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	<b>EMERGENCY RESPONSE PLAN CLEARHILLS / FLORAL</b>	<b>REV. 11-0 MARCH 29, 2018</b>
	EMERGENCY RESPONSE ASSISTANCE CANADA (ERAC) EMERGENCY NO. 1-800-265-0212 ERAP # [REDACTED]	DDS # [REDACTED]

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


AREA NAME	LOCATION	DESCRIPTION
Clearhills	[REDACTED]	Sour Production
Floral	[REDACTED]	Sour Production
Clearhills	[REDACTED]	Propane Tank (E2) [REDACTED]
Clearhills	[REDACTED]	NEB Regulated Pipeline NEB Order # AO-01-XG-B88-4-99
Clearhills	[REDACTED]	NEB Regulated Pipeline NEB Order # AO-02-XG-B88-42-96
Clearhills	[REDACTED]	NEB Regulated Pipeline NEB Order # AO-02-XG-B88-2-93
Floral	[REDACTED]	NEB Regulated Pipeline NEB Order # AO-02-XG-R66-04-96

**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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**REV. 11-0  
MARCH 29, 2018**

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

**DDS # [REDACTED]**

<b>AREA NAME AND LOCATION:</b> Clearhills / Floral	<b>COMPLETED BY:</b> Jason Bowie	<b>DATE:</b> March 29, 2018
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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
<p><b>Redacted – NEB Order AO-001-MO-006-2016, s. 1.a.ii. - Facility / Pipeline technical information, disclosure of which would risk security</b></p>						



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EMERGENCY NO. 1-800-265-0212  
ERAP # [REDACTED]**

**DDS # [REDACTED]**

**AREA NAME AND LOCATION:** Clearhills / Floral **COMPLETED BY:** Jason Bowie **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

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DDS # [REDACTED]

AREA NAME AND LOCATION: Clearhills / Floral | COMPLETED BY: Jason Bowie | 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 NO. 1-800-265-0212  
ERAP # [REDACTED]**

**DDS # [REDACTED]**

<b>AREA NAME AND LOCATION:</b> Clearhills / Floral	<b>COMPLETED BY:</b> Jason Bowie	<b>DATE:</b> March 29, 2018
---	-------------------------------------	--------------------------------

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

**Redacted – NEB Order AO-001-MO-006-2016,**  
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ERAP # [REDACTED]**

**DDS # [REDACTED]**

<b>AREA NAME AND LOCATION:</b> Clearhills / Floral	<b>COMPLETED BY:</b> Jason Bowie	<b>DATE:</b> March 29, 2018
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<b>IDENTIFY HAZARD</b>	<b>HAZARD AFFECTS</b>					<b>WHAT MITIGATION MEASURES ARE AVAILABLE / NEEDED</b>
	<b>PUBLIC</b> <i>(i.e.: residents, First Nations, trappers, transients, industry)</i>	<b>ENVIRONMENT</b>		<b>COMPANY ASSETS</b>	<b>RISK RANKING</b>	
	<b>LAND USE</b> <i>(i.e.: vegetation, forest, etc.)</i>	<b>WILDLIFE / LIVESTOCK</b>				
<b>HAZARD</b>	<b>Yes</b> <i>If applicable</i>	<b>Yes</b> <i>If applicable</i>	<b>Yes</b> <i>If applicable</i>	<b>Yes</b> <i>If applicable</i>	<b>Indicate Low / Med / Critical</b>	<b>ENGINEERING CONTROLS / EQUIPMENT / RESOURCES</b>

**Redacted – NEB Order AO-001-MO-006-2016,  
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## 1 SITE-SPECIFIC DISTRIBUTION LIST AND AMENDMENT RECORD

### 1.1 INTERNAL COPIES

COPY	RECIPIENT	POSITION	LOCATION	CONFIDENTIAL INFORMATION INCLUDED (✓)
1	[REDACTED]	Area Foreman Clearhills / Floral AB	Fairview District Office	✓
2	[REDACTED]	Area Foreman Clearhills / Floral AB	Truck Copy	✓
3	[REDACTED]	Assistant Foreman Clearhills / Floral AB	Fairview District Office	✓
4	[REDACTED]	Assistant Foreman Clearhills / Floral AB	Truck Copy	✓
5	[REDACTED]	Area Foreman Osborne BC	Fort St. John Office	✓
6	[REDACTED]	Assistant Foreman Osborne BC	Fort St. John Office	✓
7	[REDACTED]	Area Landman	Grande Prairie Office	✓
8	[REDACTED]	Operations Superintendent	Fairview District Office	✓
9	[REDACTED]	Operations Superintendent	Fort St. John Office	✓
10	[REDACTED]	Northern Field Operations Manager	Calgary Office	
11	[REDACTED]	Safety & Compliance Coordinator	Fairview Office	
12	[REDACTED]	Safety & Compliance Coordinator	Fort St. John Office	
13	Clearhills Comp Stat	Compressor Station	[REDACTED]	
14	Clearhills Plant	Gas Plant - Office	[REDACTED]	
15	Clearhills Plant	Gas Plant - Camp	[REDACTED]	
16	Floral Plant	Facility	[REDACTED]	
17	Sweeney Battery	Facility	[REDACTED]	
18	Boundary Oil Battery	Facility	[REDACTED]	
19	Emergency Response Mobile Cart	Emergency Response Mobile Cart	Calgary Office	
20	Calgary Office Command Centre	Calgary Office Command Centre	Calgary Office BHE 26002	

**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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### 1.1 INTERNAL COPIES (CONTINUED)

COPY	RECIPIENT	POSITION	LOCATION	CONFIDENTIAL INFORMATION INCLUDED (✓)
*	Roadblock Kit	Boundary Oil Battery	[REDACTED]	
*	Roadblock Kit	Floral Gas Plant	[REDACTED]	
*	Roadblock Kit	Clearhills Gas Plant	[REDACTED]	
*	Roadblock Kit	Worsley West Oil Battery	[REDACTED]	
*	Roadblock Kit	Worsley Oil Battery	[REDACTED]	
*	Roadblock Kit	Sweeney Oil Battery	[REDACTED]	
*	Roadblock Kit	North Cecil Gas Plant	[REDACTED]	
*	Roadblock Kit	Lagarde Battery	[REDACTED]	
* Roadblock Role Checklist and Information, Roadblock Control Log and Map only				

**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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## 1.2 EXTERNAL COPIES

COPY	RECIPIENT	ORGANIZATION	LOCATION
DDS	Alberta Energy Regulator	Alberta Energy Regulator	1000, 250 – 5 Street SW Calgary AB T2P 0R4 [REDACTED]
SFTP	British Columbia Oil and Gas Commission	British Columbia Oil and Gas Commission	6534 Airport Road Fort St. John BC V1J 4M6 [REDACTED]
21	Emergency Response and Safety Inspector	British Columbia Oil and Gas Commission	6534 Airport Road Fort St. John BC V1J 4M6
22	NEB – Hard Copy	National Energy Board	517 – 10 Avenue SW Calgary AB T2R 0A8
CD	NEB	National Energy Board	517 – 10 Avenue SW Calgary AB T2R 0A8
Email	[REDACTED] Chief Administrative Officer / Director of Emergency Management	Clear Hills County	Box 240 Worsley AB T0H 3W0 [REDACTED]
Email	[REDACTED] Director Environmental Public Health	Alberta Health Services - North Zone	11202- 100 Avenue High Level AB T0H 1Z0 [REDACTED]
Email	[REDACTED] Protective Services Manager	Peace River Regional District (PRRD)	Box 810 1981 Alaska Avenue Dawson Creek BC V1G 4H8 [REDACTED]
Email (PIP only)	[REDACTED] HEMBC Director	Northern Health / Health Emergency Management BC (HEMBC)	600 – 299 Victoria Street Prince George, BC V2L 5B8 [REDACTED]

DDS	Uploaded ERP, map(s), resident and technical data to the Alberta Energy Regulator website
SFTP	Submitted electronic copy of ERP via BC OGC's Secure File Transfer Protocol site
CD	Received a copy of the complete Emergency Response Plan on CD
Email	Received an electronic copy of the complete Emergency Response Plan

### 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]


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

Email: [REDACTED]

Phone: [REDACTED]


Fax: [REDACTED]

DATE	DETAILS	CHANGED BY
July 2014	Rev 7-0 - Annual Update <ul style="list-style-type: none"> <li>▪ Reviewed gathering system:               <ul style="list-style-type: none"> <li>- Floral: well, pipeline and facility list and EPZ updated</li> <li>- Clearhills: kept NEB lines, removed all the EPZs in Clearhills due to no surface development within</li> </ul> </li> <li>▪ All emergency contact information was verified and updated</li> <li>▪ Residents contacted and information updated</li> <li>▪ Map updated</li> </ul>	
April 2015	Rev 8-0 – Annual Update <ul style="list-style-type: none"> <li>▪ Gathering system review, and EPZs updated</li> <li>▪ All emergency contact information was verified and updated</li> <li>▪ Residents contacted and information updated</li> <li>▪ Map updated</li> </ul>	
March 2016	Rev 9-0 – Annual Update <ul style="list-style-type: none"> <li>▪ Gathering system review, and EPZs updated</li> <li>▪ Reviewed gathering system</li> <li>▪ All emergency contact information was verified and updated</li> <li>▪ Residents contacted and information updated</li> <li>▪ Map updated</li> </ul>	
March 30, 2017	Rev 10-0 – Annual Update <ul style="list-style-type: none"> <li>▪ Gathering system review</li> <li>▪ ERCBH2S conversion</li> <li>▪ All emergency contact information was verified and updated</li> <li>▪ Residents contacted and information updated</li> <li>▪ Map updated</li> </ul>	

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DATE	DETAILS	CHANGED BY
March 29, 2018	Rev 11-0 – Annual Update <ul style="list-style-type: none"> <li>• Gathering system reviewed</li> <li>• All emergency contact information verified and updated where necessary</li> <li>• Residents, organizations contacted and information updated</li> <li>• Map updated</li> </ul>	[REDACTED]

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

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## 2 GENERAL INFORMATION

### 2.1 INTRODUCTION AND SUMMARY

#### 2.1.1 FACILITY - GENERAL INFORMATION


FACILITY LOCATIONS	Clearhills Gas Plant [REDACTED]	
	Clearhills Compressor Station [REDACTED]	
	Floral Gas Plant [REDACTED]	
	Floral Compressor Station [REDACTED]	
PHONE NUMBERS	250-261-3234	Clearhills Plant [REDACTED]
	780-595-2425	Floral Plant [REDACTED]
	[REDACTED]	24-Hour 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**

DISTRICT OFFICE LOCATION	Fairview District Office	
PHONE NUMBERS	780-835-5050	Business
	780-835-3433	Fax

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

FAIRVIEW DISTRICT OFFICE	BOX 1179 Fairview AB T0H 1L0	
PHONE NUMBERS	780-835-5050	Business
	780-835-3433	Fax

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### 2.1.3 GENERAL LAND USE AND POPULATION DENSITY

Local Municipality	Municipal District of Clear Hills Peace River Regional District	
Area Land Use	Hunting, trapping, ranching and oil and gas operations	
Population Density (Within EPZ)		
NUMBER	TYPE	DESCRIPTION
6	Residences	
9	Businesses / Organizations	
0	Public Facilities / Recreational Areas	
6	Traplines	[REDACTED]
1	Grazing Leases / Reserves	[REDACTED]
1	Forest Management Areas	[REDACTED]
0	First Nations	
2	Lakes / Rivers	Little Clear River, Osborn River and several unnamed tributaries
0	Public Highways	
0	Other (Railway, logging, etc.)	

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

### 2.1.4 SAFE LOCATIONS


NAME	LOCATION
On-Site Safe Location (Muster Area):	Upwind side of incident
Off-Site Safe Location (Staging Area):	Depending on Emergency Location

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### 2.1.5 EMERGENCY EQUIPMENT

TYPE	QUANTITY	LOCATION / NOTES
Personal Gas Monitor	1	Floral [REDACTED] gas plant office
Portable Gas Detector	6	Each operator has one plus 2 spares
Self-Contained Breathing Apparatus (SCBA)	12	7 – Floral [REDACTED] plant 1 – Clearhills [REDACTED] compressor 1 – Each operator's truck (4)
Supplied Air Breathing Apparatus (SABA)	1	Clearhills plant shop
Wheeled fire Extinguisher (150 lb.)	2	Clearhills plant
Handheld Fire Extinguisher (30 lb.)	44	36 - Located throughout Clearhills plant 4 – Clearhills [REDACTED] compressor station 1 – Each operator's truck (4)
First Aid Kit		Trucks, throughout Clearhills facilities, Osborn office
First Aid Station	4	3 – Clearhills plant 1 – Clearhills compressor station
First Aid Room	0	
Eye Wash Station – 15 min flow	21	19 – Clearhills plant 2 – Clearhills compressor station
Eye Wash Station – 1 litre bottle		Osborn office
Spill Kit	1	Clearhills gas plant shop
AED	1	Clearhills gas plant office
Burn Kit	0	
Ignition Equipment		

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s. 1.a.ii. - Facility / Pipeline technical information, disclosure  
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## 2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS

### EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL MUNICIPALITIES

#### CLEARHILLS COUNTY (AB)

Contacted [REDACTED], Chief Administrative Officer / Director of Emergency Management on November 20, 2017

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

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


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

The Alberta Energy Regulator – Peace Wildfire Management Area is responsible for wildland fire protection in these areas. The County has no Special Constables. All policing duties are covered by the RCMP – Fairview Detachment. The Public Works Department employs about six personnel, which expands to 20 employees during the summer.

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

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## 2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)

### EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL MUNICIPALITIES

#### PEACE RIVER REGIONAL DISTRICT (PRRD) (BC)

Contacted [REDACTED], Protective Services Manager on November 20, 2017

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

The 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 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 public information service; joint OGC, industry, local government
- Provide building reentry procedures

The Peace River Regional District provides enhanced 9-1-1 services to all municipalities and electoral areas of the Regional District. Personnel at the 9-1-1 Public Safety Answering Point (PSAP), located within the RCMP North District Operations Communications Centre (OCC) in Prince George, determine the nature of the emergency and transfer the caller to the appropriate response agency; police, fire or ambulance.

The 9-1-1 Emergency Service also includes fire / rescue radio dispatch for 11 Fire Departments throughout the region. The fire dispatch centres are located in Dawson Creek and Fort St. John Fire Departments. The Charlie Lake Fire Department, operated by the Peace River Regional District, is staffed by a full time Fire Chief, a full time Deputy Fire Chief and 30+ enthusiastic volunteer fire fighters out of one hall. The department currently responds to between 80 and 100 calls for service each year and protects 125 square kilometers with a population of 3700. Full time staff are at the fire hall from 8:30 am to 4:30 pm Monday through Friday.


When requested, volunteer Search and Rescue teams are available to support Ground Search and Rescue activities throughout the Peace Region. All members receive search training with some trained in specialized disciplines including Rope Rescue, Tracking and Swift Water and Ice Rescue and HETS.

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## 2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)


EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL HEALTH SERVICES
<p><b>ALBERTA HEALTH SERVICES (AHS) – NORTH ZONE</b>  <b>Contacted [REDACTED], Director Environmental Public Health on November 20, 2017</b>            Alberta Health Services – North Zone will endeavor to:</p> <ul style="list-style-type: none"> <li>• Participate with the Licensee in the development of their Emergency Response Plans as it relates to the EPH Program's role and responsibility.</li> <li>• 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.</li> <li>• 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.</li> <li>• Participate in public information sessions during the Licensee's Emergency Response Plan development process when appropriate and resources permit.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Record and respond to health complaints or concerns from the public during and following an incident.</li> <li>• Participate in stakeholder debriefings as necessary.</li> </ul>

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## 2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)


<p><b>EXTERNAL EMERGENCY RESPONSE PLANS: LOCAL HEALTH SERVICES</b></p> <p><b>HEALTH EMERGENCY MANAGEMENT BC / NORTHERN HEALTH (HEMBC)</b></p> <p>Contacted [REDACTED], HEMBC Director on November 20, 2017</p> <ul style="list-style-type: none"> <li>Maintain 24-hour emergency / on-call contact number for notification and activation of the health system in Northern BC</li> <li>Notify / activate the appropriate Northern Health Programs (i.e.: Public Health, Acute Care, etc.) based on the nature of the incident / emergency event</li> </ul> <p><b>Roles and Responsibilities – Response</b></p> <ul style="list-style-type: none"> <li>Activate internal health emergency management plans related to ongoing provision of services as listed above</li> <li>Provide acute care and emergency services at existing Northern Health Hospitals / Health Centres</li> <li>Work with BC Emergency Health Services (Ambulance) and the BC Patient Transfer Network to transport patients to the appropriate levels of care</li> <li>Apply and enforce the Public Health Act and associated regulations</li> <li>Provide advice / information to the stakeholders on the existing or potential public health effects of an incident; including drinking water safety, air quality, environmental contaminants, communicable disease prevention, reoccupancy of evacuated areas, etc.</li> <li>Provide advice / information on the best methods for monitoring health effects from an incident</li> <li>Assist in development of joint messaging for public information on emergency incidents</li> <li>Provide guidance to stakeholders and local authorities on public health considerations in operating Reception and Evacuation Centres and group lodging facilities</li> </ul> <p><b>Roles and Responsibilities – Preparedness (pre-event)</b></p> <ul style="list-style-type: none"> <li>Participate with industry, local authority and other partners in the development of their Emergency Response Plans (ERP) as it relates to health authority roles and responsibilities</li> <li>Participate in stakeholder training and exercises associated with activation of an ERP in which Northern Health or HEMBC have a role and responsibility, as resources allow</li> </ul> <p><b>NOTE:</b> BC Emergency Health 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.</p>
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### 2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)

<p><b>MUTUAL AID</b></p> <p><b>LOCAL MUNICIPALITIES</b></p> <p>Any time an emergency occurs which involves the evacuation of more people than Canadian Natural personnel can handle, Clear Hills County and Peace River Regional District will be notified to assist. It is essential that Canadian Natural's Incident Commander maintain communication with each local authority's Coordinator to ensure that responses are coordinated.</p> <p>Dial 9-1-1 for Disaster Services or Emergency Medical Services in Clear Hills County.</p> <p><b>LOCAL RCMP DETACHMENTS</b></p> <p><i>No consultation with local detachments required as per RCMP K Division (AB) March 30, 2017 and as per BC Oil and Gas Regulations</i></p> <p>The local RCMP detachments of Fairview (AB) and Fort St. John (BC):</p> <ul style="list-style-type: none"> <li>• May assist with initial area isolation, evacuation and / or assistance with closure of roads</li> <li>• Provides security, traffic and crowd control</li> <li>• May assist in search and rescue activities</li> <li>• Maintains law and order</li> </ul>
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**2.1.6 MUTUAL AID / EXTERNAL EMERGENCY RESPONSE PLANS (CONTINUED)**

**OTHER INDUSTRIAL OPERATOR(S)**

**OTHER INDUSTRIAL OPERATORS**

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.

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.

Canadian Natural would provide First Responder actions for an emergency involving other operated assets, with immediate notification to the well or the pipeline licensee.

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.

**OTHER OPERATORS**

All other operators that tie into this system have their own ERPs and would be responsible for emergency response actions involving their facilities. They are:

**Cequence Energy Ltd. Emergency Number 1-866-764-4569**

[REDACTED]

**Enercapita Energy Ltd. Emergency Number 1-866-556-7834**


[REDACTED]

**ORLEN Upstream Canada Ltd. Emergency Number 1-866-835-6132**

[REDACTED]

**Whitecap Resources Inc. Emergency Number 1-866-590-5289**

[REDACTED]

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### 2.1.7 DRIVING DIRECTIONS AND MAP

#### DRIVING ROUTE

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

#### PROXIMITY TO NEAREST URBAN CENTRE

[REDACTED]

[REDACTED]


[REDACTED]

[REDACTED]

#### LATITUDE AND LONGITUDE COORDINATES

Clearhills [REDACTED] gas plant	LATITUDE	[REDACTED]	LONGITUDE	[REDACTED]
Osborne [REDACTED] compressor	LATITUDE	[REDACTED]	LONGITUDE	[REDACTED]



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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 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.

[REDACTED]

[REDACTED]

[REDACTED]


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

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## 2.2 EMERGENCY DETECTION, NOTIFICATION AND CONFIRMATION SYSTEMS

PRESENT AT FACILITY	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.
N	SCADA System (On sales line)	<b>Supervisory Control and Data Acquisition</b> – 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.
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 <sub>2</sub> S Monitors – Continuous	Continuous H <sub>2</sub> 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 <sub>2</sub> S levels are detected at the facility. If H <sub>2</sub> S levels reach a predetermined level, the system is designed to activate the Emergency Shutdown (ESD) and shut down the facility.
Y	H <sub>2</sub> S Monitors – Handheld	Canadian Natural personnel are equipped with personal H <sub>2</sub> S / LEL monitors for early detection.
Y	Gas Detection Equipment	Continuous <b>Combustible Gas Detectors</b> 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 higher ground.
Two-Way Radios	Two-way radio communications on Clearhills channel as noted below
Land Line	[REDACTED] [REDACTED]

### 2.3.2 RADIO FREQUENCIES

NAME	RECEIVE NUMBER	TRANSMIT NUMBER
[REDACTED]	[REDACTED]	[REDACTED]


#### Clearhills Radio Controlled Road

LAND LOCATION	ROAD NAME	FREQUENCY	CALL SIGNS AND COMMENTS
[REDACTED]	Clearhills gas plant main access (Call out is Main on the Radio)	[REDACTED]	[REDACTED]
[REDACTED]	Clearhills gas plant east access (Call out is East on the Radio)	[REDACTED]	[REDACTED]
[REDACTED]	Clearhills gas plant west access (Call out is West on the Radio)	[REDACTED]	[REDACTED]
[REDACTED]	CP Main access	[REDACTED]	[REDACTED]

#### Floral Radio Controlled Road

LAND LOCATION	ROAD NAME	FREQUENCY	CALL SIGNS AND COMMENTS
[REDACTED]	Penn West Road	[REDACTED]	[REDACTED]
[REDACTED]	Boundary Lake Road	[REDACTED]	[REDACTED]

**Redacted –NEB Order AO-001-MO-006-2016,**  
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### 3 CONTACTS AND TELEPHONE LISTS

#### 3.1 COMPANY EMERGENCY CONTACTS

POSITION	NAME	CELL	OFFICE
<b>ALBERTA</b>			
Area Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Assistant Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Operations Superintendent	[REDACTED]	[REDACTED]	[REDACTED]
Safety & Compliance Coordinator	[REDACTED]	[REDACTED]	[REDACTED]
Surface Landman	[REDACTED]	[REDACTED]	[REDACTED]
<b>BRITISH COLUMBIA</b>			
Area Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Assistant Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Operations Superintendent	[REDACTED]	[REDACTED]	[REDACTED]
Safety & Compliance Coordinator	[REDACTED]	[REDACTED]	[REDACTED]
Surface Landman	[REDACTED]	[REDACTED]	[REDACTED]
Health & Safety Manager	[REDACTED]	[REDACTED]	[REDACTED]
Emergency Management Lead	[REDACTED]	[REDACTED]	[REDACTED]
Manager Western Field Operations	[REDACTED]	[REDACTED]	[REDACTED]
VP West Field Operations	[REDACTED]	[REDACTED]	[REDACTED]
Calgary Command Centre	Bankers Hall East (BHE) Room 26002		[REDACTED]


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### 3.2 MANDATORY NOTIFICATIONS (SEE EMERGENCY NOTIFICATION DETAILS CHART)

NAME	LOCATION	TELEPHONE
<b>ALBERTA</b>		
Alberta Energy Regulator (Energy & Environmental Response Line)	Province-Wide	24- Hour 1-800-222-6514
	Grande Prairie Field Centre	24-Hour 780-538-5138
National Energy Board (NEB) <i>See Forms &amp; Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	<b>Online Event Reporting System (OERS)</b>	<b><a href="https://apps.neb-one.gc.ca/ers">https://apps.neb-one.gc.ca/ers</a></b>
	Incident Line (all other incidents)	24-Hour 403-807-9473
	Calgary Office	Main 403-292-4800
Transportation Safety Board (TSB) <i>See Forms &amp; 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
	<b>Email Address</b>	<b><a href="mailto:PipelineNotifications@tsb.gc.ca">PipelineNotifications@tsb.gc.ca</a></b>
Clear Hills County [REDACTED] Chief Administrative Officer / Director of Emergency Management	Worsley AB	24-Hour Emergency 780-835-0156
		Office 780-685-3925
Alberta Health Services	Province-Wide	24-Hour 1-844-755-1788
		Email <a href="mailto:edp@ahs.ca">edp@ahs.ca</a>
RCMP – Fairview Detachment	Fairview AB	24-Hour 9-1-1 780-835-2211


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### 3.2 MANDATORY NOTIFICATIONS (CONTINUED)


NAME	LOCATION	TELEPHONE
<b>BRITISH COLUMBIA</b>		
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-Hour Incident Reporting   1-800-663-3456
	Fort St. John BC	Office   250-794-5200
National Energy Board (NEB) <i>See Corporate ERP: Notification of an Emergency Situation (Federal), Page 5-40 for Incident Reporting Instructions</i>	<b>Online Event Reporting System (OERS)</b>	<a href="https://apps.neb-one.gc.ca/ers">https://apps.neb-one.gc.ca/ers</a>
	Incident Line (all other incidents)	24-Hour   403-807-9473
	Calgary Office	Main   403-292-4800
Transportation Safety Board (TSB) <i>See Corporate ERP: Notification of an Emergency Situation (Federal), Page 5-40 for Incident Reporting Instructions</i>	Reporting Hotline	24-Hour   1-819-997-7887
		Fax   1-819-953-7876
	<b>Email Address</b>	<b>PipelineNotifications@tsb.gc.ca</b>
Peace River Regional District	Dawson Creek BC	24-Hour Incident Reporting   1-800-670-7773
		Office   250-784-3200
Health Emergency Management BC (HEMBC)	Northern BC	24-Hour Emergency On-Call   [REDACTED]
	Northern BC	Non-emergency inquiries only (HEMBC Director)   [REDACTED]
RCMP - Fort St. John Detachment	Fort St. John BC	24-Hour   9-1-1 250-787-8140

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

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### 3.3 PROVINCIAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE
<b>ALBERTA</b>		
Alberta Energy Regulator (Energy & Environmental Response Line)	Province-Wide	24- Hour 1-800-222-6514
	Grande Prairie Field Centre	24-Hour 780-538-5138
Alberta Emergency Management Agency	Province-Wide	24-Hour 1-866-618-2362
Alberta Environment and Parks (AEP) – Fish & Wildlife	Province-Wide	24-Hour 1-877-944-0313
	Fairview Office	Office 780-835-2737
	Report a Poacher	24-Hour 1-800-642-3800
Alberta Environment and Parks (AEP) – Wildfire Reporting	Province-Wide	24-Hour 310-FIRE (3473) 1-866-394-3473
Alberta Agriculture and Forestry (AAF) – Forest Protection	Grande Prairie AB	Office 780-538-5560
Alberta Environment and Parks (AEP) - Lands & Forests	Fairview AB	Office 780-835-7200
Alberta Transportation	Edmonton AB	24-Hour 1-800-272-9600
Alberta Health Services	Province-Wide	24-Hour 1-844-755-1788
		Email edp@ahs.ca
Occupational Health & Safety	Province-Wide	24-Hour 1-866-415-8690
Workers' Compensation Board	Province-Wide	24-Hour 1-866-922-9221
<b>BRITISH COLUMBIA</b>		
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-Hour Incident Reporting 1-800-663-3456
	Fort St. John BC	Office 250-794-5200
Peace River Regional District	Dawson Creek BC	24-Hour Incident Reporting 1-800-663-3456
		Office 250-784-3200
Health Emergency Management BC (HEMBC)	Northern BC	24-Hour Emergency On-Call [REDACTED]
	Northern BC	Non-emergency inquiries only (HEMBC Director) [REDACTED]

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### 3.4 EMERGENCY SERVICE NUMBERS

SERVICE	LOCATION	TELEPHONE
<b>ALBERTA</b>		
RCMP – Fairview Detachment	Fairview AB	24-Hour 9-1-1 780-835-2211
Hospitals	Queen Elizabeth II Hospital Grande Prairie AB	24-Hour 780-538-7100
	Fairview Health Complex Fairview AB	24-Hour 780-835-6100
	Central Peace Health Complex Spirit River AB	24-Hour 780-864-3993
STARS Air Ambulance	Province-Wide	24-Hour From cell 1-888-888-4567 *4567
Ambulance	Grande Prairie AB	24-Hour Office 9-1-1 780-538-1253
	Spirit River AB	24-Hour 9-1-1
	Beaverlodge AB	24-Hour 9-1-1
Fire Department	Grande Prairie AB	24-Hour Office 9-1-1 780-538-0393
	Spirit River AB	24-Hour 9-1-1
	Beaverlodge AB	24-Hour 9-1-1
<b>BRITISH COLUMBIA</b>		
RCMP – Fort St. John Detachment	Fort St. John BC	24-Hour 9-1-1 250-787-8100
Hospital	Fort St. John Hospital Fort St. John BC	24-Hour 250-262-5200
British Columbia Ambulance Service	Province-Wide	Emergency 9-1-1
		Toll free 1-800-461-9911
		Cell / Sat Phone / Outside of BC 250-374-5937
Fire Department	Fort St. John BC	24-Hour 9-1-1
		Office 250-785-4333

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### 3.5 TDG / LPG 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


**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

### 3.6 MUNICIPAL GOVERNMENT CONTACTS (FOR NOTIFICATION PURPOSES ONLY)

NAME	LOCATION	TELEPHONE NUMBER	
Clear Hills County [REDACTED] Chief Administrative Officer / Director of Emergency Management	Worsley AB	24-Hour Emergency	780-835-156
		Office	780-685-3925
Peace River Regional District [REDACTED] Protective Services Manager	Dawson Creek BC	24-Hour Emergency	1-800-663-3456
		Office	250-784-3200

### 3.7 FEDERAL GOVERNMENT CONTACTS


NAME	LOCATION	CONTACT INFORMATION	
National Energy Board (NEB) <i>See Forms &amp; Guidelines section in Corporate ERP: Guideline 8: NEB / TSB Incident Reporting Instructions</i>	Online Event Reporting System (OERS)	<a href="https://apps.neb-one.gc.ca/ers">https://apps.neb-one.gc.ca/ers</a>	
	Incident Line (all other incidents)	24-Hour	403-807-9473
	Calgary Office	Main	403-292-4800
Transportation Safety Board (TSB) <i>See Forms &amp; 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 (IOGC)	Tsuu T'ina AB	Office Fax	403-292-5625 403-292-5618
First Nations, Health Authority	Prince George BC	Office Fax	250-561-5370 250-561-5369
Environment Canada (Will be notified through the respective provincial or territorial government)	Alberta Environment and Parks	24-Hour	1-800-222-6514

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### 3.8 CONTRACT SERVICES


COMPANY	LOCATION	TELEPHONE NUMBER	
<b>ALBERTA</b>			
<b>AIR QUALITY MONITORING</b>			
Alberta Energy Regulator (Not 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	1-877-785-9558
<b>AIRCRAFT / HELICOPTERS</b>			
Airco Aircraft Charters	Edmonton AB	24-Hour	780-890-7780
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
<b>SAFETY SERVICES / COMMUNICATION EQUIPMENT</b>			
HSE Integrated Ltd.	Province-Wide	24-Hour	1-888-346-8260
United Safety Ltd.	Province-Wide	24 Hour	1-800-432-1809
Trojan Safety Services	Province-Wide	24-Hour	1-877-785-9558
<b>WELL BLOWOUT CONTROL</b>			
Firemaster Oilfield Services Inc.	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
<b>WESTERN CANADIAN SPILL SERVICES (WCSS) AREA "T" 24-HOUR EMERGENCY CONTACT 1-866-541-8888</b>			
Coop Chairman Arlen Hogg, Canadian Natural	Grande Prairie AB	Cell	587-298-7353
		Office	780-832-4190
Regional Custodian Clean Harbors	Grande Prairie AB	Office	780-532-1331



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### 3.8 CONTRACT SERVICES (CONTINUED)

COMPANY	LOCATION	TELEPHONE NUMBER	
<b>BRITISH COLUMBIA</b>			
<b>AIR QUALITY MONITORING</b>			
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	1-877-785-9558
<b>AIRCRAFT / HELICOPTERS</b>			
Canadian Helicopters Ltd.	Fort St John BC	24-Hour	250-787-0431
North Cariboo Air	Fort St John BC	24-Hour	1-888-735-9464 250-787-0311
Yellowhead Helicopters Ltd.	Fort St John BC	24-Hour	250-785-2331
<b>SAFETY SERVICES / COMMUNICATION EQUIPMENT</b>			
HSE Integrated Ltd.	Province-Wide	24-Hour	1-888-346-8260
United Safety Ltd.	Province-Wide	24 Hour	1-800-432-1809
Trojan Safety Services	Province-Wide	24-Hour	1-877-785-9558
<b>WELL BLOWOUT CONTROL</b>			
Firemaster Oilfield Services Inc.	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
<b>WESTERN CANADIAN SPILL SERVICES (WCSS) AREA "C" 24-HOUR EMERGENCY CONTACT 1-866-541-8888</b>			
Coop Chairman Carl Reimer, Enbridge	Fort St. John BC	Cell	250-262-8752
		Office	250-262-3456
Regional Custodian Shawn Dorie, Clean Harbors	Fort St. John BC	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	1-877-304-8725 (Toll Free)
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### 4.2 NOTIFICATION PROCEDURES

If an emergency occurs that involves only a few residents, the Public Safety Chief will designate Telephone Callers to relay messages of notification, shelter-in-place or evacuation. Refer to the Public Safety Chief section for procedures and scripts. If an emergency occurs that involves too many residents for Canadian Natural personnel to notify in a timely manner, the CommAlert system will be activated. The following procedure will be used:


1. Prepare the following information, prior to calling CommAlert (the number is shown in Step 2):
  - 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. Call CommAlert at 1-877-304-8725 and identify that there is an emergency situation and that a call-out is required. CommAlert will follow their Standard Operating Procedures (as found in the Corporate ERP Manual Emergency Response Toolbox) and ask for the information outlined therein.
3. After the call-out, CommAlert will send a report of the results within 15 minutes, by either e-mail (preferred) or fax. They will ask for a preference and for a fax number or e-mail address. The report will include which residents responded that they would evacuate immediately or stay in their homes (shelter), which residents require assistance and which residents did not respond to the message.
4. Canadian Natural will then dispatch Rovers to assist those residents who require assistance. Residences that did not respond to the message will need to be contacted by a Telephone Caller or a Rover.
5. Once the emergency has been resolved, CommAlert, if requested, can relay an All Clear message.

Here are the three (3) message choices that can be sent automatically by the CommAlert system:

#### 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 residents out of the Emergency Planning Zone.

RECEPTION CENTRE	LOCATION	TELEPHONE NUMBER
Northern Grand Hotel	9830 – 100 Avenue Fort St. John BC V1J 1Y5	250-787-0521
Dunvegan Inn & Suites	9812 – 113 Street Fairview AB T0H 1L0	780-835-5100
Worsley Gateway Inn	355 Secondary Highway 726 Worsley AB T0H 3W0	780-685-2080

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#### 4.4 RESIDENT INFORMATION

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

[REDACTED]

#### 4.5 BUSINESS / PUBLIC FACILITY INFORMATION

[REDACTED]

#### 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 DIVISION	SCHOOL NAME	TELEPHONE NUMBER
There are no school divisions / schools in the area.		

#### 4.7 INDUSTRIAL OPERATORS


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
Alliance Pipeline	Pipelines in the area	24-Hour Emergency   1-800- 884-8811
Altagas	Wells in the area	24-Hour Emergency   1-866-826-3830
Cequence Energy Ltd	Wells and pipelines in the area	24-Hour Emergency   1-866-764-4569
Direct Energy Marketing Limited	Pipelines in the area	Office   403-266-6393
Enbridge Inc.	Wells and pipelines in the area	24-Hour Emergency   1-800-663-9931
Enercapita Energy Ltd.	Pipelines in the area	24-Hour Emergency   1-866-556-7834
Imperial Oil Resources Limited	Wells and pipelines in the area	Office   403-237-3737
Kelt Exploration Ltd.	Pipelines in the area	Office   403-294-0154

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#### 4.7 INDUSTRIAL OPERATORS (CONTINUED)

<b>INDUSTRIAL OPERATOR NAME</b>	<b>OPERATIONS DESCRIPTION</b>	<b>TELEPHONE NUMBER</b>	
ORLEN Upstream Canada Ltd.	Wells and pipelines in the area	24-Hour Emergency	1-866-835-6132
Pembina Pipeline Corporation	Pipelines in the area	24-Hour Emergency	1-800-360-4706
Ribbon Creek Resources Inc.	Wells and pipelines in the area	24-Hour Emergency	1-877-215-8420
Ridgeback Resources Inc.	Wells and pipelines in the area	24-Hour Emergency	1-866-413-7800
Sanling Energy Ltd.	Wells and pipelines in the area	24-Hour Emergency	1-888-262-5530
Shell Canada Limited	Wells and pipelines in the area	24-Hour Emergency	1-800-661-7378
TransCanada Corporation	Pipelines in the area	24-Hour Emergency	1-888-982-7222
Venturion Oil Limited	Wells in the area	24-Hour Emergency	1-877-303-7728
Whitecap Resources Inc.	Wells in the area	24-Hour Emergency	1-866-590-5289

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#### 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]

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


##### 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
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

#### 4.10 FOREST MANAGEMENT AREA(S)

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


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#### 4.11 FIRST NATIONS

There are no First Nations Reserves located within the Emergency Planning Zone.

NAME	CONTACT	TELEPHONE NUMBER	DESCRIPTION
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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

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## 5 GATHERING SYSTEM INFORMATION

### 5.1 FACILITY INFORMATION


#### 5.1.1 FACILITY SUMMARY

Facility Name	Clearhills
Facility Type	Gas plant
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

Facility Name	Floral
Facility Type	Gas plant
Facility Code	[REDACTED]
Legal Description	[REDACTED]
Facility Description	[REDACTED] [REDACTED] [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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### 5.1.2 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.

<b>ROADBLOCK KIT CONTENTS (CONSISTS OF)</b>	<b>QUANTITY</b>	<b>LOCATION</b>
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	Roadblock Kit stored at: Boundary Lk [REDACTED] Oil Battery
	1	Roadblock Kit stored at: Floral [REDACTED] Gas Plant
	1	Roadblock Kit stored at: Clearhills [REDACTED] Gas Plant
	1	Roadblock Kit stored at: Worsley West [REDACTED] Oil Battery
	1	Roadblock Kit stored at: Worsley [REDACTED] Oil Battery
	1	Roadblock Kit stored at: Sweeney [REDACTED] Oil Battery
	1	Roadblock Kit stored at: North Cecil [REDACTED] Gas Plant
	1	Roadblock Kit stored at: Lagarde [REDACTED] 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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### 5.1.3 EMERGENCY CONTROL SYSTEMS

TYPE	LOCATION	NOTES
ESD	[REDACTED]	
ESD	[REDACTED]	
CV	[REDACTED]	
ESD	[REDACTED]	
CV	[REDACTED]	
ESD	[REDACTED]	
CV	[REDACTED]	
ESD	[REDACTED]	
ESD	[REDACTED]	
ESD	[REDACTED]	

**Redacted –NEB Order AO-001-MO-006-2016,**  
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## 5.2 FACILITY, PIPELINE AND WELL INFORMATION

### 5.2.1 FACILITY RELEASE RATES AND EMERGENCY PLANNING ZONES

LOCATION	FACILITY TYPE	LICENSE NUMBER	FACILITY CODE	SUB	STATUS	VOL (m <sup>3</sup> )	EPZ (m)
[REDACTED]	Battery	[REDACTED]	[REDACTED]	NG	Operating	[REDACTED]	140
[REDACTED]	Battery	[REDACTED]	[REDACTED]	SG	Operating	[REDACTED]	1650
[REDACTED]	Battery	[REDACTED]	[REDACTED]	OE	Operating	[REDACTED]	10
[REDACTED]	Gas processing plant	[REDACTED]	[REDACTED]	SG	Operating	[REDACTED]	1650
[REDACTED]	Battery	[REDACTED]	[REDACTED]	SG	Operating	[REDACTED]	970
[REDACTED]	Compressor station	[REDACTED]	[REDACTED]	SG	Operating	[REDACTED]	390
[REDACTED]	Gas processing plant	[REDACTED]	[REDACTED]	SG	Operating	[REDACTED]	2430
[REDACTED]	Compressor station	[REDACTED]	[REDACTED]	NG	Operating	[REDACTED]	420
[REDACTED]	Battery	[REDACTED]	[REDACTED]	NG	TBC	[REDACTED]	270


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## 5.2.2 PIPELINE LIST LEGEND

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

**NOTE:** Discontinued sour pipelines have been given an EPZ of N/A and will be calculated if their status changes. No sweet natural gas, fuel gas, water or abandoned pipelines have been included.

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### 5.2.3 PIPELINE RELEASE VOLUMES AND EMERGENCY PLANNING ZONES - SORTED BY FROM LOCATION


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 <sub>2</sub> S (mol / kmol)	Length (km)	H <sub>2</sub> S Rel Vol (m <sup>3</sup> )	IIZ (m)	Set EPZ (m)	
AB: 280150-1 NEB: XG-B88-4-99	1	CNRL	FG	O	[REDACTED]	WE	[REDACTED]	GP-ESD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	470
AB: 80044-2 BC: 86943-1, 87896-1, 280314-1 NEB: XG-B88-42-96	1	CNRL	SG	O	[REDACTED]	WE	[REDACTED]	GP-ESD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	630
AB/BC: 86685-1 NEB: AO-02-XG-R66-04-96	1	CNRL	NG	O	[REDACTED]	PL-ESD	[REDACTED]	GP-ESD	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	330
AB: 80044-1 BC: 280336-1 NEB: XG-B88-2-93	1	CNRL	NG	O	[REDACTED]	CS	[REDACTED]	GP	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	610

\*\* 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

NOTES: 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 AND PUBLIC INFORMATION PACKAGE

As per Directive 71, the Alberta Energy Regulator 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

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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:

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

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**8 ENVIRONMENTAL EMERGENCY (E2)**

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**8.1 PROPANE**

**8.1.1 EMERGENCY RESPONSE PROCEDURES**

PROPANE						
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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### **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 CO<sub>2</sub>

### **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 discoloration 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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**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