEPHONE NUMBER DESCRIPTION						
There are no known First Nations dwellings / communities located within or immediately adjacent to the EPZ.						
	CONTACT	CONTACT TELEPHONE NUMBER				

LOCAL INDIGENOUS NATION / BAND					
NAME	TELEPHONE NUMBER	DESCRIPTION			
NA	There are no known local Indigenous nation lands impacted by the EPZ(s).				



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 5: GATHERING SYSTEM INFORMATION

5.1	FACILI	TY INFORMATION	. 1
	5.1.1	Facility Summary	. 1
	5.1.2	Emergency Control Systems	. 1
5.2	FACILI [*]	TY, PIPELINE AND WELL INFORMATION	. 2
	5.2.1	Facility Release Rates and Emergency Planning Zones	. 2
	5.2.2	Pipeline List Legend	. 3
	5.2.3	Pipeline Release Volumes and Emergency Planning Zones	. 4
	5.2.4	Well Release Rates and Emergency Planning Zones	. 4



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

5 GATHERING SYSTEM INFORMATION

5.1 FACILITY INFORMATION

5.1.1 FACILITY SUMMARY

FACILITY NAME	Clearhills
FACILITY TYPE	Gas plant
FACILITY LICENSE	
FACILITY CODE	
LEGAL DESCRIPTION	
FACILITY DESCRIPTION	

5.1.2 EMERGENCY CONTROL SYSTEMS

TYPE	NTS LOCATION	LAT (Decimal Degrees)	LONG (Decimal Degrees)	EASTING (UTM NAD 83)	NORTHING (UTM NAD 83)	UTM ZONE	NOTES
BRITISH CO	OLUMBIA						
ESD							

TYPE	LOCATION	NOTES
ALBERTA		
ESD		
CV		
CV		
ESD		



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

5.2 FACILITY, PIPELINE AND WELL INFORMATION

5.2.1 FACILITY RELEASE RATES AND EMERGENCY PLANNING ZONES

LOCATION	FACILITY TYPE	FACILITY LICENSE	FACILITY CODE	SUB	STAT	H ₂ S REL VOL (m ³)	EPZ (m)	E2* EPZ (m)			
ALBERTA	ALBERTA										
	Battery						950				
	Compressor station						950				
	Battery						270				
	Gas processing plant						2500				
	Gas gathering system						2500				
	Gas gathering system						2500	1600			
BRITISH COLUMBIA	4										
	Compressor station						1184				

^{* &}quot;E2" = chemical storage container as defined by CEPA regulations



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

5.2.2 PIPELINE LIST LEGEND

	LEGEND	SUBSTANCE / SUB			STATUS / STAT	F	ROM FACILITY (FAC) / TO FACILITY (FAC)
LICENSE	License Number	OE	Oil Effluent	0	Operational	PL	Pipeline
LINE	Line Number	FG	Fuel Gas	Р	To Be Constructed	WE	Well
OD	Outer Diameter (mm)	NG	Natural Gas	D	Discontinued	GP	Gas Processing Plant
WT	Wall Thickness (mm)	sw	Salt Water	s	Suspended	IP	Injection / Disposal Facility
МОР	Max Operating Pressure (kPa)	LV	Low Vapour Pressure Products			RI	River
LENGTH	Length of Segment (km)	СО	Crude Oil			LA	Lake
H ₂ S	Licensed Hydrogen Sulphide (mol / kmol)	FW	Fresh Water				Satellite
REL VOL	Total H ₂ S Volume Between ESDs (m ³)	SG	Sour Gas			СК	Creek
IIZ	Initial Isolation Zone (km) – <i>applicable only for Alberta</i>					BE	Blind End
SET EPZ	Emergency Planning Zone (m)		H ₂ S CONVE	ERSIG	ON:	В	Battery
ESD	Emergency Shut Down Valve		1% = 10 mol / kmc	ol = 10	,000 ppm	cs	Compressor Station
cv	Check Valve					MS	Meter Station

NOTE: Abandoned assets are not included. No sweet natural gas, fuel gas or water pipelines have been included in the following list(s) with the exception of any Canadian Natural Canada Energy Regulator (CER) regulated lines in operation.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

5.2.3 PIPELINE RELEASE VOLUMES AND EMERGENCY PLANNING ZONES

NOTES: • Pipelines are sorted by From Location

* CER REGULATED PIPELINES:

For any emergency involving CER regulated pipelines, contact Transportation Safety Board (TSB) first – they will contact the CER. Contact the applicable provincial authorities with a courtesy call. Refer to TSB / CER contact information / reporting requirements in Section 3.9 Federal Government Contacts.

Provincial LICENSE CER Order Number	Line	Licensee	Sub	Stat	From (Fac)	To (Fac)	OD (mm)	WT (mm)	MOP (kPa)	H ₂ S (mol / kmol)	Length (km)	H ₂ S Rel Vol (m ³)	IIZ (m)	Set EPZ (m)
	-												190	702
AB: BC: **CER:													150	1184
AB: BC: **CER:													-	470

5.2.4 WELL RELEASE RATES AND EMERGENCY PLANNING ZONES

NOTES: • No well information required



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 6: MAPS & PUBLIC INFORMATION PACKAGE

6.1	SITE SPECIFIC ERP MAP	1
6.2	PUBLIC INFORMATION PACKAGE	1



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

6 MAPS & PUBLIC INFORMATION PACKAGE

6.1 SITE SPECIFIC ERP MAP

An area map showing the gathering system and facilities, surface development (roads, petroleum facilities, petroleum operators and industrial camps, trappers and guide outfitter cabins, as well as known public facilities / areas where the public may gather on a regular basis) within the Emergency Planning Zone (EPZ) and the surrounding area is included within this section.

If applicable, calculated EPZs for production assets are identified on the map as "yellow" shaded areas.

A pre-determined Environmental Emergency (E2) worst case scenario EPZs are identified on the map as the "pink" shaded areas if applicable.

6.2 PUBLIC INFORMATION PACKAGE

A Public Information Package will only be included if assets located in British Columbia have been incorporated into this Site Specific ERP. The following stakeholders who are impacted by an Emergency Planning Zone have been offered an information package as part of the consultation process if applicable:

- Local Indigenous Nation(s)
- Residents / Businesses
- Public Facilities
- Local Airport Operators
- Registered Trappers / Guide Outfitters
- Grazing Lease Holders
- Grazing Reserves
- Forestry Management Areas
- Rights Holders

Map(s) Redacted - CER Order AO-001-MO-006-2016, s. 1.a.ii.

- Facility / Pipeline technical information, disclosure of which would risk security



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 7: CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) 1999 – ENVIRONMENTAL EMERGENCY (E2) PLAN PRINCIPLES

7.1	INTRODUCTION1
	SCOPE1
7.3	SUBSTANCE DATA & EMERGENCY PLANNING ZONE (EPZ)
7.4	TRAINING & EXERCISES



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

7 CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) 1999 – ENVIRONMENTAL EMERGENCY (E2) PLAN PRINCIPLES

7.1 INTRODUCTION

This area specific plan and information contained herein, when used in conjunction with Canadian Natural's Corporate Emergency Response Plan (ERP) establishes an appropriate level of preparedness and response capability for CEPA regulated substances. It meets the requirements of the Environment and Climate Change Canada (ECCC) Environmental Emergency Regulations (E2 Regulations) which came into effect August 24, 2019.

7.2 SCOPE

The E2 Emergency Response Plan provides emergency response guidance for:

- Stationary tank incidents involving Canadian Natural's owned product and locations as required under the Canadian Environmental Protection Act (CEPA)
- Transportation emergencies as required under the Transportation of Dangerous Goods (TDG) Act

7.3 SUBSTANCE DATA & EMERGENCY PLANNING ZONE (EPZ)

Based on the E2 Regulations, the regulated substance(s) located at this facility include:

Substance	Location	Latitude	Longitude	UN#	CAS Registry #	Maximum expected quantity at any time during calendar year	Maximum Capacity of largest container system where substance is stored	Hazard Category	Worst Case Scenario EPZ * (m)
Natural Gas Condensate									1600
NGL / LPG / LNG (Propane)									1600

^{*} For Emergency Response Procedures based on incident type, see Section 8.0 of this ERP

7.4 TRAINING & EXERCISES

See Canadian Natural's Corporate Emergency Response Plan (ERP), Section 7.0 Plan Principles and Manual Maintenance. Exercises are held based on E2 Regulations. Annual tabletop exercises are held annually while major full scale exercises are held every 5 years.

^{*} NGL / LPG / LNG = Natural Gas Liquids / Liquefied Petroleum Gas / Liquefied Natural Gas



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

SECTION 8: On Site E2 Regulated Substance(s) Overview & Response Procedures

8.1	NATUE	RAL GAS CONDENSATE	1
	8.1.1	Characteristics – Fire or Explosion	1
	8.1.2	Health Impacts	1
	8.1.3	Facility Overview	
		8.1.3.1 Facility Plot Plan –	2
		8.1.3.2 Description of Industrial Processes Involving Regulated Substance	2
		8.1.3.3 Containment System	2
	8.1.4	Summary of Identified Environmental Emergencies	2
		8.1.4.1 Worst Case Scenario	2
		8.1.4.2 Alternate Worst Case Scenario	3
	8.1.5	Emergency Response Procedures	3
	8.1.6	Recovery / Restoration	4
8.2	NGL / I	LPG / LNG – PROPANE	5
	8.2.1	Characteristics	5
	8.2.2	Health Impacts	5
	8.2.3	Facility Overview	5
		8.2.3.1 Facility Plot Plan –	5
		8.2.3.2 Description of Industrial Processes Involving Regulated Substance	6
		8.2.3.3 Containment System	6
	8.2.4	Summary of Identified Environmental Emergencies	6
		8.2.4.1 Worst Case Scenario	6
		8.2.4.2 Alternate Worst Case Scenario	6
	8.2.5	Emergency Response Procedures	6
	826	Recovery / Restoration	8



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

8 ON SITE E2 REGULATED SUBSTANCE(S) OVERVIEW & RESPONSE PROCEDURES

8.1 NATURAL GAS CONDENSATE

8.1.1 CHARACTERISTICS - FIRE OR EXPLOSION

- > HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames
- Vapours may form explosive mixtures with air
- Vapours may travel to source of ignition and flash back
- Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapour explosion hazard indoors, outdoors or in sewers
- Runoff to sewer may create fire or explosion hazard
- Containers may explode when heated
- > Many liquids will float on water
- Substance may be transported hot

8.1.2 HEALTH IMPACTS

CAUTION: Petroleum crude oil (UN1267) may contain TOXIC hydrogen sulphide gas

- Inhalation or contact with material may irritate or burn skin and eyes
- > Fire may produce irritating, corrosive and / or toxic gases
- Vapours may cause dizziness or suffocation
- > Runoff from fire control or dilution water or spill may cause pollution
- May be harmful to aquatic life

NOTE: Access Canadian Natural's sdsBinders () for the most current Safety Data Sheet (SDS)



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

8.1.3 FACILITY OVERVIEW

8.1.3.1	Facility Plot Plan –	

8.1.3.2 Description of Industrial Processes Involving Regulated Substance

Natural gas condensate ("condensate") is stored at the above location and in quantities as outlined in Section 7. The natural gas condensate is produced by gathering system and sent to tanks from condensate stabilizer and is trucked out of site.

8.1.3.3 Containment System

The containment system is comprised of three tanks. The tanks are interconnected with manual valve. Secondary containment is on site for the tanks.

8.1.4 SUMMARY OF IDENTIFIED ENVIRONMENTAL EMERGENCIES

8.1.4.1 Worst Case Scenario

The worst-case scenario of a BLEVE explosion with subsequent off-site blast and heat radiation effects will be used for Canadian Natural facilities storing CEPA regulated substances.

The worst-case scenario is based on an adopted EPZ of 1,600 m. This is the standard hazard zone applied to Canadian Natural facilities where organic compounds such as ethane, propane, butane, pentane and octane are stored at maximum quantities below 650 tonnes.

To determine this standard, the ALOHA software (ver 5.4.7) and several scenarios using different tank capacities was used to model the release rates or distances to overpressure endpoints for these flammable and / or explosive substances. The scenarios assumed a) BLEVE explosions that consumed the maximum quantity of substances stored in the largest container system and b) subsequent fire (thermal radiation). The resulting models demonstrate a maximum of 650 tonnes with an EPZ of 1,600 m. This EPZ is equivalent to thermal radiation of 5.0 kW/m that will cause second degree burns within 60 seconds.



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

DISCLAIMER: Given the considerable number of Canadian Natural facilities that may periodically store these products throughout the western provinces, this worst-case scenario will be assigned to those sites unless 1) there is more than 650 tonnes of product stored in one container / container system or 2) there is a need to reduce the EPZ (i.e. product stored on site is significantly less than 650 tonnes and the standard 1,600 m EPZ impacts a heavily populated area). In both these cases, the modelling will be recalculated using the site specific data and the resulting EPZ applied to the plan.

8.1.4.2 Alternate Worst Case Scenario

Reasonable alternative worst-case scenarios were identified through a risk analysis of scenarios provided by field operations. Canadian Natural assumes the full tank amount leaks from the tank and is ignited in a pool fire. Modeling was conducted for ethane, propane, butane, pentane, and octane and given a 650 tonne tank, the adopted alternative EPZ is 800m.

8.1.5 EMERGENCY RESPONSE PROCEDURES

* Transport Canada Emergency Response Guidebook

PUBLIC SAFETY

- > Call 9-1-1. Isolate spill or leak area immediately for at least 50 meters (150 feet) in all directions
- Keep unauthorized personnel away
- Stay upwind
- Keep out of low areas
- Ventilate closed spaces before entering but only if properly trained and equipped

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA)
- > Structural firefighters' protective clothing provides thermal protection but only limited chemical protection

EVACUATION - Large Spill

Consider initial downwind evacuation for at least 300 meters (1000 feet)

EVACUATION - Fire

➤ If tank, rail car or tank truck is involved in a fire, **ISOLATE** for 1600 meters (1 mile) in all directions; also consider initial evacuation for 1600 meters (1 mile) in all directions

FIRE RESPONSE

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be insufficient.

Small Fires

Dry chemical, CO₂, water spray or regular foam

Large Fires

- Water spray, fog or regular foam
- Avoid aiming straight or solid streams directly onto the product
- > If can be done safely, move undamaged containers away from the area around the fire

Fire Involving Tanks or Car / Trailer Loads

- > Fight fire from a maximum distance or use unmanned hose holder or monitor nozzles
- > Cool containers with flooding quantities of water until well after the fire is out
- > For petroleum crude oil, do not spray water directly into a breached tank car. This can lead to a dangerous boil over
- Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank
- ALWAYS stay away from tanks engulfed in flames



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

> For massive fire, use unmanned hose holder or monitor nozzles; if this is not possible, withdraw from the area and let fire burn

SPILL OR LEAK

- > ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area
- All equipment used when handling the product must be grounded
- > Do not touch or walk through spilled material
- > Stop leak if you can do it without risk
- Prevent entry into waterways, sewers, basements or confined areas
- > A vapour suppressing foam may be used to reduce vapours
- > Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers
- Use clean non-sparking tools to collect absorbed material

Large Spill

- Dike far ahead of liquid spill for later disposal
- > Water spray may reduce vapour but may not prevent ignition in closed spaces

FIRST AID

- CALL 9-1-1 or emergency medical service
- > Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
- Move victim to fresh air if it can be done safely
- Give artificial respiration if victim is not breathing
- Administer oxygen if breathing is difficult
- Remove and isolate contaminated clothing and shoes
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes
- Wash skin with soap and water
- ➤ In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim warm and quiet

8.1.6 RECOVERY / RESTORATION

As soon as possible following an E2 emergency involving this substance, Canadian Natural will develop, in cooperation with local governments and other impacted stakeholders as required, a plan for the recovery and restoration of the site to a condition that is reasonably safe and acceptable and situation-specific.

Canadian Natural will be responsible for this project which will include but is not limited to:

- Post incident investigation and evaluation, including but not limited to:
 - o emergency response Debrief Report
 - o preservation of evidence
 - root cause analysis
 - other Company incident investigation protocols
- Stakeholder post incident notification and engagement damage assessment and communication
- Support of stakeholder recovery protocols including Critical Incident Stress Debriefings if required
- Site restoration including disposal / waste management (resources to be determined as needed)



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

8.2 NGL / LPG / LNG - PROPANE

CHARACTERISTICS 8.2.1

- > EXTREMELY FLAMMABLE
- Will be easily ignited by heat, sparks or flames
- Will form explosive mixtures with air
- Vapours from liquefied gas are initially heavier than air and spread along the ground
- Vapours may travel to source of ignition and flash back
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices
- Containers may explode when heated
- Ruptured cylinders may rocket

8.2.2 HEALTH IMPACTS

- Vapours may cause dizziness or asphyxiation without warning
- Some vapours may be irritating if inhaled at high concentrations
- Contact with gas or liquefied gas may cause burns, severe injury and / or frostbite

Fire may produce irritating and / or toxic gases	
NOTE: Access Canadian Natural's sdsBinders (Sheet (SDS)) for the most current Safety Data
8.2.3 FACILITY OVERVIEW	
8.2.3.1 Facility Plot Plan –	



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

8.2.3.2 Description of Industrial Processes Involving Regulated Substance

Propane is stored at the above location and in quantities as outlined in Section 7. NGL - propane is produced by gathering system and either shipped via pipeline to Pembina or trucked to CNRL

8.2.3.3 Containment System

Two bullets are on site interconnected with manual valve, vessel protection systems are in place for these bullets

8.2.4 SUMMARY OF IDENTIFIED ENVIRONMENTAL EMERGENCIES

8.2.4.1 Worst Case Scenario

The worst-case scenario of a BLEVE explosion with subsequent off-site blast and heat radiation effects will be used for Canadian Natural facilities storing CEPA regulated substances.

The worst-case scenario is based on an adopted EPZ of 1,600 m. This is the standard hazard zone applied to Canadian Natural facilities where organic compounds such as ethane, propane, butane, pentane and octane are stored at maximum quantities below 650 tonnes.

To determine this standard, the ALOHA software (ver 5.4.7) and several scenarios using different tank capacities was used to model the release rates or distances to overpressure endpoints for these flammable and / or explosive substances. The scenarios assumed a) BLEVE explosions that consumed the maximum quantity of substances stored in the largest container system and b) subsequent fire (thermal radiation). The resulting models demonstrate a maximum of 650 tonnes with an EPZ of 1,600 m. This EPZ is equivalent to thermal radiation of 5.0 kW/m that will cause second degree burns within 60 seconds.

DISCLAIMER: Given the considerable number of Canadian Natural facilities that may periodically store these products throughout the western provinces, this worst-case scenario will be assigned to those sites unless 1) there is more than 650 tonnes of product stored in one container / container system or 2) there is a need to reduce the EPZ (i.e. product stored on site is significantly less than 650 tonnes and the standard 1,600 m EPZ impacts a heavily populated area). In both these cases, the modelling will be recalculated using the site specific data and the resulting EPZ applied to the plan.

8.2.4.2 Alternate Worst Case Scenario

Reasonable alternative worst-case scenarios were identified through a risk analysis of scenarios provided by field operations. Canadian Natural assumes the full tank amount leaks from the tank and is ignited in a pool fire. Modeling were conducted for ethane, propane, butane, pentane, and octane and given the 650 tonnes tank the adopted alternative EPZ is 800m.

8.2.5 EMERGENCY RESPONSE PROCEDURES

* Transport Canada Emergency Response Guidebook

PUBLIC SAFETY

- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions
- Keep unauthorized personnel away
- > Stay upwind, uphill and / or upstream
- Many gases are heavier than air and will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.)

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

EVACUATION

Immediate precautionary measure – isolate spill or leak area for at least 100 meters (330 feet) in all directions

EVACUATION – Large Spill

Consider initial downwind evacuation for at least 800 meters (1/2 mile)

EVACUATION - Fire

- ➤ If tank, rail car or tank truck is involved in a fire, **ISOLATE** for 1600 meters (1 mile) in all directions; also consider initial evacuation for 1600 meters (1 mile) in all directions
- ➤ In fires involving Liquefied Petroleum Gases (LPG) (UN1075), Butane (UN1011), Butylene (UN1012), Isobutylene (UN1055), Propylene (UN1077), Isobutane (UN1969), and Propane (UN1978), also refer to **THE FOLLOWING**:

Boiling Liquid Expanding Vapour Explosion (BLEVE)

- If safe to do so, attempt to extinguish any fires before they come in contact with any storage bullets
- Call applicable service provider (i.e. FireMaster, etc.) to obtain assistance with fire suppression
- Ensure all responders are made aware of the hazards
- Evacuate all personnel and isolate area to a 1600 m radius
- Evaluate tank from a safe distance away. Choose an upwind position to side of tank if possible
- Flowing water can be used to cool tanks in order to prevent or delay a BLEVE; however, this requires a significant amount of water and should not be attempted unless an unlimited water supply can be located and tank can be approached safely
- Leave area immediately if you hear a hissing sound from venting safety devices or see discoloration of the tank

FIRE RESPONSE

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED

Small Fires

> Dry chemical or CO2

Large Fires

- Water spray or fog
- If it can be done safely, move undamaged containers away from the area around the fire
- CAUTION: For LNG Liquefied natural gas (UN 1972) pool fires, DO NOT USE water. Use dry chemical or high-expansion foam.

Fire Involving Tanks

- > Fight fire from a maximum distance or use unmanned master stream devices or monitor nozzles
- Cool containers with flooding quantities of water until well after the fire is out
- > Do not direct water at the source of leak or safety devices; icing may occur
- > Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank
- ALWAYS stay away from tanks engulfed in fire
- > For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from the area and let fire burn

SPILL OR LEAK

- > ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area
- All equipment used when handling the product must be grounded
- Do not touch or walk through spilled material
- > Stop leak if you can do it without risk
- If possible, turn leaking containers so that the gas escapes rather than fluid



Revision 16-0 | March 31, 2023

24-Hour Emergency 1-888-878-3700

- > Use water spray to reduce vapours or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material
- > Do not direct water at spill or source of leak
- > CAUTION: For LNG Liquefied natural gas (UN 1972), DO NOT apply water, regular or alcohol-resistant foam directly on spill. Use a high-expansion foam if available to reduce vapors.
- Prevent spreading of vapours through sewers, ventilation systems and confined areas
- Isolate area until gas has dispersed
- > CAUTION: When in contact with refrigerated / cryogenic liquids, many materials become brittle and are likely to break without warning

FIRST AID

- CALL 9-1-1 or emergency medical service
- > Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves
- Move victim to fresh air if it can be done safely
- Give artificial respiration if victim is not breathing
- > Administer oxygen if breathing is difficult
- Remove and isolate contaminated clothing and shoes
- > Clothing frozen to the skin should be thawed before being removed
- > In case of contact with liquefied gas, thaw frosted parts with lukewarm water
- > In cases of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin
- Keep victim calm and warm

8.2.6 RECOVERY / RESTORATION

As soon as possible following an E2 emergency involving this substance, Canadian Natural will develop, in cooperation with local governments and other impacted stakeholders as required, a plan for the recovery and restoration of the site to a condition that is reasonably safe and acceptable and situation-specific.

Canadian Natural will be responsible for this project which will include but is not limited to:

- Post incident investigation and evaluation, including but not limited to:
 - emergency response Debrief Report
 - o preservation of evidence
 - root cause analysis
 - o other Company incident investigation protocols
- Stakeholder post incident notification and engagement damage assessment and communication
- Support of stakeholder recovery protocols including Critical Incident Stress Debriefings if required
- > Site restoration including disposal / waste management (resources to be determined as needed)