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	EMERGENCY RESPONSE ASSISTANCE CANADA (ERAC) EMERGENCY NO. 1-800-265-0212 ERAP # [REDACTED]	

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


AREA NAME	LOCATION	DESCRIPTION
Ring Border	[REDACTED]	Gas plant
Ring Border	[REDACTED]	Gas plant
Ring Border	[REDACTED]	NEB regulated pipeline NEB Order # AO-1-XG-14-90 MO-106-2014
North Dahl	[REDACTED]	Compressor station
Ring Dahl	[REDACTED]	Compressor station
Gutah	[REDACTED]	Compressor station
Dahl	[REDACTED]	Compressor
Lapp	[REDACTED]	Compressor
Kahntah	[REDACTED]	Shut-in gas plant
Zaremba	[REDACTED]	Suspended battery

Redacted – NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security

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RING BORDER

EMERGENCY RESPONSE ASSISTANCE CANADA (ERAC)

EMERGENCY NO. 1-800-265-0212

ERAP # [REDACTED]

REV. 3-0
MARCH 29, 2018

AREA NAME AND LOCATION:

Ring Border c-81-I/94-H-9

COMPLETED BY:

EP Group

DATE:

March 29, 2018

IDENTIFY HAZARD	HAZARD AFFECTS					WHAT MITIGATION MEASURES ARE AVAILABLE / NEEDED
	PUBLIC <i>(i.e.: residents, First Nations, trappers, transients, industry)</i>	ENVIRONMENT		COMPANY ASSETS	RISK RANKING	
		LAND USE <i>(i.e.: vegetation, forest, etc.)</i>	WILDLIFE / LIVESTOCK			
HAZARD	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Indicate Low / Med / Critical	ENGINEERING CONTROLS / EQUIPMENT / RESOURCES

**Redacted – NEB Order AO-001-MO-006-2016,
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EMERGENCY RESPONSE ASSISTANCE CANADA (ERAC)

EMERGENCY NO. 1-800-265-0212

ERAP # [REDACTED]

REV. 3-0
MARCH 29, 2018

AREA NAME AND LOCATION:

Ring Border c-81-I/94-H-9

COMPLETED BY:

EP Group

DATE:

March 29, 2018

IDENTIFY HAZARD	HAZARD AFFECTS				RISK RANKING	WHAT MITIGATION MEASURES ARE AVAILABLE / NEEDED
	PUBLIC <i>(i.e.: residents, First Nations, trappers, transients, industry)</i>	ENVIRONMENT		COMPANY ASSETS		
LAND USE <i>(i.e.: vegetation, forest, etc.)</i>		WILDLIFE / LIVESTOCK			Indicate Low / Med / Critical	
HAZARD	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>		ENGINEERING CONTROLS / EQUIPMENT / RESOURCES

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March 29, 2018

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LAND USE <i>(i.e.: vegetation, forest, etc.)</i>		WILDLIFE / LIVESTOCK			Indicate Low / Med / Critical	
HAZARD	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>		ENGINEERING CONTROLS / EQUIPMENT / RESOURCES

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ERAP # [REDACTED]

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AREA NAME AND LOCATION:

Ring Border c-81-I/94-H-9

COMPLETED BY:

EP Group

DATE:

March 29, 2018

IDENTIFY HAZARD	HAZARD AFFECTS				RISK RANKING	WHAT MITIGATION MEASURES ARE AVAILABLE / NEEDED
	PUBLIC <i>(i.e.: residents, First Nations, trappers, transients, industry)</i>	ENVIRONMENT		COMPANY ASSETS		
LAND USE <i>(i.e.: vegetation, forest, etc.)</i>		WILDLIFE / LIVESTOCK			Indicate Low / Med / Critical	
HAZARD	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>		Yes <i>If applicable</i>	ENGINEERING CONTROLS / EQUIPMENT / RESOURCES

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AREA NAME AND LOCATION:

Ring Border c-81-I/94-H-9

COMPLETED BY:


EP Group

DATE:

March 29, 2018

IDENTIFY HAZARD	HAZARD AFFECTS					WHAT MITIGATION MEASURES ARE AVAILABLE / NEEDED
	PUBLIC <i>(i.e.: residents, First Nations, trappers, transients, industry)</i>	ENVIRONMENT		COMPANY ASSETS	RISK RANKING	
LAND USE <i>(i.e.: vegetation, forest, etc.)</i>		WILDLIFE / LIVESTOCK	HAZARD			HAZARD
HAZARD	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Yes <i>If applicable</i>	Indicate Low / Med / Critical	ENGINEERING CONTROLS / EQUIPMENT / RESOURCES

Redacted – NEB Order AO-001-MO-006-2016,
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1 SITE-SPECIFIC DISTRIBUTION LIST

1.1 INTERNAL COPIES

COPY #	RECIPIENT	POSITION	LOCATION	CONFIDENTIAL INFORMATION INCLUDED (✓)
1	Ring Border Plant	Site	[REDACTED]	
2	[REDACTED]	Area Foreman	Fort St. John Office	✓
3	[REDACTED]	Assistant Foreman	[REDACTED]	✓
	[REDACTED]	Assistant Foreman		
4	Lapp Compressor	Site	[REDACTED]	
5	Dahl Compressor	Site	[REDACTED]	
6	[REDACTED]	Operations Superintendent	Fort St. John Office	✓
7	[REDACTED]	Area Safety & Compliance Coordinator	Fort St. John Office	
8	[REDACTED]	Surface Landman	Fort St. John Office	✓
9	[REDACTED]	Manager, Northern Field Operations	Calgary Office	
10	Emergency Response Mobile Cart	Emergency Response Mobile Cart	Calgary Office	
11	Calgary Office Command Centre	Calgary Office Command Centre	Calgary Office – BHE 26002	
*	Roadblock Kit	Site	[REDACTED]	
*	Roadblock Kit	Site		
*	Roadblock Kit	Site		
*	Roadblock Kit	Site		
*	<i>Roadblock Role Checklist and Information, Roadblock Control Log and Map only</i>			

Redacted: NEB Order AO-001-MO-006-2016, s. 1.a.i. – Personal Information
NEB Order AO-001-MO-006-2016, s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security

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REV. 3-0
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1.2 EXTERNAL COPIES

COPY #	RECIPIENT	ORGANIZATION	LOCATION
12	Emergency Response Safety Inspector	BC Oil and Gas Commission	6534 Airport Road Fort St. John BC V1J 4M6
SFTP	British Columbia Oil and Gas Commission	British Columbia Oil and Gas Commission	[REDACTED]
13	NEB – Hard Copy	National Energy Board	201, 517 – 10 Avenue SW Calgary AB T2R 0A8
CD	NEB – Electronic Copy		
Email	[REDACTED] Protective Services Manager	Peace River Regional District	[REDACTED]
Email	[REDACTED] Director of Emergency Management	County of Northern Lights	[REDACTED]
Email	[REDACTED] HEMBC Director	Health Emergency Management BC (HEMBC) / Northern Health	[REDACTED]
Email	[REDACTED] Director Environmental Public Health	Alberta Health Services – North Zone	[REDACTED]

Redacted – NEB Order AO-001-MO-006-2016, s. 1.a.i. – Personal Information

SFTP	Submitted electronic copy of ERP via BC OGC's Secure File Transfer Protocol site
Email	Received an electronic copy of the complete Emergency Response Plan
CD	Received a copy of the complete Emergency Response Plan on CD

EXTERNAL ERP DISTRIBUTION DISCLAIMER


Please note that Canadian Natural is attempting to reduce our environmental impact and streamline our distribution processes, therefore we will no longer be forwarding our emergency response plan documents in hard copy form. The Site Specific ERP and Public Information Package will be forwarded to you **electronically as PDF documents**, while our Corporate ERP can be found on our website here:

<https://www.cnrl.com/corporate-responsibility/health-and-safety/emergency-management>

Please disregard any attachments that you do not require. Thank you.

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

- Residents / Businesses
- Public Facilities
- Registered Trappers
- Grazing Lease Holders
- Grazing Reserves
- Forestry Management Areas

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1.3 AMENDMENT RECORD

AMENDMENT PROTOCOL

Canadian Natural is committed to the continuous improvement of its documentation. The Emergency Management Team is responsible for the maintenance and distribution of the Corporate Emergency Response Plan (ERP) and Site-Specific ERPs on an on-going basis. Canadian Natural’s Senior Management has overall accountability and authority for these documents.

Canadian Natural’s ERPs are subject to annual reviews and updates at minimum by Emergency Management Team and more often if major changes are required. All contact information is subject to a continuous review and any changes made will be distributed on an annual basis or more frequently if required.

Notification of errors will be reviewed immediately and addressed according to significance. Any suggestions for improvements will be considered for the next update by the Emergency Management Team. The notification of error and / or suggestion for improvement should include a) the ERP name, b) section(s) and page number(s) affected and c) the rationale (for suggestions for improvement). This information should be directed to:

Canadian Natural Resources Limited

2100, 855 – 2 Street SW, Calgary, Alberta T2P 4J8


Attention: [REDACTED]

Email: [REDACTED]

Phone: [REDACTED] Fax: [REDACTED]

**Redacted – NEB Order AO-001-MO-006-2016
s. 1.a.i. – Personal Information**

DATE	DETAILS	CHANGED BY
November 2015	Rev 0-0 <ul style="list-style-type: none"> Acquired property from ConocoPhillips Gathering system reviewed and area ground truthed 	[REDACTED]
March 2016	Rev 1-0 <ul style="list-style-type: none"> Annual update Reviewed / updated all contact information Added All Hazards information 	[REDACTED]
April 2017	Rev 2-0 <ul style="list-style-type: none"> Annual update Reviewed / updated all contact information Added NEB required information 	[REDACTED]
March 29, 2018	Rev 3-0 <ul style="list-style-type: none"> Annual update Reviewed / updated all contact information Gathering system reviewed and updated accordingly 	[REDACTED]

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2 GENERAL INFORMATION

2.1 EMERGENCY RESPONSE PLAN (ERP) INTRODUCTION AND SUMMARY

2.1.1 FACILITY LOCATION


FACILITY LOCATION	Ring Border [REDACTED]	
PHONE NUMBERS	NUMBER	DESCRIPTION
	250-774-3004 Ext 22	Office
	N/A	Fax

DISTRICT OFFICE	Fort St. John District Office	
PHONE NUMBERS	NUMBER	DESCRIPTION
	250-785-3085	Office
	250-785-3055	Fax
	[REDACTED]	On-Call Pager

2.1.2 INCIDENT COMMAND POST (ICP) / EMERGENCY OPERATIONS CENTRE

DISTRICT OFFICE MAILING ADDRESS	6744 Airport Road Fort St. John BC V1J 4M9	
PHONE NUMBERS	NUMBER	DESCRIPTION
	250-785-3085	Office
	250-785-3055	Fax
	[REDACTED]	On-Call Pager

Redacted –NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security


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2.1.3 GENERAL LAND USE AND POPULATION DENSITY

Local Municipality		Peace River Regional District County of Northern Lights
Land Use of Area Surrounding Facility		Hunting, trapping and oil and gas operations
POPULATION DENSITY (WITHIN EPZ)		
NUMBER	TYPE	DESCRIPTION
0	Residences	
0	Businesses / Organizations	
0	Public Facilities / Recreational Areas	
10	Traplins	[REDACTED]
0	Forest Management Areas	
0	Grazing Leases / Reserves	
0	First Nations Groups	
0	Lakes / Rivers	
0	Public Highways	
0	Other	

2.1.4 SAFE LOCATIONS


On-Site Muster Area	Upwind side of incident
Off-Site Staging Area	Depending on Emergency Location

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2.1.5 EMERGENCY EQUIPMENT


TYPE	QUANTITY	LOCATION / NOTES
Personal Gas Monitor		Each operator
First Aid Kit		Each operator's truck
First Aid Station	1	[REDACTED]
First Aid Room	1	[REDACTED]
Burn Kit	1	[REDACTED]
Eye Wash Station (15 min flow)		
Eye Wash Station (1 litre bottle)		Each operator's truck
Fire Extinguisher		[REDACTED] Each operator's truck
Ignition Equipment	1	[REDACTED]
Portable Gas Detector		
SABA		
SCBA	2	[REDACTED]
Wheeled Fire Extinguisher		
Fire Blanket		

Redacted –NEB Order AO-001-MO-006-2016,
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 Canadian Natural	CANADIAN NATURAL 24-HOUR EMERGENCY 1-888-878-3700	PAGE 14 OF 49
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2.1.6 EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID

<p>Canadian Natural maintains emergency response support / mutual aid understandings with local authorities impacted by this ERP and information from these agreements are included in the tables below. These agreements 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:</p> <ul style="list-style-type: none"> • 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
<p>EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL MUNICIPALITIES</p> <p>PEACE RIVER REGIONAL MUNICIPALITY - BC Contacted [REDACTED], Protective Services Manager via email on November 20, 2017.</p> <p>The Peace River Regional District will be notified at any time an emergency occurs that involves the evacuation of residents.</p> <p>It is essential that Canadian Natural’s Incident Commander maintain communication with Peace River Regional District Protective Services Manager to ensure that responses are coordinated.</p> <p>The Peace River Regional District has a formal Emergency Management Plan, which 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 achieve any of the following:</p> <ul style="list-style-type: none"> • Dispatch representative(s) to the OGC Emergency Operations Centre (EOC), if established • Provide support to ensure notification 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 Alert, Order and Rescind • Assist in a public information service (joint OGC, industry, local government) • Provide building re-entry procedures

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2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)

<p>EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL MUNICIPALITIES</p> <p>COUNTY OF NORTHERN LIGHTS</p> <p>Contacted [REDACTED], Director of Emergency Management via e-mail on November 20, 2017.</p> <p>In accordance with Emergency Management Alberta, the County of Northern Lights and the Town of Manning have established a Municipal Emergency Management Joint Services Agency. The Director of Emergency Management is responsible for fulfilling the obligations of this position pursuant to the County and the Town of Manning Municipal Emergency Management bylaws.</p> <p>Part of this mandate is the development and coordination of an overall program of preparedness for response to, recovery from, emergencies and disasters as well as assisting other municipalities to develop and maintain a high level of emergency preparedness.</p> <p>The County of Northern Lights participates in the Peace Region Mutual Aid Agreement along with Northern Sunrise County, MDs of Smoky River and Peace, the Towns of Peace River, Falher, Grimshaw, McLennan and High Level and the Villages of Donnelly, Nampa and Berwyn. This agreement provides for reciprocal support from all participants in the event that one party does not have adequate resources to deal with an emergency.</p>
<p>EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL HEALTH SERVICES</p> <p>HEALTH EMERGENCY MANAGEMENT BC (HEMBC) / NORTHERN HEALTH (NH)</p> <p>Contacted [REDACTED], HEMBC Director via e-mail on November 20, 2017.</p> <ul style="list-style-type: none"> • 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 <p>NH Roles and Responsibilities - RESPONSE</p> <ul style="list-style-type: none"> • Activate internal health emergency management plans related to ongoing provision of services as listed above • Provide acute care and emergency services at existing Northern Health Hospitals / Health Centre's • 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

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2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)

HEALTH EMERGENCY MANAGEMENT BC (HEMBC) / NORTHERN HEALTH (NH) (CONTINUED)

NH Roles and Responsibilities – PREPAREDNESS (pre-event)

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


NOTE: BC Emergency Services (BCEHS – Ambulance) remains independent of Northern Health. If an ambulance is required please contact BCEHS via 9-1-1 or the local contact number if 9-1-1 is not available in your area.

ALBERTA HEALTH SERVICES – NORTH ZONE

Contacted [REDACTED], Director of Environmental Public Health via e-mail on November 20, 2017.


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 AHZ 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 matter 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.

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2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)


<p>MUTUAL AID</p> <p>LOCAL MUNICIPALITIES</p> <p>Any time an emergency occurs that involves the evacuation of more people than Canadian Natural personnel can handle, Northern Rockies Regional Municipality and Mackenzie County will be notified to assist. It is essential that Canadian Natural’s Incident Commander maintain communication with Northern Rockies, Emergency Program Coordinator and the County’s Chief Administrative Officer to ensure that responses are coordinated.</p> <p>LOCAL RCMP DETACHMENTS</p> <p><i>No consultation with local detachments required as per RCMP K Division (Alberta) March 30, 2017 and as per British Columbia Oil & Gas Regulations.</i></p> <p>The local RCMP detachments of Northern Rockies (BC) and Manning (AB):</p> <ul style="list-style-type: none"> • 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 <p>OTHER INDUSTRIAL OPERATORS</p> <p>Other pipeline licensees that operate in the EPZ, but are not tied into Canadian Natural’s gathering systems will be responsible for their own emergency response actions as required. These licensees are listed in the Public Notifications, Industrial Operators section, along with their emergency contact numbers.</p> <p>It is generally understood that in the event of an emergency if another industrial operator is the first to identify the situation their initial response will be to notify Canadian Natural immediately. If Canadian Natural personnel are the first ones to identify the emergency, they will immediately notify all other industrial operators that may be affected.</p> <p>Canadian Natural would provide First Responder actions for an emergency involving other operated assets, with immediate notification to the well or the pipeline licensee.</p> <p>Canadian Natural does not currently participate in any formal mutual aid agreements with other industrial operators for this ERP; however, reciprocal emergency response assistance on a service level may be possible in the event of an emergency, depending on equipment / personnel resources and availability.</p> <p>There are no other industrial operators in the Ring Border Area.</p>
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2.1.7 DRIVING DIRECTIONS AND MAP

DRIVING ROUTE				
From Fort St. John [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]				
NOTE: [REDACTED] [REDACTED]				
PROXIMITY TO NEAREST URBAN CENTRE				
[REDACTED] [REDACTED]				
LATITUDE AND LONGITUDE COORDINATES				
Ring Border [REDACTED] Plant	LATITUDE	[REDACTED]	LONGITUDE	[REDACTED]

Redacted –NEB Order AO-001-MO-006-2016,
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2.1.8 SPECIAL CONSIDERATIONS FOR EMERGENCY RESPONSE

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 the contract services section of this manual.


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

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2.2 EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS

PRESENT AT [REDACTED]	TYPE	DESCRIPTION
Y	24-Hour Emergency Phone 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 – 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 & 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	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	H ₂ S 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.

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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. In the event that more portable radios are required than are available, contact should be made with service providers as listed below or in the Contract Services section “Safety Services / Communication Equipment.”


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 areas. In these cases, signals can be re-established by moving to high ground.
Two-Way Radios	Available in the area using the frequencies listed below.
Land Line	Available at the Ring Border facility.

2.3.2 RADIO FREQUENCIES

NAME	RECEIVE NUMBER	TRANSMIT NUMBER
Canadian Natural Repeater	[REDACTED]	[REDACTED]
Ring Border Reid Tower	[REDACTED]	[REDACTED]

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3 CONTACTS AND TELEPHONE LISTS

3.1 COMPANY EMERGENCY NUMBERS

POSITION	NAME	CELL	OFFICE
Area Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Assistant Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Assistant Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Operations Superintendent	[REDACTED]	[REDACTED]	[REDACTED]
Area Safety & Compliance Coordinator	[REDACTED]	[REDACTED]	[REDACTED]
Surface Landman	[REDACTED]	[REDACTED]	[REDACTED]
Health & Safety Manager	[REDACTED]	[REDACTED]	[REDACTED]
Emergency Management Lead	[REDACTED]	[REDACTED]	[REDACTED]
Manager, Northern Field Operations	[REDACTED]	[REDACTED]	[REDACTED]
Vice President, West Field Operations	[REDACTED]	[REDACTED]	[REDACTED]
Calgary Command Centre	Room 26002		[REDACTED]


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3.2 MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATIONS DETAILS CHART)

NAME	LOCATION	TELEPHONE	
FEDERAL			
National Energy Board (NEB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Online Event Reporting System (OERS)		https://apps.neb-one.gc.ca/ers
	Incident Line (all other incidents)		24-Hour 403-807-9473
	Calgary Office		Main 403-292-4800
Transportation Safety Board (TSB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Reporting Hotline		24-Hour 1-819-997-7887
			Fax 1-819-953-7876
	Email Address		<i>PipelineNotifications@tsb.gc.ca</i>
BRITISH COLUMBIA			
Emergency Management BC	Prince George BC	24-Hour Incident Reporting	1-800-663-3456
		Office	250-612-4172
BC Oil and Gas Commission	Province-Wide	24-Hr Incident Reporting	1-800-663-3456
	Fort St. John BC	Office	250-794-5200
Peace River Regional District	Dawson Creek BC	Industry 24-Hour Emergency	1-800-663-3456
		Office	250-784-3200
Health Emergency Management BC (HEMBC)	Northern BC	24-Hour Emergency	[REDACTED]
	Northern BC	Non-emergency inquiries only (HEMBC Director)	[REDACTED]
RCMP – Fort St. John Detachment	Fort St. John BC	24-Hour	250-787-8140


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3.2 MANDATORY NOTIFICATIONS (CONTINUED)

NAME	LOCATION	TELEPHONE	
FEDERAL			
National Energy Board (NEB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	<i>Online Event Reporting System (OERS)</i>	<i>https://apps.neb-one.gc.ca/ers</i>	
	Incident Line (all other incidents)	24-Hour	403-807-9473
	Calgary Office	Main	403-292-4800
Transportation Safety Board (TSB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Reporting Hotline	24-Hour	1-819-997-7887
		Fax	1-819-953-7876
	<i>Email Address</i>	<i>PipelineNotifications@tsb.gc.ca</i>	
ALBERTA			
Energy & Environmental Response Line To be used to contact Alberta Environment / Alberta Energy Regulator (AER)	Province-Wide	24- Hour	1-800-222-6514
	Grande Prairie Field Centre	24-Hour	780-538-5138
County of Northern Lights	Manning AB	Industry 24-Hour Emergency	780-836-0158
		Office	780-836-3348
Alberta Health Services	Province-Wide	24-Hour	1-844-755-1788
		Email	[REDACTED]
RCMP – Manning Detachment	Manning AB	24-Hour	9-1-1
		Office	780-836-3007


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3.3 PROVINCIAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE	
BRITISH COLUMBIA			
Emergency Management BC	Prince George BC	24-Hr Incident Reporting	1-800-663-3456
		Office	250-612-4172
BC Oil and Gas Commission	Province-Wide	24-Hr Incident Reporting	1-800-663-3456
	Fort St. John BC	Office	250-794-5200
Health Emergency Management BC (HEMBC)	Northern BC	24-Hour Emergency	[REDACTED]
	Northern BC	Non-emergency inquiries only (HEMBC Director)	[REDACTED]
Ministry of Environment: Fish and Wildlife	Province-Wide	Report All Poachers and Polluters (RAPP)	1-877-952-7277
Ministry of Forests and Range: Forests and Range	Fort Nelson BC	Office	250-774-5511
Forest Fire Reporting Only	Province-Wide	24-Hour	1-800-663-5555
Ministry of Transportation: Provincial Roads, Highways and Bridges	Fort St. John BC	Office	250-787-3237
Area 22 - North Peace Maintenance Contractors Yellowhead Road & Bridge (North Peace) Ltd.	Fort St. John BC	24-Hour Emergency	1-888-883-6688
WorkSafeBC	Province-Wide	Emergency - Office hours	1-888-621-7233
		Emergency – After hours	1-866-922-4357


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3.3 PROVINCIAL GOVERNMENT CONTACTS (CONTINUED)

NAME	LOCATION	TELEPHONE	
ALBERTA			
Energy & Environmental Response Line To be used to contact Alberta Environment / Alberta Energy Regulator (AER)	Province-Wide	24-Hour	1-800-222-6514
	Grande Prairie Field Centre	24-Hour	780-538-5138
Alberta Emergency Management Agency	Edmonton AB	24-Hour	1-866-618-2362
Alberta Environment and Parks (AEP) Fish & Wildlife	Report a Poacher	24-Hour	1-800-642-3800
	Vermilion AB	Office	780-853-8137
Alberta Environment and Parks (AEP) Wildfire Reporting	Toll Free	24-Hour	1-866-394-3473
	Province-Wide	24-Hour	403-310-3473
Alberta Agriculture and Forestry (AAF) – Forest Protection	High Level AB	Office	780-926-3761
Alberta Environment and Parks (AEP) - Lands & Forests	Rainbow Lake AB	Office	780-956-3919
Alberta Transportation	Edmonton AB	24-Hour	1-800-272-9600
Alberta Health Services	Province-Wide	24-Hour	1-844-755-1788
		Email	[REDACTED]
Occupational Health & Safety	Province-Wide	24-Hour	1-866-415-8690
Workers' Compensation Board	Province-Wide	24-Hour	1-866-922-9221

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3.4 EMERGENCY SERVICE NUMBERS

NAME	LOCATION	TELEPHONE NUMBER	
BRITISH COLUMBIA			
RCMP – Fort St. John Detachment	Fort St. John BC	Office	780-787-8140
Hospitals	Fort Nelson General Hospital Fort Nelson BC	24-Hour	250-774-8100
	Fort St. John Hospital Fort St. John BC	24-Hour	250-262-5200
British Columbia Ambulance Service	Province-Wide	Cell / SAT Phone Outside BC	1-800-461-9911
		Outside BC	250-374-5937
Fire Department – Northern Rockies	Fort Nelson BC	24-Hour	250-774-2222
Fire Department – Fort St. John	Fort St. John BC	24-Hour	250-785-4333
ALBERTA		ALL EMERGENCY SERVICES CALL 9-1-1	
RCMP – Manning Detachment	Manning AB	24-Hour	9-1-1
		Office	780-836-3007
Hospital	Northwest Health Centre High Level AB	24-Hour	780-841-3200
Ambulance	Aeromedical Emergency Services Ltd. High Level AB	24-Hour	780-926-2166
Fire Department	High Level AB	24-Hour	780-926-3192

3.5 TDG / LPG (PROPANE AND BUTANE) EMERGENCY NUMBERS

NAME	CONTACT	TELEPHONE NUMBER	
Transport Canada (CANUTEC) – TDG Emergencies	Call Centre	24-Hour	613-996-6666
Emergency Response Assistance Canada (ERAC) Canadian Natural ERAP Number: [REDACTED]	Call Centre (Propane and butane emergencies only)	24-Hour	1-800-265-0212

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3.6 MUNICIPAL GOVERNMENT CONTACTS (FOR NOTIFICATION PURPOSES ONLY)

NAME	LOCATION	TELEPHONE NUMBER	
Peace River Regional District	Dawson Creek BC	Industry 24-Hour Emergency	1-800-663-3456
		Office	250-784-3200
County of Northern Lights	Manning AB	Industry 24-Hour Emergency	780-836-0158
		Office	780-836-3348


3.7 FEDERAL GOVERNMENT CONTACTS

NAME	LOCATION	CONTACT INFORMATION	
National Energy Board (NEB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Online Event Reporting System (OERS)	https://apps.neb-one.gc.ca/ers	
	Incident Line (all other incidents)	24-Hour	403-807-9473
	Calgary AB	Office	403-292-4800
Transportation Safety Board (TSB) <i>See Forms & Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Reporting Hotline	24-Hour	1-819-997-7887
		Fax	1-819-953-7876
	Email Address	PipelineNotifications@tsb.gc.ca	
Indian Oil & Gas Canada	Tsuu T'ina AB	Office	403-292-5625
		Fax	403-292-5618
First Nations, Health Authority	Prince George BC	Office	250-561-5370
		Fax	250-561-5369
Environment Canada <i>(will be notified through the respective provincial or territorial government)</i>	Emergency Management BC	24-Hour	1-800-663-3456
	Alberta Environment and Parks	24-Hour	1-800-222-6514

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3.8 CONTRACT SERVICES

COMPANY	LOCATION	TELEPHONE NUMBER	
AIR QUALITY MONITORING			
Alberta Energy Regulator (Not a contract service)	Province-Wide	24-Hour	1-800-222-6514
Firemaster Oilfield Services Inc.	Province-Wide	24-Hour	403-342-7500
HSE Integrated Ltd.	Province-Wide	24-Hour	1-888-346-8260
Promet Environmental Group Ltd.	Province-Wide	24-Hour	1-877-577-6638
Trojan Safety Services	Province-Wide	24-Hour	250-785-9557 1-877-785-9558
AIRCRAFT / HELICOPTERS			
Airco Aircraft Charters	Edmonton AB	24-Hour	780-890-7780
Bailey Helicopters	Fort St. John BC	24-Hour	250-785-2518
	Fort Nelson BC	24-Hour	250-774-3555
Canadian Helicopters Ltd.	Western Canada	24-Hour	780-429-6900
Central Mountain Air	Western Canada	24-Hour	1-866-731-7992 1-888-835-9262
North Cariboo Air	Edmonton AB	24-Hour	1-866-359-6222
OpsMobil Inc.	Whitecourt AB	Toll free	1-888-496-3222
Qwest Helicopters Inc.	Fort Nelson BC	24-Hour	250-774-5302
SAFETY SERVICES / COMMUNICATION EQUIPMENT			
HSE Integrated Ltd.	Province-Wide	24-Hour	1-888-346-8260
Trojan Safety Services	Province-Wide	24-Hour	250-785-9557 1-877-785-9558
United Safety Ltd.	Province-Wide	24-Hour	1-800-432-1809
WELL BLOWOUT CONTROL			
Firemaster Oilfield Services	Province-Wide	24-Hour	403-342-7500
HSE Integrated Ltd.	Province-Wide	24-Hour	1-888-346-8260
Safety Boss Inc.	Province-Wide	24-Hour	1-800-882-4967

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3.8 CONTRACT SERVICES (CONTINUED)

COMPANY	LOCATION	TELEPHONE NUMBER	
WESTERN CANADIAN SPILL SERVICES (WCSS) - AREA "C"		24-HOUR EMERGENCY 1-866-541-8888	
Area "C" Coop Chairman Carl Reimer, Enbridge Pipelines Inc.	Fort St. John BC	Cell	250-262-8752
		Office	250-262-3456
Regional Custodian			
Shawn Dorie, Clean Harbors	Fort St. John BC	Cell	250-261-9404
		Office	250-785-4577
Coop Custodian			
Eric Pike, Clean Harbors	Fort Nelson BC	24-Hour	250-233-8811

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4 PUBLIC NOTIFICATIONS

4.1 AUTOMATED PUBLIC NOTIFICATION SYSTEM – NOT APPLICABLE

CommAlert	
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4.2 NOTIFICATION PROCEDURES

If an emergency occurs that involves only a few residents, 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.

If an emergency occurs that involves too many residences for Canadian Natural personnel to notify in a timely manner, an automated public notification system as noted above will be activated, if applicable to this plan. The following procedures will be used:


1. Prior to activating CommAlert, obtain and complete *Guideline 10: CommAlert Standard Operating Procedures (SOP)* from the Guidelines section (orange tab) of the Corporate ERP. If this form is unavailable, prepare the following information:
 - a. Identify the name of the **Emergency Response Plan**
 - b. Identify which **map quadrants** and **house letters or numbers** are affected by the emergency
 - c. Identify which **message** is to be relayed (either shelter-in-place or evacuation)
 - d. Identify which **Reception Center** should be activated
2. Contact CommAlert and inform them that a call-out is required. CommAlert will follow their SOP and ask for the information required.
3. After the call-out, CommAlert will send a report of the results within the timeframe specified, by either e-mail (default) or fax. The report will include the residents who responded they would evacuate immediately or stay in their homes (shelter), which residences require assistance and which residents did not respond to the message.
4. Dispatch Rovers to those residences requiring assistance. Residents who did not respond to CommAlert's notification will need to be contacted by a Telephone Caller or a Rover.
5. Once the emergency has been resolved, instruct CommAlert and / or Telephone Callers to relay the All Clear message.

The three (3) message choices that can be sent automatically by the automated public notification system are:

SHELTERING MESSAGE

This is the Canadian Natural emergency communication system. We are calling to advise you that we are experiencing operational difficulties near your residence. You are in no immediate danger; however we advise that you take shelter and remain indoors until we have called you with an All Clear message. Until then, stay inside and close and lock all windows and outside doors. Turn off all appliances and equipment with exterior vents and turn down your furnace to the minimum setting. We ask that you limit the use of your phone so that we can call you with further information. Please listen to the following menu:

- If you will remain in your home until you receive an All Clear message please press 1.
*System response: Thank you we have received your response.
- If you do not wish to remain in your home, please press 2 to have a Canadian Natural representative call you with further instructions.
*System response: Thank you we have received your response.
- To replay this message, please press 3.

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4.2 NOTIFICATION PROCEDURES (CONTINUED)

EVACUATION MESSAGE

This is the Canadian Natural emergency communication system. We are calling to advise you that we have encountered operational difficulties near your residence. For your safety, we are requesting that you leave the area and proceed to the _____ Reception Centre at _____. It is very important that you check in at this Reception Centre so that we can provide you with more information. Please listen to the following menu:

- If you will proceed to the Reception Centre, **please press 1**. Your concerns will be addressed at that time.
**System response: Thank you we have received your response.*
- If you require assistance to evacuate, **please press 2**. Keep all your windows and outside doors closed and locked and other outside vents shut. Please remain indoors and limit the use of your phone until we can contact you to see what help you need or that help has arrived.
**System response: Thank you we have received your response.*
- To replay this message, please press 3.

ALL CLEAR MESSAGE

This is the Canadian Natural emergency communication system. We are calling to advise you that we have resolved the operational difficulties we experienced in your area. There is no longer any cause for concern. We apologize for any inconvenience this situation may have caused. Please listen to the following menu:

- To let Canadian Natural know that you have received this message, **please press 1**.
**System response: Thank you we have received your response.*
- To replay this message, please press 2.

4.3 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 out of the Emergency Planning Zone.


RECEPTION CENTRE	LOCATION	TELEPHONE NUMBER
Lakeview Inn & Suites	4507 – 50 Avenue S Fort Nelson BC V0C 1R0	250-233-5001
Noralta Motor Inn	101 Rainbow Drive East Rainbow Lake AB T0H 2Y0	780-956-5665

4.4 RESIDENT INFORMATION

There are no residents impacted by this Emergency Response Plan.

4.5 BUSINESS / PUBLIC FACILITY INFORMATION

There are no businesses or public facilities impacted by this Emergency Response Plan.

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4.6 SCHOOL DIVISION(S) / SCHOOL(S)

There are no school divisions / schools / school children impacted by this Emergency Response Plan.

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 Emergency Planning Zone (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(s):

INDUSTRIAL OPERATOR NAME	OPERATIONS DESCRIPTION	TELEPHONE NUMBER
N/A		

4.8 TRAPPER INFORMATION


REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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4.8 TRAPPER INFORMATION (CONTINUED)

REGISTERED AREA	NAME	ADDRESS	TELEPHONE NUMBER
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Redacted – NEB Order AO-001-MO-006-2016, s. 1.a.i. – Personal Information

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

Land Use Disposition Types

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


REGISTERED NUMBER	NAME	ADDRESS	TELEPHONE NUMBER
N/A			

4.10 FOREST MANAGEMENT AREA(S)

REGISTERED NUMBER	NAME	ADDRESS	TELEPHONE NUMBER
N/A			

4.11 FIRST NATIONS

NAME	CONTACT	TELEPHONE NUMBER	COMMENTS
N/A			

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5 GATHERING SYSTEMS INFORMATION

5.1 FACILITY INFORMATION

5.1.1 FACILITY SUMMARY


Facility Name	Ring Border [REDACTED]
Facility Type	Gas plant
Facility Code	N/A
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	Ring Border [REDACTED]
Facility Type	Gas Plant
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	North Dahl [REDACTED]
Facility Type	Compressor Station
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	Ring Dahl [REDACTED]
Facility Type	Compressor Station
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Redacted –NEB Order AO-001-MO-006-2016, s. 1.a.ii.
Facility / Pipeline technical information, disclosure of which would risk security

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5.1.1 FACILITY SUMMARY (CONTINUED)


Facility Name	Gutah [REDACTED]
Facility Type	Compressor Station
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	Dahl Comp [REDACTED]
Facility Type	Compressor
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	Lapp Comp [REDACTED]
Facility Type	Compressor
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Facility Name	Kahntah [REDACTED]
Facility Type	Gas processing plant
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

Redacted –NEB Order AO-001-MO-006-2016, s. 1.a.ii.
Facility / Pipeline technical information, disclosure of which would risk security

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5.1.1 FACILITY SUMMARY (CONTINUED)

Facility Name	Zaremba [REDACTED]
Facility Type	Battery
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED]

5.1.2 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 (CONSISTS OF)	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) - Roadblock Role Checklist & information - Roadblock Control Log form	 1 1 1 3	Roadblock Kit is located at: Ring Border [REDACTED] Additional Roadblock Kits are available at: Milligan [REDACTED] Wildmint [REDACTED] Velma [REDACTED]

5.1.3 EMERGENCY CONTROL SYSTEMS

TYPE	LOCATION	NOTES
Check Valve	[REDACTED]	Gas plant
Emergency Shut Down (ESD)	[REDACTED]	Gas plant
Block Valve	[REDACTED]	Gas plant

Redacted –NEB Order AO-001-MO-006-2016, s. 1.a.ii.
Facility / Pipeline technical information, disclosure of which would risk security

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5.2 FACILITY, PIPELINE AND WELL INFORMATION

5.2.1 FACILITY RELEASE RATES AND EMERGENCY PLANNING ZONES

LOCATION	FACILITY TYPE	FACILITY CODE	SUB	STATUS	EPZ (m)
[REDACTED]	Gas plant	[REDACTED]	NG	Operating	1600
[REDACTED]	Gas plant	[REDACTED]	NG	Suspended	980
[REDACTED]	Compressor station	[REDACTED]	NG	Operating	100
[REDACTED]	Compressor station	[REDACTED]	NG	Operating	100
[REDACTED]	Compressor	[REDACTED]	NG	Operating	100
[REDACTED]	Compressor	[REDACTED]	NG	Operating	100
[REDACTED]	Compressor	[REDACTED]	NG	Operating	100
[REDACTED]	Gas processing plant	[REDACTED]	NG	Shut-in	100
[REDACTED]	Battery	[REDACTED]	NG	Suspended	100


Redacted –NEB Order AO-001-MO-006-2016, s. 1.a.ii.
Facility / Pipeline technical information, disclosure of which would risk security

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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
H₂S	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>	H₂S CONVERSION: 1% = 10 mol / kmol = 10,000 ppm				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: No sweet natural gas, fuel gas, water or abandoned pipelines have been included in the following list(s) with the exception of any Canadian Natural National Energy Board (NEB) regulated lines in operation.

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5.2.3 PIPELINE RELEASE VOLUMES AND EMERGENCY PLANNING ZONES


Provincial LICENSE OR NEB Order Number	Line	Licensee	Sub	Stat	From Location	From (Fac)	To Location	To (Fac)	OD (mm)	WT (mm)	MOP (kPa)	H ₂ S (mol / kmol)	Length (km)	H ₂ S Rel Vol (m ³)	Set EPZ (m)
BC280396/ AB280037 *NEB MO-106-2014	1	CNRL	NG	D	[REDACTED]	BE	[REDACTED]	BE	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	N/A
BC280407/ AB280059 *NEB AO-001-XG-14-90	1	CNRL	ML	O	[REDACTED]	WE	[REDACTED]	WE	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	980
BC280398/ AB280043 *NEB AO-001-XG-14-90	1	CNRL	NG	O	[REDACTED]	GP	[REDACTED]	S	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	980
AB280042 / BC280397 *NEB AO-001-XG-14-90	1	CNRL	OL	O	[REDACTED]	S	[REDACTED]	GP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	980

**** NEB REGULATED PIPELINE.** For any emergency involving NEB regulated pipelines, contact NEB first then the applicable provincial authorities (courtesy call only). Refer to reporting requirements and contact information in Section 3.6 “Federal Government Contacts.”

5.2.4 WELL RELEASE RATES AND EMERGENCY PLANNING ZONES

NOTE: No well information required

Redacted –NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security


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6 MAPS, PUBLIC INFORMATION PACKAGE AND PLOT PLAN

The NEB does not require the inclusion of the Public Information Package in 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:

- Residents / Businesses
- Public Facilities
- Registered Trappers
- Grazing Lease Holders
- Grazing Reserves
- Forestry Management Areas

Redacted –NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security

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

7.1 PURPOSE

This Environmental Emergency (E2) Emergency Response Plan in conjunction with Canadian Natural’s Corporate and Area Specific Emergency Response Plans establishes an appropriate level of preparedness and response capability for CEPA regulated substances.


7.1.1 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
- Stationary container incidents involving Canadian Natural’s customers as described in the Table below. This Emergency Response Plan may also provide supplemental capability to response plans required and prepared by customers under the Canadian Environmental Protection Act

Activities covered by this plan:

Product	Propane
Container types	<ul style="list-style-type: none"> • Stationary containers (fixed systems); may be tanks or cylinders • Tank trucks • Tank cars (rail)
Transportation modes	<ul style="list-style-type: none"> • Road • Rail • Barge
Activity inclusions	<ul style="list-style-type: none"> • Response to emergencies involving stationary containers, trucks, intermodal containers, tanks transported on barges in Canadian territorial waters
Levels of response	<ul style="list-style-type: none"> • Provision of initial information by Canadian Natural personnel or Emergency Response Assistance Canada (ERAC) if activated • Attendance by Canadian Natural responders and / or ERAC response teams • Activation of the ERAC including attendance by a Remedial Measures Advisor (RMA) and / or response team under the terms and conditions of the contractual agreement with the ERAC

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8 ENVIRONMENTAL EMERGENCY (E2) EMERGENCIES

8.1 BUTANE

Redacted –NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information,
disclosure of which would risk security

8.1.1 EMERGENCY RESPONSE PROCEDURES

BUTANE						
Location	Latitude	Longitude	UN#	CAS Registry #	Maximum expected quantity at any time during the calendar year	Capacity of the single largest container where the substance is stored
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

FIRE OR EXPLOSION

➤ EXTREMELY FLAMMABLE

- Will be easily ignited by heat, sparks or flames
- Will form flammable mixture with air, if confined or if a flammable mixture is obstructed then ignition may result in a vapour cloud explosion
- 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

HEALTH


- 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

PUBLIC SAFETY

- **CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper is not available or there is no answer, refer to the appropriate telephone number listed on the inside back cover.**
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions
- Keep unauthorized personnel away
- Stay upwind
- Many gases are heavier than air and will spread along the ground and collect in low or confined areas (sewers, basements, tanks)
- Keep out of low areas

PROTECTIVE CLOTHING

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

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8.1.1 EMERGENCY RESPONSE PROCEDURES (CONTINUED)

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 1.6 kilometers (1 mile) in all directions; also consider initial evacuation for 1.6 kilometers (1 mile) in all directions

GENERAL 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
- Move containers from fire area if you can do it without risk

FIRE INVOLVING TANKS


- 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
- Do not direct water at the source of leak or safety devices as 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 flames
- 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 in the 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
- Use water spray to reduce vapours or divert cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak
- 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

- Move victim to fresh air
- CALL 9-1-1 or emergency medical service
- 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

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8.1.1 EMERGENCY RESPONSE PROCEDURES (CONTINUED)


FIRST AID (CONTINUED)

- 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 warm and quiet
- Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves

FOLLOWING AN ENVIRONMENTAL EMERGENCY INVOLVING THIS PRODUCT

As soon as possible, Canadian Natural will develop, in co-operation with local governments and other impacted stakeholders as required, a plan for the recovery of the site to a condition that is reasonably safe and acceptable. Canadian Natural will be responsible for this project and will include in the planning:

- Damage assessment and communication with stakeholders
- Project planning to bring resources to bear at the right times
- Working with outside resources to support recovery
- Organizing company resources to help those recovering

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8 ENVIRONMENTAL EMERGENCY (E2) EMERGENCIES

8.2 PENTANE / N-PENTANE / ISO-PENTANE

**Redacted –NEB Order AO-001-MO-006-2016,
s. 1.a.ii. - Facility / Pipeline technical information,
disclosure of which would risk security**

8.1.2 EMERGENCY RESPONSE PROCEDURES

PENTANES / n-PENTANE / iso-PENTANE						
Location	Latitude	Longitude	UN#	CAS Registry #	Maximum expected quantity at any time during the calendar year	Capacity of the single largest container where the substance is stored
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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
- Those substances designated with a “P” may polymerize explosively when heated or involved in a fire
- Runoff to sewer may create fire or explosion hazard
- Containers may explode when heated
- Many liquids are lighter than water
- Substance may be transported hot

HEALTH


- 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 may cause pollution

PUBLIC SAFETY

- **CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper is not available or there is no answer, refer to the appropriate telephone number listed on the inside back cover.**
- 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

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA)
- Structural firefighters’ protective clothing will only provide limited protection

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8.2.1 EMERGENCY RESPONSE PROCEDURES (CONTINUED)

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 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions

GENERAL FIRE RESPONSE

- **CAUTION: All of 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
- Use water spray or fog. Do not use straight streams.
- Move containers from fire area if you can do it without risk

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
- Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank
- ALWAYS stay away from tanks engulfed in flames
- 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 in the 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
- Dike far ahead of liquid spill for later disposal
- Water spray may reduce vapour but may not prevent ignition in closed spaces

FIRST AID

- Move victim to fresh air
- CALL 9-1-1 or emergency medical service
- 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
- Keep victim warm and quiet

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8.2.1 EMERGENCY RESPONSE PROCEDURES (CONTINUED)

FIRST AID (CONTINUED)

- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves

FOLLOWING AN ENVIRONMENTAL EMERGENCY INVOLVING THIS PRODUCT

As soon as possible, Canadian Natural will develop, in co-operation with local governments and other impacted stakeholders as required, a plan for the recovery of the site to a condition that is reasonably safe and acceptable. Canadian Natural will be responsible for this project and will include in the planning:

- Damage assessment and communication with stakeholders
- Project planning to bring resources to bear at the right times
- Working with outside resources to support recovery
- Organizing company resources to help those recovering