



Canadian Natural

CANADIAN NATURAL RESOURCES LIMITED

GRIZZLY / THUNDER / OJAY

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

November 30, 2022

Canadian Natural Resources Limited
24 Hour Emergency Number

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/DD) ERP Planner	Rev	Revision Details	Annual Update (Y / N)	Date inserted in ERP (YYYY/MM/DD)	Inserted / Replaced by (Name & Signature)
2022/11/30 	16-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2021/11/30 	15-0	<ul style="list-style-type: none"> Converted ERP to new template All emergency contact information verified and updated. Map updated to reflect all changes Contacted all area residents/ businesses and updated information 	Y		
2020/11/30 	14-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2019/11/29 	13-0	<ul style="list-style-type: none"> Changed NEB to CER Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2018/10/30 	12-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2017/10/30 	11-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2016/03 	10-1	<ul style="list-style-type: none"> Incorporated additional information as required by the CER Added one recently acquired CER pipeline 	N		
2015/10/30 	10-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		
2015/04 	9-2	<ul style="list-style-type: none"> Rev. National Energy Board (NEB), Transportation Safety Board (TSB) and Emergency Response Assistance Canada (ERAC) Information Update Updated external distribution list for CER from three hard copies to one hard copy and one electronic copy Updated NEB contact information 	N		

EMERGENCY RESPONSE PLAN

GRIZZLY/ THUNDER/ OJAY

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

AMENDMENT RECORD

Date (YYYY/MM/DD) ERP Planner	Rev	Revision Details	Annual Update (Y / N)	Date inserted in ERP (YYYY/MM/DD)	Inserted / Replaced by (Name & Signature)
		<ul style="list-style-type: none"> Updated TSB contact Information Amended TDG/LPGS emergency corporation name from LPG Emergency Response Corp. to ERAC 			
2015/01 [Redacted]	9-1	<ul style="list-style-type: none"> Added 2 National Energy Board (NEB) pipelines to pipeline list Added CER to distribution list 	N		
2014/10/30 [Redacted]	9-0	<ul style="list-style-type: none"> Reviewed gathering systems and updated EPZ calculations- included wells and associated pipelines acquired from Apache (Ojay area ERP) Map updated to reflect all changes Contacted all area residents/ businesses and updated information All emergency contact information verified and updated. 	Y		

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

AREA NAME	LOCATION	DESCRIPTION	REGULATOR ERP ID
Belcourt		Sour Production	BC OGC ERP ID #
Grizzly North		Sour Production	
Grizzly South		Sour Production	
Little Prairie		Sour Production	
Narraway / Ojay		Sweet Production	
Ojay		Sour Production	
Ojay East		Sweet Production	
Ojay Main		Sour Production	
Ojay North		Sour Production	
Ojay West		Sour Production	
Thunder		Sweet Production	
Triad		Sour Production	
CER Regulated Pipeline		Natural Gas Pipeline	CER ERP ID #
CER Regulated Pipeline		Natural Gas Pipeline	
CER Regulated Pipeline		Natural Gas 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

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
 - 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
 - 2.3.2.1 CNRL South District Road Channels
 - 2.3.2.2 CNRL Road Frequencies
 - 2.3.2.3 CNRL Tumbler Voice Communication Channels
 - 2.3.2.4 SNRI VHF Mobiles - CDM1550 LS+
 - 2.3.2.5 SNRI UHF Portables - XPR 6350 Codeplug
 - 2.3.2.6 BC RR Channels
- 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 Haulers
- 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 9 & Coop 5

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 INFORMATION

4.4 BUSINESS / PUBLIC FACILITY INFORMATION

4.5 SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE

- 4.5.1 Locating Transients and Recreational Users
- 4.5.2 Mountain Man Guide Outfitter Services
- 4.5.3 Argo Road Maintenance
- 4.5.4 Area Logging – West Fraser (2022/ 2023 Logging Season)
- 4.5.5 Tumbler Ridge Global Geopark and Wolverine Nordic and Mountain Society (WNMS)
- 4.5.6 Radio Controlled Roads (ERP MAP)

4.6 SCHOOLS DIVISION(S) / SCHOOL(S)

4.7 INDUSTRIAL OPERATOR(S)

4.8 TRAPPERS / GUIDE OUTFITTERS

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

4.10 FOREST MANAGEMENT AREA(S)

4.11 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

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

ALL HAZARDS IDENTIFICATION TABLE.....	1
1 SITE-SPECIFIC DISTRIBUTION LIST.....	5
1.1 INTERNAL COPIES.....	5
1.2 EXTERNAL COPIES.....	6



EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

ALL HAZARDS IDENTIFICATION TABLE

Completed By: Area Field Operations & Emergency Management Tech

POTENTIAL HAZARD	HAZARD IMPACTS:				RANK HAZARD IMPACT (Low / Med / High)	MITIGATION MEASURES AVAILABLE / NEEDED (Fundamental Reference Materials: SMS Section 22 / Safety Data Sheets (SDS) / ERP Manual / Emergency Response Guide / Guide to Safety & Compliance / First Responder's Guide / Site-Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)	
	PUBLIC	ENVIRONMENT		COMPANY ASSETS		CONTROLS / EQUIPMENT / RESOURCES	
		LAND USE AREAS	WILDLIFE / LIVESTOCK				
<input checked="" type="checkbox"/> Hydrogen Sulphide (H ₂ S) Release	Yes	Yes	Yes	Yes	Med	<input checked="" type="checkbox"/> Personal Gas Monitor	
						<input type="checkbox"/> Portable Gas Detector	
						<input checked="" type="checkbox"/> SCBA	
						<input type="checkbox"/> SABA	
						<input checked="" type="checkbox"/> ESD Procedures	
						<input checked="" type="checkbox"/> Emergency Planning Zone(s)	
						<input checked="" type="checkbox"/> Ignition Resources – Equipment	
						<input checked="" type="checkbox"/> Ignition Resources – Service Provider	
						<input checked="" type="checkbox"/> Roadblock Kit(s)	
						<input checked="" type="checkbox"/> Communication Plans – Public / Media	
						<input checked="" type="checkbox"/> SCADA ESD	
						<input type="checkbox"/> Other:	
<input type="checkbox"/> High Vapour Pressure (HVP) Pipeline Release (pipelines that convey hydrocarbon mixtures in the liquid or quasi-liquid state with a vapour pressure of greater than 110 kPa absolute at 38°C)						<input type="checkbox"/> SCADA ESD	
						<input type="checkbox"/> Evacuation Procedures	
						<input type="checkbox"/> Roadblock Kit(s)	
						<input type="checkbox"/> Communication Plans – Public / Media	
						<input type="checkbox"/> Emergency Response Plan	
						<input type="checkbox"/> ESD Procedures	
						<input type="checkbox"/> Emergency Planning Zone(s)	
						<input type="checkbox"/> Ignition Resources – Equipment	
						<input type="checkbox"/> Ignition Resources – Service Provider	
						<input type="checkbox"/> Fire Extinguishers	
						<input type="checkbox"/> Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers	
						<input type="checkbox"/> Other:	



EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

POTENTIAL HAZARD	HAZARD IMPACTS:			COMPANY ASSETS	RANK HAZARD IMPACT <i>Low / Med / High</i>	MITIGATION MEASURES AVAILABLE / NEEDED <i>(Fundamental Reference Materials: SMS Section 22 / Safety Data Sheets (SDS) / ERP Manual / Emergency Response Guide / Guide to Safety & Compliance / First Responder's Guide / Site-Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)</i>	
	PUBLIC	ENVIRONMENT				CONTROLS / EQUIPMENT / RESOURCES	
Large Chemical Storage Hazards (CEPA – E2) <input type="checkbox"/> <i>(large active storage vessels for NGLs, LPGs, LNGs, condensate, crude oil, hydrochloric acid, pentanes, etc.)</i>						ACTIVE MITIGATIONS	
						<input type="checkbox"/>	Firefighting Equipment – e.g. shovels, axes, picks, water packs, wheeled extinguishers
						<input type="checkbox"/>	Fire Extinguishers
						<input type="checkbox"/>	Industrial Firefighters
						<input type="checkbox"/>	Roadblock Kit(s)
						<input type="checkbox"/>	Communication Plans – Public / Media
						<input type="checkbox"/>	Ignition Resources – Equipment
						<input type="checkbox"/>	Ignition Resources – Service Provider
						<input type="checkbox"/>	Evacuation Zone
						<input type="checkbox"/>	Evacuation Procedures
						<input type="checkbox"/>	ESD (Automatic Valves) Procedures
						<input type="checkbox"/>	SCADA ESD
						PASSIVE MITIGATIONS	
						<input type="checkbox"/>	Secondary Containment – earth berms, dikes
						<input type="checkbox"/>	Separator / Surface Water Collection System
						<input type="checkbox"/>	Vessel Protection Systems – PSVs, high level alarm
Petroleum Release / Spill <input checked="" type="checkbox"/> <i>(on land or in water, includes all types of petroleum spills, gas releases, flammable vapours releases)</i>	Yes	Yes	Yes	Yes	Med	<input checked="" type="checkbox"/>	SCADA ESD
						<input checked="" type="checkbox"/>	CiNQ – Environment Conventional – Thermal Intranet Site: <i>spill reporting procedures / docs</i>
						<input checked="" type="checkbox"/>	TDG / LPG Emergency Responsibilities <i>(Guideline 10, Corporate ERP)</i>
						<input checked="" type="checkbox"/>	WCSS / Other Spill Cooperative Manual
						<input checked="" type="checkbox"/>	WCSS / Other Water Control Point Location(s)
						<input checked="" type="checkbox"/>	Boom(s)
						<input checked="" type="checkbox"/>	Absorbent Material
						<input checked="" type="checkbox"/>	Roadblock Kit(s)
						<input checked="" type="checkbox"/>	Proper PPE
						<input checked="" type="checkbox"/>	Communication Plans – Public / Media
						<input checked="" type="checkbox"/>	Other: <i>CNRL Spill Response Trailer, FSJ Office</i>



EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

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



EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

POTENTIAL HAZARD	HAZARD IMPACTS:				RANK HAZARD IMPACT <i>Low / Med / High</i>	MITIGATION MEASURES AVAILABLE / NEEDED <i>(Fundamental Reference Materials: SMS Section 22 / Safety Data Sheets (SDS) / ERP Manual / Emergency Response Guide / Guide to Safety & Compliance / First Responder's Guide / Site-Specific Drilling Plans / Asset Integrity Pipeline Maintenance Manual and Management Systems)</i>		
	PUBLIC	ENVIRONMENT		COMPANY ASSETS		CONTROLS / EQUIPMENT / RESOURCES		
		LAND USE	WILDLIFE / LIVESTOCK					
<input checked="" type="checkbox"/> Communications Failure	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low	<input checked="" type="checkbox"/> Landlines		
						<input checked="" type="checkbox"/> Cell phones		
						<input checked="" type="checkbox"/> 2-way radios		
						<input checked="" type="checkbox"/> 2-way Radios – Service Providers		
						<input checked="" type="checkbox"/> Internal Communication / Notification System		
						<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> Power Outages	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low	<input type="checkbox"/> Back-up generator(s)		
						<input checked="" type="checkbox"/> Communication systems		
						<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> Severe Weather / Natural Disasters <i>(includes severe storms, blizzards, tornadoes, earthquakes, floods, landslides)</i>	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low	<input checked="" type="checkbox"/> Communication Advisory		
						<input checked="" type="checkbox"/> ESD Procedures		
						<input checked="" type="checkbox"/> Area Working Alone Procedures		
						<input checked="" type="checkbox"/> Shelter / Evacuation Procedures		
						<input type="checkbox"/> Pumps		
						<input type="checkbox"/> Other:		
<input checked="" type="checkbox"/> Pandemic <i>(reduced workforce)</i>	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low	<input checked="" type="checkbox"/> Back-Up Resources for Continued Operations		
						<input checked="" type="checkbox"/> Internal Communication / Notification System		
						<input checked="" type="checkbox"/> Canadian Natural Pandemic Protocols – <i>Human Resources</i>		
<input checked="" type="checkbox"/> Security Threats <i>(theft / vandalism / violence / terrorism)</i>	n/a (not EPZ related)	n/a (not EPZ related)	n/a (not EPZ related)	Yes	Low	<input checked="" type="checkbox"/> Internal Communication / Notification System		
						<input checked="" type="checkbox"/> Roadblock Kits		
						<input checked="" type="checkbox"/> Communication Plans – Public / Media		
						<input checked="" type="checkbox"/> Evacuation Procedures		
						<input checked="" type="checkbox"/> Information Systems: <i>Disaster Recovery Principles</i>		
<input type="checkbox"/> Other						<input type="checkbox"/>		
						<input type="checkbox"/>		
						<input type="checkbox"/>		

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

1 SITE-SPECIFIC DISTRIBUTION LIST

1.1 INTERNAL COPIES

COPY	RECIPIENT	POSITION	LOCATION	CONFIDENTIAL INFORMATION INCLUDED (✓)
1		Foreman	Tumbler Ridge Office	✓
2		Foreman (North Grizzly/ North Ojay)	Fort St. John Office	✓
3	Assistant Foreman	Assistant Foreman	Tumbler Ridge Office	✓
4	Assistant Foreman	Assistant Foreman (North Grizzly/ North Ojay)	Tumbler Ridge Office	✓
5	Grizzly North Plant	Facility		
6	Ojay Compressor	Facility		
7	Ojay Mole Sieve	Facility		
8	Todd Andrews	Area Superintendent	Fort St. John Office	✓
9		Manager, Fort St. John Field Operations	Calgary Office	
Electronic (CiNQ)		Area Safety & Compliance Coordinator	Fort St. John Office	
10		Surface Landman	Fort St. John Office	✓
11	Emergency Response Mobile Cart		Calgary Office	✓
12	Calgary Emergency Operations Centre (EOC)		Calgary Office BHE 26002	✓
*(x6)	ERP maps for Roadblock Kits	Grizzly North Plant		
		Thunder Plant		
		Ojay Compressor		
		Ojay Mole Sieve		
		Ojay		
		Tumbler Ridge Office	Tumbler Ridge Office	

1.2 EXTERNAL COPIES

COPY #	RECIPIENT	ORGANIZATION	LOCATION
Email	Secretary of the Board cc Emergency Management & Security Program Support	Canada Energy Regulator	cc: [REDACTED]
13 <i>Not required for 2022</i>	CER – Hard Copy		517 – 10 th Avenue SW Calgary, AB T2R 0A8
CD <i>Not required for 2022</i>	CER		
14	Emergency Response and Safety Inspector	British Columbia Oil and Gas Commission	6534 Airport Road Fort St. John BC V1J 4M6
eSubmission	British Columbia Oil and Gas Commission	British Columbia Oil and Gas Commission	[REDACTED]
Email	Manager of Community Services	Peace River Regional District	P. O. Box 810 1981 Alaska Avenue Dawson Creek BC V1G 4H8 [REDACTED]
Email	Regional Fire Chief	Municipal District of Greenview	Box 1079 Valleyview, Alberta, Canada T0H 3N0 [REDACTED]
Email	North Zone Manager, Environmental Public Health	AHS – North Zone	[REDACTED]
CD	<i>Electronic copy on CD</i>		
eSubmission	<i>Electronic copy submitted via British Columbia Oil and Gas Commission's online submission portal</i>		
Email	<i>Electronic copy provided by email</i>		

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/corporate-responsibility/health-and-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

SECTION 2: GENERAL INFORMATION

2.1	INTRODUCTION AND SUMMARY	1
2.1.1	Facility - General Information Location.....	1
2.1.2	Incident Command Post (ICP) / Emergency Operations Centre (EOC)	2
2.1.3	Safe Locations	2
2.1.4	General Land Use and Population Density	3
2.1.5	Emergency & Roadblock Equipment.....	4
2.1.5.1	Emergency Equipment.....	4
2.1.5.2	Roadblock (EPZ Isolation) Equipment	5
2.1.6	External Emergency Response Plans / Mutual Aid.....	6
2.1.6.1	External Emergency Response Plans - Local Municipalities	6
2.1.6.2	External Emergency Response Plans: Local Health Services	7
2.1.6.3	Mutual Aid	9
2.1.7	Driving Directions and Map	10
2.1.7.1	Driving Route	10
2.1.7.2	Proximity To Nearest Urban Centre	10
2.1.7.3	Latitude and Longitude Coordinates	11
2.2	EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS.....	15
2.3	COMMUNICATIONS	16
2.3.1	Communication Equipment	16
2.3.2	Radio Frequencies	16
2.3.2.1	CNRL South District Road Channels	16
2.3.2.2	CNRL Road Frequencies	17
2.3.2.3	CNRL Tumbler Voice Communication Channels	17
2.3.2.4	SNRI VHF Mobiles - [REDACTED]	17
2.3.2.5	SNRI UHF Portables - [REDACTED]	18
2.3.2.6	BC RR Channels.....	18
2.4	SPILL RESPONSE	19

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

2 GENERAL INFORMATION

2.1 INTRODUCTION AND SUMMARY

2.1.1 FACILITY - GENERAL INFORMATION

FACILITY	LOCATION	PHONE NUMBER	DESCRIPTION
CNRL FACILITIES: GRIZZLY / THUNDER / OJAY AREA			
Fort St. John On-Call Phone	--		24 Hour
Grizzly North Camp			Main Office. People on site at night.
Grizzly North Plant Office			Main Office. 1-2 personnel make daily visits. (This is NOT manned 24 hours.)
Grizzly South Plant Office			Main Office
Ojay Camp Office			Main Office. 1-2 personnel make daily visits. (This is NOT manned 24 hours.)
Ojay Camp			Camp Phone
Ojay North Plant			Main Office
Ojay Plant Office			Main Office
Thunder Plant Office			Main Office 1-2 personnel make daily visits. (This is NOT manned 24 hours.)
CNRL FACILITIES (OTHER AREAS)			
Babcock Plant			Main Office
Bullmoose Plant Office			Main Office
Boulder Plant			Main Office
Mast Plant Office			Main Office
Murray River Plant Office			Main Office
Spieker Plant Office			Main Office
Tumbler Ridge Office			Main Office
West Bullmoose Plant Office			Main Office
Wolverine Plant Office			Main Office
MUTUAL AID: SUKUNKA NATURAL RESOURCES INCORPORATED (SNRI) FACILITIES			
Chetwynd Office			Main Office
			Conference Room
Kwoen Gas Plant			Kwoen #2
			Kwoen #2
Pine River Gas Plant			Main Office
			Control Room
			Emergency Response Room
Sukunka Plant			Lunch Room
West Sukunka Plant			Control Room

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

DISTRICT OFFICE LOCATION	Fort St. John	
TELEPHONE NUMBERS	250-785-3085	Business
	250-785-3055	Fax
	250-263-2019	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	
PHONE NUMBERS	250-785-3085	Business
	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

2.1.4 GENERAL LAND USE AND POPULATION DENSITY

Local Municipality		Peace River Regional District (BC) MD of Greenview #16 (BC)
Area Land Use		Oil and gas, hunting, trapping, guiding, ranching, mining.
POPULATION DENSITY (WITHIN EPZ)		
NUMBER	TYPE	DESCRIPTION
14	Residences	12 seasonal, 2 occupied. See Section 4 for more information.
15	Businesses / Organizations	See Section 4 for more information.
6	Public Facilities / Recreational Areas	4 campsite/ recreation areas, 2 airstrips See Section 4 for more information.
11	Trappers / Guide Outfitters	10 trap lines, 1 guide outfitters. See Section 4
0	Grazing Leases / Reserves	None
0	Forest Management Areas	None
7	First Nations	See Section 4
Several	Lakes / Rivers	Barber Lake, Red Deer Creek, Wapiti River, Little Prairie Creek, Stony Lake, Belcourt Creek, Honeymoon Creek, Fearless Creek, Bokken Creek, Inis Lake, Calliou Lake, Calliou Creek, Gap Lake, Gibson Lake, Rat Lake, Kinuseo Creek, Flatbed Creek, many other lakes, creeks and various unnamed tributaries.
1	Public Highways	Heritage Hwy 52
1	Other	Hunting - Private hunting, as well as guided hunting/fishing, takes place all through the wilderness in this area. In case of emergency, aerial surveillance will be needed to look for any backpackers, day-hikers, cyclists, snowmobilers, skiers or hunters.



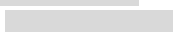
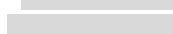

2.1.5 EMERGENCY & ROADBLOCK EQUIPMENT

2.1.5.1 Emergency Equipment

TYPE	QUANTITY	LOCATION / NOTES
Burn Kit		
Eye Wash Station – 1 litre bottle		
Eye Wash Station – 15 min flow	3	Kept at main plant sites
First Aid Kit	3	Kept at main plant sites
First Aid Room		
First Aid Station		
Fire Blanket		
Firefighting Hand Tools (<i>e.g. shovels, axes, picks, hand pump water packs, etc</i>) - minimum requirements in place for different provinces (see Corp ERP, Section 2.2.4)		
Handheld Fire Extinguisher	2	Kept at main plant sites
Ignition Equipment	5	1 flare pistol in the roadblock kit (Grizzly North), 1 flare pistol in each truck (2 Grizzly North trucks & 1 South Run truck), 1 flare shotgun in Assistant Foreman's truck.
Personal Gas Monitor	5	3-head 4 way gas monitors used by the operations staff throughout the Grizzly, South Grizzly, Ojay and Thunder fields.
Portable Gas Detector	0	
Portable Spill Response Kit	0	
Self-Contained Breathing Apparatus (SCBA)	5	One for each operator and crew
Spill Response Trailer	0	None located on site Nearest CNRL Trailer(s): - Fort St. John Office - Grande Prairie North Office, 10123 156 Ave - CNRL Progress (GP)
Supplied Air Breathing Apparatus (SABA)	0	
Wheeled Fire Extinguisher (150 - 300 lb)	0	

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)	6	Grizzly North Plant -  Thunder Plant -  Ojay Compressor -  Ojay Mole Sieve -  Ojay  Tumbler Ridge Office

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

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 General Manager of Community Services to ensure that responses are coordinated.

The PRRD 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:

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.

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

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.

MUNICIPAL DISTRICT OF GREENVIEW (AB)

Any time an emergency occurs that involves the evacuation of more people than Canadian Natural personnel can handle, the MD of Greenview will be notified to assist. If necessary, the MD will then declare a local state of emergency and take over the evacuation process, including activating and manning their own Reception Centre and sending Municipal District personnel / volunteers to manage an evacuation. It is essential that Canadian Natural's Incident

Commander or designate maintain communication with the Municipal District's Manager Protective Services to ensure that responses are coordinated.

The MD has an Emergency Response Plan (ERP). Their emergency number is included in the Municipal Contacts Section of Canadian Natural's ERP. They can be called to assist Canadian Natural with any emergency notifications, evacuations or procedures that may be required.

There are three Greenview Fire Departments located at DeBolt, Grande Cache and Grovedale, two Fire Departments on contract from Fox Creek, Grande Cache and Valleyview, each with approximately 20 volunteer fire fighters.

Emergency Services / Equipment:

Greenview Fire/Rescue Services (GFRS) has three fire stations, #31 - DeBolt, #32 - Grovedale and #33 - Grande Cache and two (2) Fire Departments on contract, Fox Creek and Valleyview, each with approximately 20 volunteer fire fighters.

NOTE: The Fire Stations/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 Stations/Fire Departments resources may be useful for on-site actions such as water tank trucks, potable water tanks, etc. and may be made available if requested. Certain areas have limited access or are extremely remote from any Fire Stations/Fire Departments.

Alberta Agriculture and Forestry is responsible for wildland fire protection in these areas. The MD of Greenview has four Peace Officers. All policing duties are covered by the RCMP.

Emergency Medical Services are under Alberta Health Services; dial 9-1-1.

Local RCMP Detachments

The local RCMP detachments of Tumbler Ridge, Dawson Creek and Grande Prairie:

- 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 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID

2.1.6.2 External Emergency Response Plans: Local Health Services

HEALTH EMERGENCY MANAGEMENT BRITISH COLUMBIA (HEM BC) / 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, re-occupancy 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

NOTE: British Columbia Emergency Health Services (BCEHS – Ambulance) remains independent of Northern Health. If an ambulance is required please contact BCEHS via 911 (or the local contact number if 911 is not available in the area)

ALBERTA HEALTH SERVICES (AHS) – NORTH ZONE**Alberta Health Services – North Zone 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 re-occupancy 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.

NOTE: The North Zone has developed an e-mail address [REDACTED] that will be used to receive all electronic information relating to oil and gas emergency response planning in the North Zone. If it can be sent electronically please use the e-mail provided. This e-mail will be checked by designated personnel and all information handled appropriately. There is no longer a need to send information to local offices in the North Zone as it will be distributed internally by our own staff.

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.

CNRL Subsidiary Companies Mutual Aid

Sukunka Natural Resources Inc. (SNRI) is a subsidiary of the Canadian Natural and owns assets in the area that are not covered by this ERP. Should an emergency occurs SNRI will provide assistance, aid and available resources as required.

OPERATOR	ERP NAME	EMERGENCY NUMBER
Sukunka Natural Resources Inc.	[REDACTED]	1-888-878-3700

Operated Third Party Assets

In an emergency involving another licensee whose assets are operated by Canadian Natural, Canadian Natural would provide First Responder actions, with an immediate notification to these well or pipeline licensees to activate their ERP:

- **Pieridae Energy** 24 Hour Emergency 1-866-267-5298

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, the licensee will have their own ERP and would be responsible for emergency response actions involving their assets.

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 Tumbler Ridge To Grizzly North [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]

From Tumbler Ridge To Grizzly South [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]

From Tumbler Ridge To South Grizzly [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]

From Tumbler Ridge To Thunder [REDACTED]:

- [REDACTED]
- [REDACTED]

From Tumbler Ridge To Thunder [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

From Tumbler Ridge To Ojay [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

From Tumbler Ridge To [REDACTED]:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.1.7.2 Proximity To Nearest Urban Centre

To Tumbler Ridge:

From Grizzly North Plant: [REDACTED] km
From Grizzly South Plant: [REDACTED] km
From Thunder Plant: [REDACTED] km
From Ojay Plant: [REDACTED] km

2.1.7.3 Latitude and Longitude Coordinates

FACILITY	LATITUDE (N)	LONGITUDE (W)
Grizzly North Plant		
Grizzly South Plant		
South Grizzly		
Thunder Plant		
Thunder		
Ojay Plant		
Ojay		

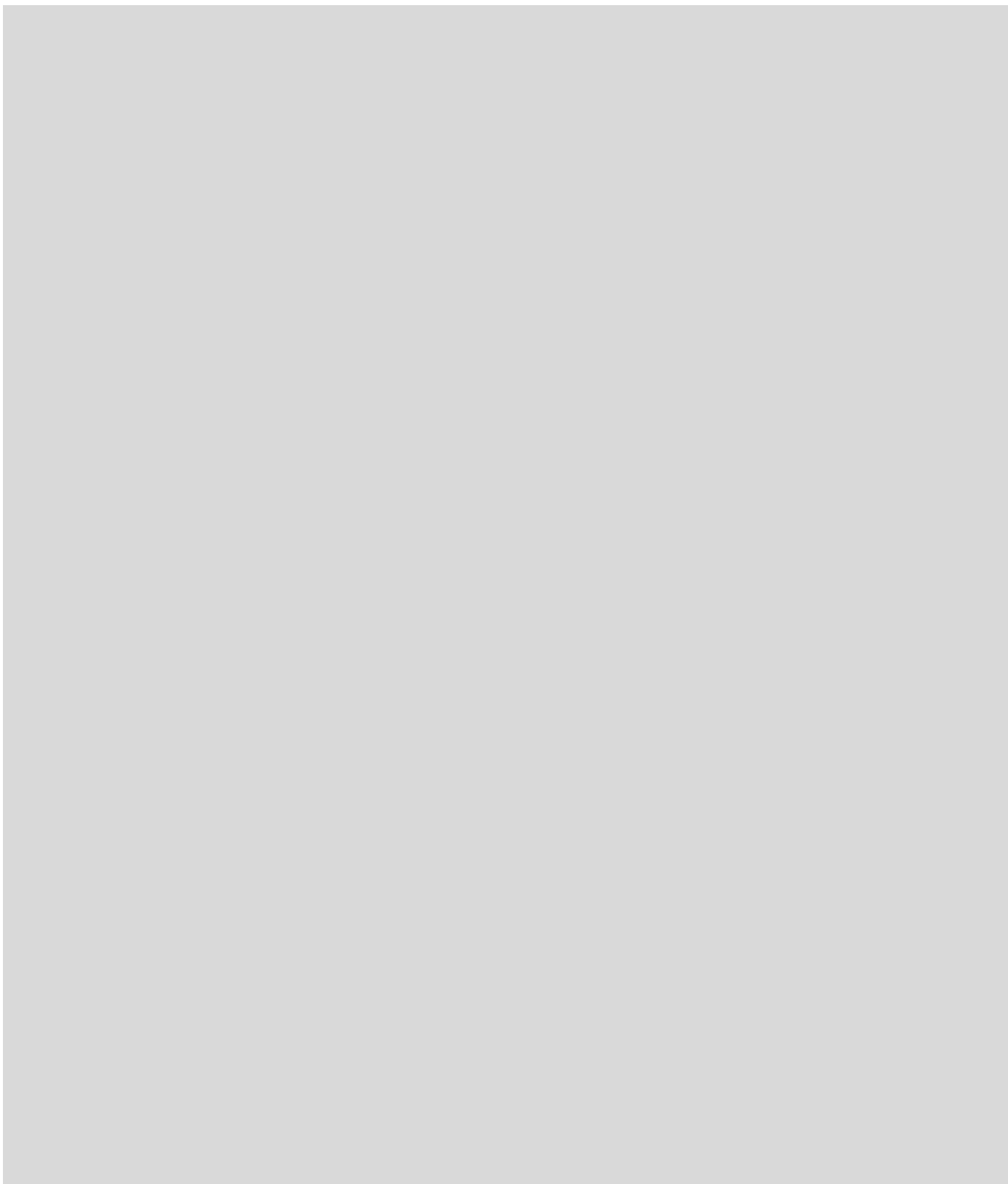


EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700



2.2 EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS

PRESENT AT	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 (On sales line)	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.
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.
N	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.
N	24-Hour Manned Stations	Some Canadian Natural facilities are monitored 24 hours a day.
N	H ₂ S Monitors – Continuous	Continuous H ₂ S 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 ₂ S levels are detected at the facility. If H ₂ S 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.

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

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	All operators have two-way radios. If more portable radios are required, contact service providers listed in Contract Services - Communication Equipment
Land Line	Phones at all Plant sites

2.3.2 RADIO FREQUENCIES

















2.3.2.1 CNRL South District Road Channels

[illegible]



24-Hour Emergency 1-888-878-3700

[illegible]

	RX Frequency	RX Tone	TX Frequency	RX Tone	Name
		~~~		~~~	
		~~~		~~~	
		~~~		~~~	
		~~~		~~~	

[illegible]



24-Hour Emergency 1-888-878-3700

Ch. #	RX Frequency	TX Frequency	QT/DQT Dec	QT/DQT Enc	Channel Name	Power	W/N

2.3.2.5 SNRI UHF Portables -

[illegible]

2.3.2.6 BC RR Channels

[illegible]



24-Hour Emergency 1-888-878-3700

[illegible]

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.

SECTION 3: CONTACTS AND TELEPHONE LISTS

3.1	COMPANY EMERGENCY CONTACTS.....	1
3.2	MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART) .	1
3.3	ROAD CLOSURE CONTACTS	3
3.4	WATER INTAKE CLOSURE CONTACTS.....	3
3.5	PROVINCIAL GOVERNMENT CONTACTS	3
3.6	EMERGENCY SERVICE NUMBERS.....	5
3.7	TDG / LPG EMERGENCY NUMBERS.....	5
3.8	MUNICIPAL GOVERNMENT CONTACTS.....	6
3.9	FEDERAL GOVERNMENT CONTACTS.....	6
3.10	CONTRACT SERVICES	7
3.10.1	Air Quality Monitoring (Mobile)	7
3.10.2	Aircraft (Fixed Wing) Charters.....	7
3.10.3	Communications Rental Equipment.....	7
3.10.4	Drone / UAV Operators	7
3.10.5	Fresh Water Haulers	7
3.10.6	Helicopters	8
3.10.7	Safety Services	8
3.10.8	Spill Response Equipment	8
3.10.9	Well Blowout Control	8
3.10.10	Western Canadian Spill Services (WCSS) Coop 9 & Coop 5	9

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

3 CONTACTS AND TELEPHONE LISTS

3.1 COMPANY EMERGENCY CONTACTS

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

3.2 MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART)

NAME	LOCATION	TELEPHONE	
BRITISH COLUMBIA			
FOR CER PIPELINE INCIDENTS, CALL: Transportation Safety Board (TSB) *TSB will contact CER See Forms & Guidelines section, Corporate ERP: <u>Guideline 8: CER Event Reporting Guidelines</u> NOTE: CER = Canada Energy Regulator OERS = CER's Online Event Reporting System	For "Immediately Reportable Events" within three (3) hours of discovery: a) call TSB 24-Hour Reporting Hotline and b) report via OERS	24-Hour	1-819-997-7887
		https://apps.cer-rec.gc.ca/ers	
		For all other events, within 24 hours of discovery: a) report via OERS <i>If OERS is unavailable, report by calling TSB 24-Hour Reporting Hotline</i>	https://apps.cer-rec.gc.ca/ers
Emergency Management BC (EMBC) EMBC will contact BC Oil & Gas Commission (OGC)	Province-Wide	For all emergencies 24-Hour Incident Reporting	1-800-663-3456

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

NAME	LOCATION	TELEPHONE
Use this number to also verbally report an Environmental Emergency (E2) ----- <ul style="list-style-type: none"> Written notice (Schedule 8) made via SWIM * ASAP by Environmental Coordinator Environment Canada notified by EMBC 		* For E2 Emergency Reporting only: 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 (HEMBC)	Northern BC	24-Hour Emergency On-Call [Redacted] Non-emergency inquiries only (HEMBC Director) [Redacted]
RCMP – Dawson Creek Detachment	Fort St. John BC	24-Hour 9-1-1
RCMP – Tumbler Ridge Detachment	Tumbler Ridge, BC	24-Hour Emergency 250-242-5252

NAME	LOCATION	TELEPHONE
ALBERTA		
FOR CER PIPELINE INCIDENTS, CALL: Transportation Safety Board (TSB) *TSB will contact CER <i>See Forms & Guidelines section, Corporate ERP: Guideline 8: CER Event Reporting Guidelines</i> NOTE: CER = Canada Energy Regulator OERS = CER's Online Event Reporting System	For "Immediately Reportable Events" within three (3) hours of discovery: a) call TSB 24-Hour Reporting Hotline and b) report via OERS For all other events, within 24 hours of discovery: a) report via OERS If OERS is unavailable, report by calling TSB 24-Hour Reporting Hotline	24-Hour 1-819-997-7887 https://apps.cer-rec.gc.ca/ers https://apps.cer-rec.gc.ca/ers
Energy & Environmental Response Line Alberta Environment / Alberta Energy Regulator (AER) Use this number to also verbally report an Environmental Emergency (E2) ----- <ul style="list-style-type: none"> Written notice (Schedule 8) made via SWIM * ASAP by Environmental Coordinator Environment Canada notified by EMBC 	Province-Wide	For all emergencies 24-Hour Incident Reporting 1-800-222-6514 * For E2 Emergency Reporting only: Single Window Information Management (SWIM) https://ec.ss.ec.gc.ca
Municipal District of Greenview No. 16	Valleyview	24-Hour 1-866-524-7608
Alberta Health Services * Ask for Environmental Public Health On Call	Province-Wide	24-Hour [Redacted] Email [Redacted]
RCMP: Grande Prairie Detachment	Grande Prairie AB	24-Hour Emergency 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	
BC	Provincial Highway / Roads <i>(highways with 1, 2, 3 digits or local names)</i>	1. RCMP / Local Police – advise of situation / request presence	24-Hour	9-1-1
		2. Traffic Management Centre BC – advise of situation / pending roadblocks	24-Hour	1 866 707-7862
		3. Highway Maintenance Contractor – advise of situation / roadblock locations	Argo Road Maint	1-800-663-7623
			Dawson Road Maint	1-800-842-4122
	Petroleum Development Roads (PDRS) Forestry Roads	1. RCMP / local police – advise of situation / roadblock locations; request presence	24-Hour	9-1-1
2. Notify of closures as needed: - for PDRs, notify OGC 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
	- for other licensee PDRs and / or forestry roads	AER / Alberta Environment & Parks	24-Hour	1-800-222-6514

3.4 WATER INTAKE CLOSURE CONTACTS

**** NOT APPLICABLE ****

3.5 PROVINCIAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE	
BRITISH COLUMBIA			
Emergency Management BC (EMBC) <i>EMBC will contact BC Oil and Gas Commission (OGC)</i> <i>For E2 emergencies, call and written report* required</i>		For all emergencies 24-Hour Incident Reporting	1-800-663-3456
		* For E2 Emergency Reporting only: Single Window Information Management (SWIM) https://ec.ss.ec.gc.ca	
Forests, Lands, Natural Resource Operations & Rural Development (LNRORD), Ministry of <i>Natural Resource Districts</i>	Fort Nelson NRD	Fort Nelson Office	250 774-5511
	Peace NRD	Dawson Creek Office	250-784-1200
Health Emergency Management BC (HEMBC) Non-emergency inquiries only (<i>HEMBC Director</i>)	Northern BC	24-Hour Emergency On Call	

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

NAME	LOCATION	TELEPHONE	
Highway Maintenance Service Area 21 – South Peace <i>Argo Road Maintenance (South Peace) Inc.</i>	Dawson Creek / Pouce Coupe BC	Emergency	1-800-663-7623
		Road & Weather Conditions: www.drivebc.ca	
Highway Maintenance Service Area 22 – North Peace <i>Dawson Road Maintenance Ltd.</i>	Fort St. John BC	Emergency	1-800-842-4122
		Road & Weather Conditions: www.drivebc.ca	
Report a Wildfire	Province-Wide	24-Hour	1-800-663-5555
		Cell (Telus)	*5555
Report All Poachers and Polluters (RAPP)	Province-Wide	24-Hour	1-877-952-7277
		Cell (Telus)	*7277
WorkSafeBC <i>(Area Safety & Compliance Coordinator only)</i>	Province-Wide	Worksite Emergency	1-888-621-7233
		24-Hour	

NAME	LOCATION	TELEPHONE	
ALBERTA			
Alberta EDGE – Center for TDG <i>(Environmental and Dangerous Goods Emergencies)</i>	Province-Wide	24-Hour	1-800-272-9600
Alberta Emergency Management Agency (AEMA) <i>Provincial Operations Centre (POC)</i>	Province-Wide	24-Hour	1-866-618-2362
Alberta Energy Regulator (AER) <i>* notify when blocking petroleum development and / or forestry roads</i>	Energy & Environmental Emergency or Complaint	24- Hour	1-800-222-6514
Alberta Environment and Parks <i>* notify when blocking roads through or adjacent to Crown Land</i>			
Alberta Environment & Parks <i>Parks Fish and Wildlife Land Water</i>	Report a Poacher	24-Hour	1-800-642-3800
		Telus Mobile	#3800
	Report a Wildfire	24-Hour	310- 3473 (FIRE)
Alberta Health Services <i>* Ask for Environmental Public Health On Call</i>	Province-Wide	24-Hour	
		Email	
Alberta Transportation <i>Provincial Highway Road Closures Support</i> 1. call 9-1-1 / RCMP 2. call nearest Region / District Office <i>Highway maintenance contractors are responsible for maintenance activities including highway patrolling and emergency duties</i> Road& Weather Conditions: 511.alberta.ca	Grande Prairie District Office	Grande Prairie	780-538-5310
Occupational Health & Safety <i>(Area Safety & Compliance Coordinator only)</i>	Province-Wide	24-Hour	1-866-415-8690
Workers' Compensation Board	Province-Wide	24-Hour	1-866-922-9221

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

3.6 EMERGENCY SERVICE NUMBERS

SERVICE	LOCATION	TELEPHONE NUMBER	
BRITISH COLUMBIA			
RCMP – Dawson Creek Detachment	Dawson Creek, BC	24-Hour	9-1-1
		Office	250-784-3700
RCMP – Tumbler Ridge Detachment	Tumbler Ridge, BC	24-Hour	250-242-5252
Hospital – Fort St. John	Fort St. John BC	24-Hour	250-262-5200
Hospital – Dawson Creek	Dawson Creek, BC	24-Hour	250-782-8501
British Columbia Ambulance Service	Province-Wide	Emergency	9-1-1
		Toll Free	1-800-461-9911
		Cell/ SAT Phone/ Outside BC	250-374-5937
Fire Department – Dawson Creek	Dawson Creek, BC	24-Hour Office	9-1-1 250-782-9898
Fire Department – Tumbler Ridge	Tumbler Ridge, BC	24-Hour Office	9-1-1 250-242-3939
ALBERTA		ALL EMERGENCY SERVICES CALL 9-1-1	
RCMP	Grande Prairie AB	Office	780-830-5700
Hospital	Grande Prairie AB	24-Hour	780-538-7100
STARS Air Ambulance	Province-Wide	24-Hour	1-888-888-4567
		From cell	*4567
Ambulance	Grande Prairie AB	Office	780-513-5290
Fire Department	Grande Prairie AB	Office	780-538-0393

3.7 TDG / LPG EMERGENCY NUMBERS

NAME	CONTACT	TELEPHONE NUMBER	
FOR TDG EMERGENCIES <i>Operations to contact ERAC only if carrier driver is unable to contact supervisor</i> 1) Carrier is responsible for contacting ERAC 2) ERAC will contact company on call contacts (Safety Leads) for ERAP activation 3) 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
For Information Only: CANUTEC		Toll free	1 888 226-8832
		Call Collect	613 996-6666
		Cell	*666

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

3.8 MUNICIPAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE NUMBER	
Peace River Regional District	Dawson Creek BC	24 Hr Emergency	1-800-663-3456
		Toll-free/ After Hours	1-800-670-7773
Municipal District of Greenview	Valleyview AB	Toll-free/ After Hours	1-866-524-7608
		Office	780-524-7600

3.9 FEDERAL GOVERNMENT CONTACTS

NAME	LOCATION	CONTACT INFORMATION	
FOR CER PIPELINE INCIDENTS, CALL: Transportation Safety Board (TSB) *TSB will contact CER <i>See Forms & Guidelines section, Corp ERP: Guideline 8: CER Event Reporting Guidelines</i> NOTE: CER = Canada Energy Regulator OERS = CER's Online Event Reporting System	For “Immediately Reportable Events” within three (3) hours of discovery: a) call TSB 24-Hour Reporting Hotline and b) report via OERS	24-Hour	1-819-997-7887
	For all other events, within 24 hours of discovery: a) report via OERS <i>If OERS is unavailable, report by calling TSB 24-Hour Reporting Hotline</i>	https://apps.cer-rec.gc.ca/ers	
	https://apps.cer-rec.gc.ca/ers		
Environment Canada	* will be notified by respective provincial govt agency – see Section 3.2		
Fisheries & Ocean Canada <i>Report damage to fish habitat – contact Fish and Fish Habitat Protection Program by province</i>	Alberta, Manitoba, Saskatchewan, Northwest Territories		1 855 852-8320
	British Columbia		1 866 845-6776
Health Canada Department of Indigenous Services Canada, Environmental Public Health Services First Nations & Inuit Health Branch <i>For emergencies impacting First Nations and Indigenous communities (see Section 4)</i>	BC – FNIH First Nations Health Authority	Main	1-866-913-0033
	BC – EMBC (fanout)	24-Hour	1-800-663-3456
	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

3.10 CONTRACT SERVICES

COMPANY	LOCATION	TELEPHONE NUMBER	
3.10.1 AIR QUALITY MONITORING (MOBILE)			
Brogan Safety - SO ₂ monitors, etc	Dawson Creek, Fort St. John	Dawson Creek	250-784-0116
		Fort St. John	250-787-2114
Emergency Management BC/ British Columbia Oil and Gas Commission (contact if no contract services are available)	Province-Wide Fort St John, BC	24-Hour	1-800-663-3456
Firemaster Oilfield Services	Fort St John, BC	24-Hour	1-877-342-3473
HSE Integrated Ltd.	Fort St John, BC	24-Hour	1-888-346-8260
Trojan Safety Services	Province-Wide	24-Hour	250-785-9557
3.10.2 AIRCRAFT (FIXED WING) CHARTERS		CONTACT CORPORATE TRAVEL	
3.10.3 COMMUNICATIONS RENTAL EQUIPMENT			
Cardinal Telecom (2000) Inc	Chetwynd	Main	250-788-3271
Epscan Communications	Dawson Creek	Main	250-782-4142
Petron Communications	Fort St. John	Main	250-785-3333
T & T Communications	Fort St. John	Main	250-785-0310
3.10.4 DRONE / UAV OPERATORS			
Hummingbird Drones	Fort St. John (satellite office)	250-857-5411 info@hummingbirddrones.ca	
Infinity Drones	Fort St. John	250-787-5110 aaron@infinitydronesinc.com	
Northern Drone Services	Fort St. John	250-719-7469 northerndrone.ca	
Roy Northern Land & Environmental	Fort St. John	250-261-6644 info@roynorthern.com	
3.10.5 FRESH WATER HAULERS			
Avalanche Trucking Ltd	Tumbler Ridge - potable & fresh water	24 hr dispatch	250-242-4774
Chetwynd Fresh Water (2011)	Chetwynd - potable water	24 hr	250-788-2938
K P A Oilfield Services	Chetwynd, Tumbler Ridge - fresh water	Main	250-788-6933
Northern Vac Services	Chetwynd, Dawson Creek, Fort Nelson, Fort St. John, Tumbler Ridge - potable & fresh water	24 hr dispatch	250-785-5435

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

COMPANY	LOCATION	TELEPHONE NUMBER	
3.10.6 HELICOPTERS			
Bailey Helicopters	Fort Nelson, Fort St. John	Toll Free	1-877-822-2245
Canadian Helicopters	Fort St. John, Grande Prairie	24 Hr Emergency (Western Canada)	780-429-6900
Qwest Helicopters	Fort St. John, Fort Nelson	FSJ 24-Hour	250-787-5157
Yellowhead Helicopters	Fort St. John	General Inquiries	1-888-566-4401
3.10.7 SAFETY SERVICES			
Brogan Safety - SO ₂ monitors, etc	Dawson Creek, Fort St. John,	Dawson Creek	250-784-0116
		Fort St. John	250-787-2114
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 EQUIPMENT			
Clean Harbors	North America	24-Hour	1-800-645-8265
EnviroHazmat Emergency Response	BC, AB	24-Hour	1-866-249-7583
GFL Environmental	North America	24-Hour	1-866-417-2797
QM Environmental	BC, AB, SK, MB	24-Hour	1-800-251-7773
Rapid Response Industrial Group	Nationwide	24-Hour	1 844-774-4911
SWAT Consulting	Nationwide	24-Hour	1-866-610-7928
Western Canadian Spill Services (WCSS)	See WCSS section		
3.10.9 WELL BLOWOUT CONTROL			
Firemaster Oilfield Services	Fort St John, BC	24-Hour	1-877-342-3473
HSE Integrated Ltd.	Fort St John, BC	24-Hour	1-888-346-8260
Safety Boss	Fort St John, BC	24-Hour	1-800-882-4967

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

COMPANY	LOCATION	TELEPHONE NUMBER	
3.10.10 WESTERN CANADIAN SPILL SERVICES (WCSS) COOP 9 & COOP 5			
24-HOUR EMERGENCY CONTACT 1-866-541-8888			
<i>Refer to Section 2 Emergency Equipment subsection for Canadian Natural spill response trailers</i>			
COOP 9 (BC)			
Jason MacMillan, Clean Harbors Regional Custodian	Equipment Location: Clean Harbors Surface Rentals 6715 - 85 th Avenue Fort St. John, BC V1J 4J3	Cell	250-224-7925
		Office	250-785-4577
Troyer Ventures Ltd Co-op Custodian	Equipment Location: 4850 - 46 Avenue Fort Nelson, BC V0C 1R0	24-Hour	250-774-5332

COOP 5 (AB)			
Clean Harbours Regional Custodian	Equipment Location: 9601 – 156 Avenue Grande Prairie, AB	Phone	780-532-4331
ARC Resources Ltd (south of GP) Co-op Custodian	Equipment location: Archie Warehouse 07-04-064-05W6	24-Hour	587-343-5824
Pembina Pipelines Co-op Custodian	Equipment location: Pembina Valleyview Pump Station 12-10-69-22-W5M	24-Hour	780-524-3938
Michael Doerkson, Energy Transfer Canada ULC Co-op Custodian	Equipment location: Fox Creek – Energy Transfer Canada – Kaybob Amalgamated Gas Plant 14-01-62-20-W5	24-Hour	780-622-6274
		Office	780-622-6250
		Cell	780-622-7358
Avenge Energy Services Inc. Co-op Custodian	Equipment location: #21 Cessna Road, Airport Industrial Park Westhill Peace River, AB T8S 1S1	24-Hour	780-617-0555
Martin Danny, Silver Peak Services Co-op Custodian	Equipment location: Grande Cache – 97 Street & Hoppe Avenue	24-Hour	780-827-4776
		Cell	780-827-8739

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

Corporate > Environmental Conventional-Thermal > Job Instructions > [Spill Response Equipment and Contact List](#)

SECTION 4: PUBLIC NOTIFICATIONS

4.1	NOTIFICATION PROCEDURES	1
4.1.1	Telephone Callers	1
4.1.2	Automated Public Notification System (Not Applicable)	1
4.2	RECEPTION CENTRE(S)	1
4.3	RESIDENT INFORMATION	1
4.4	BUSINESS / PUBLIC FACILITY INFORMATION.....	1
4.5	SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE	2
4.5.1	Locating Transients and Recreational Users	2
4.5.2	Mountain Man Guide Outfitter Services	2
4.5.3	Argo Road Maintenance.....	2
4.5.4	Area Logging – West Fraser (2022/ 2023 Logging Season)	2
4.5.5	Tumbler Ridge Global Geopark and Wolverine Nordic and Mountain Society (WNMS).....	3
4.5.6	Radio Controlled Roads (ERP MAP).....	4
4.6	SCHOOLS DIVISION(S) / SCHOOL(S).....	5
4.7	INDUSTRIAL OPERATOR(S)	5
4.8	TRAPPERS / GUIDE OUTFITTERS	6
4.9	GRAZING LEASE(S) / RESERVE(S) AND OTHER LAND USE DISPOSITIONS	8
4.10	FOREST MANAGEMENT AREA(S).....	9
4.11	FIRST NATIONS / INDIGENOUS NATIONS.....	9

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	
Tumbler Ridge Inn	275 Southgate Tumbler Ridge, BC, V0C 2W0	24-Hour	250-242-4277
Lakeview Inns & Suites	4820 N Access Rd Chetwynd BC V0C 1J0	24-Hour	250-788-3000
Holiday Inn Express & Suites	12217 – 4 Street Dawson Creek BC V1C 0A4	24-Hour	250-782-7700

4.3 RESIDENT INFORMATION

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

4.4 BUSINESS / PUBLIC FACILITY INFORMATION

Confidential business and public facility information will only be included in the main responders' Emergency Response Plans at the end of this Section, if applicable.

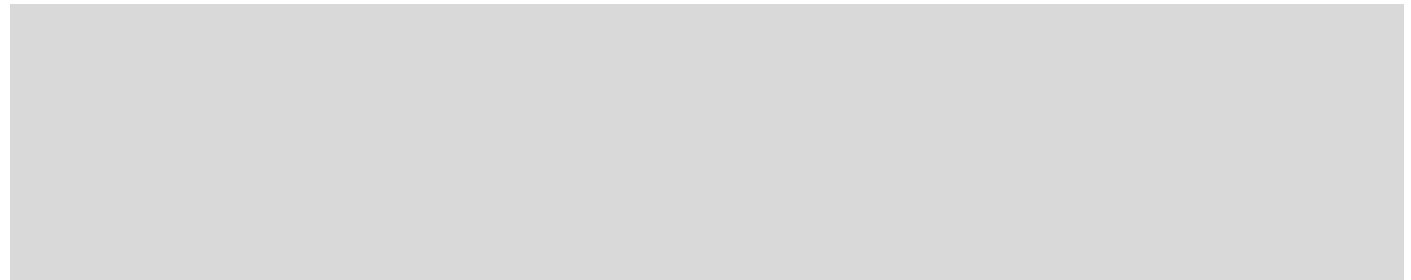
4.5 SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE

4.5.1 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.

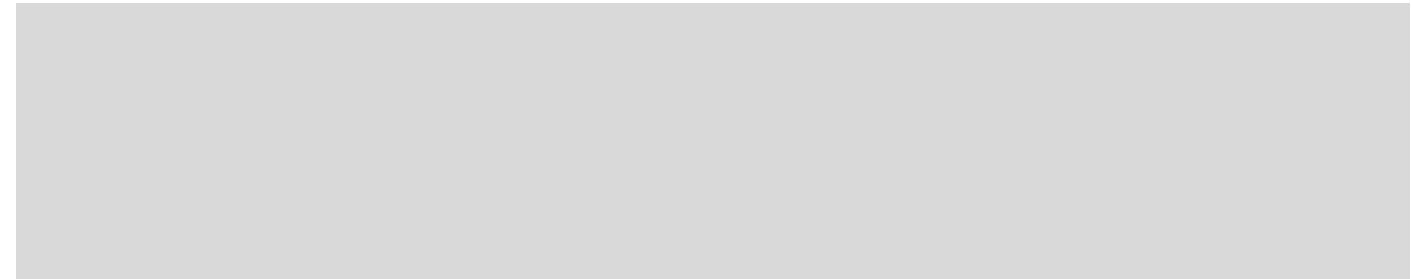
4.5.2 MOUNTAIN MAN GUIDE OUTFITTER SERVICES



4.5.3 ARGO ROAD MAINTENANCE

If the emergency's EPZ extends across or restricts access and egress to provincial highways:

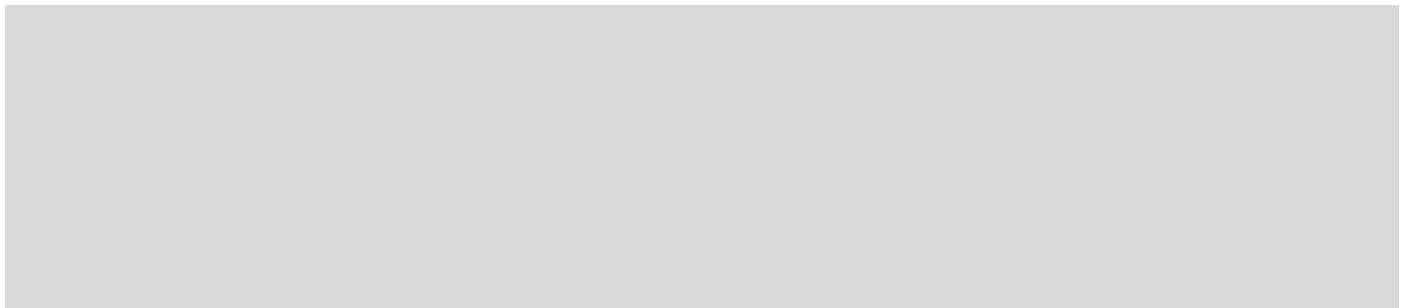
Argo Road Maintenance – contact immediately at Level 1 (to initiate their ERP / find & notify personnel)
24 HOUR EMERGENCY # 1-800-663-7623

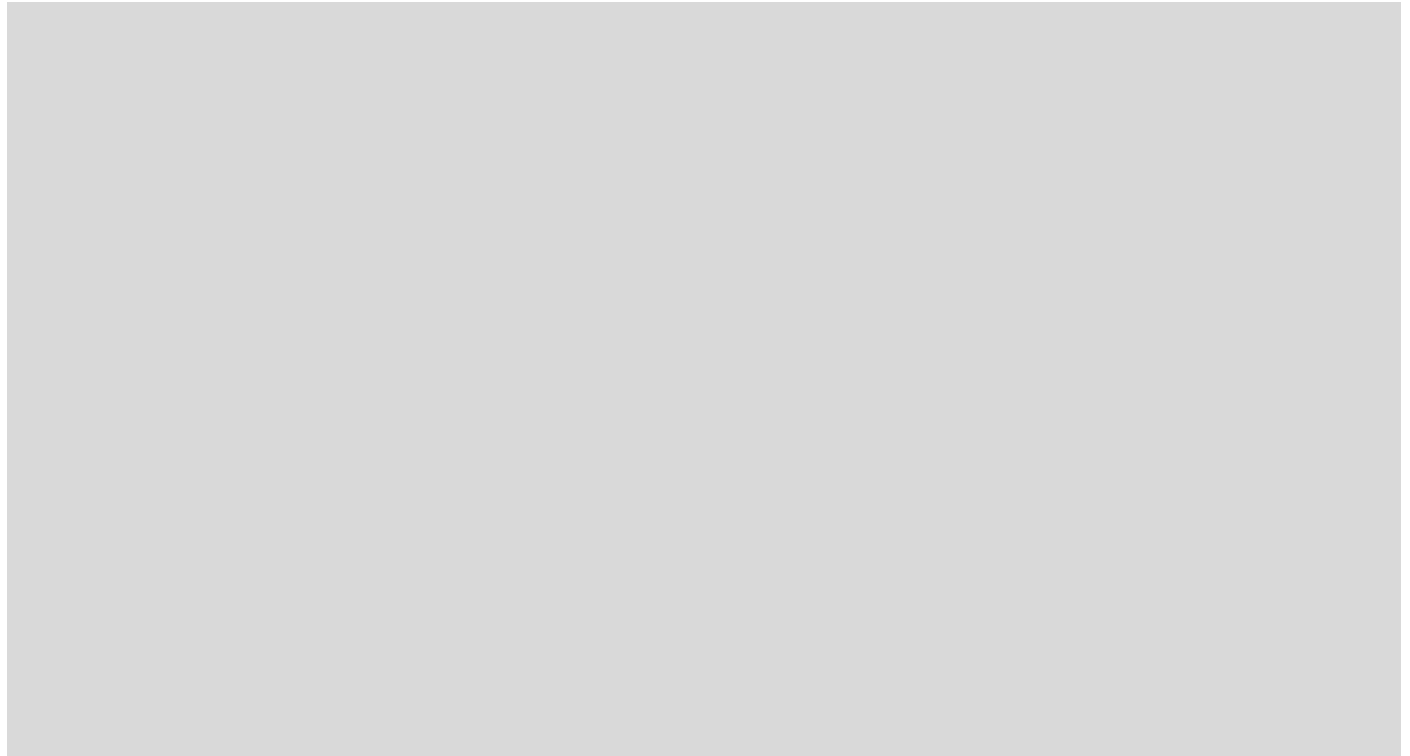


4.5.4 AREA LOGGING – WEST FRASER (2022/ 2023 LOGGING SEASON)

West Fraser is a logging company based out of Chetwynd, BC. Throughout the year they will have logging contractors, tree planting companies & their own personnel working in and around the Planning Zone as required.

CONTACT IMMEDIATELY AT LEVEL 1 – to contact / determine locations / initiate ERP:

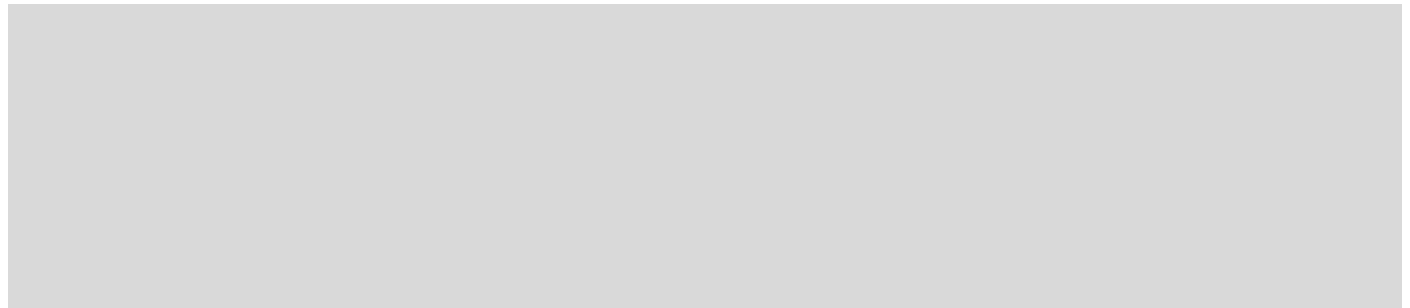




4.5.5 TUMBLER RIDGE GLOBAL GEOPARK AND WOLVERINE NORDIC AND MOUNTAIN SOCIETY (WNMS)

The Tumbler Ridge Geopark is a UNESCO Global Geopark, working with the Wolverine Mountain Nordic Society (WNMS) to promote tourism and research in the Tumbler Ridge area. This area may be used for public tours, scientific research, events and recreation. The Geopark covers an extensive area (8478 square kilometers) around the community of Tumbler Ridge and is based out of the Tumbler Ridge Visitors Centre.

In the event of an emergency in the area the primary contacts are:



See area boundary map below:



24-Hour Emergency 1-888-878-3700

[illegible]

4.6 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		

4.7 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	TELEPHONE NUMBER	
Canlin Energy Corporation	Operators Camps at [REDACTED]	24 Hour	1-866-409-2744
		[REDACTED] Gas Plant	[REDACTED]
Cenovus	Wells and pipelines in the area	24 Hour	1-877-458-8080
Pieridae Energy	Area wells and pipelines	24 Hour	1-866-267-5298
Sukunka Natural Resources Inc.	Area wells and pipelines	24 Hour (CNRL)	1-888-878-3700
Tourmaline Oil Corp.	Wells and pipelines in the area	24-Hour	1-877-504-4252

4.8 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

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER

GUIDE OUTFITTERS

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER

4.9 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			

4.10 FOREST MANAGEMENT AREA(S)

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER
N/A			

4.11 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.			

LOCAL INDIGENOUS NATION / BAND			
NAME	CONTACT	TELEPHONE NUMBER	DESCRIPTION

SECTION 5: GATHERING SYSTEM INFORMATION

5.1	FACILITY INFORMATION.....	1
5.1.1	Facility Summary.....	1
5.1.2	Emergency Control Systems.....	2
5.2	FACILITY, PIPELINE AND WELL INFORMATION	3
5.2.1	Facility Release Rates and Emergency Planning Zones	3
5.2.2	Pipeline List Legend.....	4
5.2.3	Pipeline Release Volumes and Emergency Planning Zones	5
5.2.4	Well Release Rates and Emergency Planning Zones.....	5

5 GATHERING SYSTEM INFORMATION

5.1 FACILITY INFORMATION

5.1.1 FACILITY SUMMARY

Facility Name	
Facility Type	
Facility Code	
Legal Description	
Facility License Number	
Facility Description	

Facility Name	
Facility Type	
Facility Code	
Legal Description	
Facility License Number	
Facility Description	

Facility Name	
Facility Type	
Facility Code	
Legal Description	
Facility License Number	
Facility Description	

Facility Name	
Facility Type	
Facility Code	
Legal Description	
Facility License Number	
Facility Description	



24-Hour Emergency 1-888-878-3700

Facility Name	
Facility Type	
Facility Code	
Legal Description	
Facility License Number	
Facility Description	

[illegible]

EMERGENCY RESPONSE PLAN

Grizzly / Thunder / Ojay

Revision 16-0 | November 30, 2022

24-Hour Emergency 1-888-878-3700

5.2 FACILITY, PIPELINE AND WELL INFORMATION

5.2.1 FACILITY RELEASE RATES AND EMERGENCY PLANNING ZONES

AREA	LOCATION	FACILITY TYPE	LICENSE	FACILITY CODE	SUB	STAT	H ₂ S REL VOL (M ³)	EPZ (m)	E2* EPZ (m)
								8001	n/a
								3470	n/a
								991	n/a
								4799	n/a
								3098	n/a
								980	n/a
								14522	n/a
								1647	n/a
								100	n/a
								100	n/a
								125	n/a
								125	n/a
								125	n/a
								7900	n/a
								100	n/a
								3106	n/a
								2465	n/a
								7256	n/a
								2465	n/a
								14522	n/a

5.2.2 PIPELINE LIST LEGEND

LEGEND		SUBSTANCE / SUB		STATUS / STAT		FROM FACILITY (FAC) / TO FACILITY (FAC)	
LICENSE	License Number	OE	Oil Effluent	O	Operational	PL	Pipeline
LINE	Line Number	FG	Fuel Gas	P	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
MOP	Max Operating Pressure (kPa)	LV	Low Vapour Pressure Products			RI	River
LENGTH	Length of Segment (km)	CO	Crude Oil			LA	Lake
H ₂ S	Licensed Hydrogen Sulphide (mol / kmol)	FW	Fresh Water			S	Satellite
REL VOL	Total H ₂ S Volume Between ESDs (m ³)	SG	Sour Gas			CK	Creek
IIZ	Initial Isolation Zone (km) – <i>applicable only for Alberta</i>	<div>H₂S CONVERSION:</div> <div>1% = 10 mol / kmol = 10,000 ppm</div>				BE	Blind End
SET EPZ	Emergency Planning Zone (m)					B	Battery
ESD	Emergency Shut Down Valve					CS	Compressor Station
CV	Check Valve					MS	Meter Station

NOTE: Abandoned assets are not included

5.2.3 PIPELINE RELEASE VOLUMES AND EMERGENCY PLANNING ZONES

NOTES: • Pipelines are sorted by From Location

Provincial LICENSE OR CER Order Number	Accumap Number	Line	Licensee	Sub	Stat	From Location	From (Fac.)	To Location	To (Fac.)	OD (mm)	WT (mm)	MOP (kPa)	H2S (mol/ kmol)	Length (km)	H2S Rel. Vol. (m3)	Set EPZ (m)
																470
																980
																980

*** CER REGULATED PIPELINE:**

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.

5.2.4 WELL RELEASE RATES AND EMERGENCY PLANNING ZONES

NOTES: • No well information required

SECTION 6: MAPS & PUBLIC INFORMATION PACKAGE

6	MAPS & PUBLIC INFORMATION PACKAGE	1
6.1	SITE SPECIFIC ERP MAP.....	1
6.2	PUBLIC INFORMATION PACKAGE.....	1

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.

How to cross reference the surface developments labels on the ERP map with Resident and Organization lists:

- Surface developments (buildings / structures / public use) within subdivisions are referred to in the lists as the following:
 - [redacted] – [redacted]
- All other surface developments are referenced as “map area, grid – number” (e.g. [redacted], etc.)

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