



**DEEP BASIN DISTRICT
FORT ST. JOHN AREA**

NEBC PIPELINE SYSTEMS

CONVENTIONAL PIPELINES BUSINESS UNIT (CBU)

EMERGENCY MANAGEMANT PLAN

**24-HOUR EMERGENCY LINE:
1-800-360-4706**

**BC OGC 24 HOUR INCIDENT REPORTING LINE
1-800-663-3456**

Pouce Coupé Pipe Line Ltd., Plateau Pipeline Ltd., Pembina NGL Corporation and Pembina Energy Services Inc. are wholly-owned subsidiaries of Pembina Pipeline Corporation.

CONTAINS CONFIDENTIAL INFORMATION

This document is designed to supplement the Pembina Corporate Emergency Management Plan.

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DEEP BASIN DISTRICT – FORT ST JOHN AREA SPECIFIC INFORMATION

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- Area Response Equipment
- Site or System Specific Details

DISTRIBUTION LIST

Copies of this site-specific section (to work in conjunction with the Corporate ERP) are distributed according to the following distribution list. Overall responsibility for the distribution of the manuals rests with the Emergency Management (EM) Team.

Note: The manual distribution listing has been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

DEEP BASIN DISTRICT – FORT ST JOHN AREA

EMERGENCY RESPONSE PLAN

Version Date: February 2020

Version: 1.0

Note: The manual distribution listing has been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

DEEP BASIN DISTRICT – FORT ST JOHN AREA

EMERGENCY RESPONSE PLAN

Version Date: February 2020

Version: 1.0

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DEEP BASIN DISTRICT – FORT ST JOHN AREA

EMERGENCY RESPONSE PLAN

Version Date: February 2020

Version: 1.0

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REVISION RECORD

The Emergency Management (EM) Team in coordination with the appropriate District or Area Field Offices/Facilities shall be responsible for the maintenance of this ERP.

This ERP will be reviewed, validated, and updated regularly, or on an as-needed basis, to ensure all applicable regulations are met.

All updates shall be distributed to each individual plan holder, who will be responsible for incorporating them into their copy of the ERP, as they are received.

Version	Date of Revision	Description of Revisions
--	Prior to 2020	Revision records have been archived. Outdated manuals are to be recalled.
1.0	February 29, 2020	Restructured the ERP document. Reviewed and completed necessary revisions to content.

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Emergency Response Plan (ERP) Revision Request Form

EM 5.3.1-FRM V1 11-2017

NOTE: If you find any errors in the ERP, or if you become aware of regulatory or industry procedural changes, please document that information and forward to Pembina’s Emergency Management (EM) Team for inclusion in the next update of the ERP(s).

Send to: Pembina Pipeline Corporation
4000, 585 – 8 Avenue S.W.
Calgary, AB T2P 1G1

Or E-mail: Emergency.Management@pembina.com

ERP REVISION IDENTIFICATION INFORMATION		
ERP NAME:		
VERSION NUMBER/DATE:	SECTION NUMBER:	PAGE NUMBER:
REVISION REQUESTED BY:	ORGANIZATION:	
DESCRIPTION OF REVISION		
RATIONALE		
EM TEAM USE ONLY		
REVIEWED/APPROVED BY:	CORRECTIVE ACTION NO.:	
If not approved, provide explanation and date follow up communication to Requestor completed.:		

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1.0 INTRODUCTION

This supplement is intended to work in conjunction with the Pembina Corporate Emergency Management Plan (ERP), which is based on the Incident Command System (ICS).

The Corporate ERP includes:

- Internal notification and activation guidelines
- Response management / organizational details
- Incident classification tools
- Responder roles and responsibilities
- Public protection measures
- Communication strategies and protocols
- Incident investigation and recovery considerations
- Training and exercise expectations
- Forms for incident documentation

It is imperative that company personnel and contractors become familiar with site or system specific related duties and responsibilities outlined in this supplemental ERP. An effective response to any emergency requires preplanning and testing, to ensure all personnel are aware of their duties and that they can effectively implement them.

In preparing this supplement, the following factors were considered, as appropriate:

- Properties/characteristics and quantities of product being transported and/or stored
- Regular activities on site or within the Emergency Planning Zone (EPZ), where established
- Potential consequences to human life and health, as a result of an operational upset
- Potential consequences to the environment, as a result of an operational upset

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2.0 CONTACT NUMBERS

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

2.1 Pembina Corporate Contacts

Name	Location	Phone Number
Corporate Contact Numbers		
24 Hour Emergency Sherwood Park Control Centre	Sherwood Park	1-800-360-4706
Emergency Management 24-Hour On-Call	Calgary	
Crisis Communication Team 24-Hour On-Call	Calgary	
Environment 24-Hour On-Call	Calgary	
Corporate EOC	Calgary	
Head Office – Main Reception	Calgary	403-231-7500
Aboriginal and Community Relations	Calgary	
Sherwood Park Control Centre Foreman 1	Sherwood Park	
Calgary Contact Numbers		
Fort St. John Office	Fort St. John	
Grande Prairie	Grande Prairie	
Taylor Terminal	Taylor	
Calgary Contact Numbers		
General Manager, Operations (CBU)	Calgary	
Manager Operations (CBU)	Calgary	
Manager, Operations Engineering (CBU)	Calgary	

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Corporate Radiation Safety Officers (RSO)		
Office	Name	Cell
<p>If notified of damage to a radiation device / nuclear gauge:</p> <ol style="list-style-type: none"> 1. Please call the area Site RSO immediately to respond to the site, 2. Confirm they will secure the area and will measure the hazard with a radiation survey meter. 3. Next, notify the Corporate RSO of the issue, and the immediate response taken. 4. The Corporate Radiation Safety Officer will contact corporate management and the Canadian Nuclear Safety Commission. These units are licensed by the Canadian Nuclear Safety Commission, they have strict requirements for managing these units, and notification of incidents. 		

Site Radiation Safety Officers (RSO)		
Office	Name	Cell
	CBU	
	OBU	

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Corporate Internal Technical Resources	
Emergency Management	
ICS, emergency management, sensitive environment response, regulatory compliance, spill containment & recovery, environmental assessment, wildlife management response logistics, public protection support	
Communications	
Media relations, crisis communications, corporate spokesperson, corporate website/dark site administrator, public relations strategist	
Security	
Security Management & Security Threat Response	
Environment	
Environmental response, environmental management, environmental sampling, sensitive environment response, wildlife management, regulatory compliance, environmental assessment	
GIS / Mapping	
GIS and mapping support, GIS layer sourcing, data visualization	
Regulatory	
Regulatory compliance, regulatory affairs, regulatory liaison	
Land	
Surface lands compliance, access negotiation, public information, landowner compensation	
Safety	
Site safety, risk assessment, project safety, safety plan development	
Supply Chain	
Vendor approvals, logistics, vendor on-boarding, vendor selection. Includes category specialist for Pembina chartered air travel.	
Information Systems	
IT management, IT security, IT resourcing, IT process and system compliance	
Finance	
Finance and admin, project costing, PO development, AFE development, cost tracking, financial systems	

2.2 Pembina Fort St. John Office Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Field Office Contact Numbers			
Name	Title	Office	Cell
Incident Commanders			
Safety Officers			
Liaison Officers			
Public Information Officers			
Scribes			
Logistics Section Chiefs			
Planning Section Chiefs			
Finance / Admin. Section Chiefs			

Note: The manual distribution listing has been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Name	Title	Office	Cell
Operations Section Chief			
Designated Boat Captain(s)			

Registered STARS Sites	

2.3 Pembina Fort St. John Facility Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name	Location	Phone Number

2.4 British Columbia Emergency Services

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name of Organization	Address	City/Town	Phone Number
Fire Department			
Charlie Lake Fire Department		Charlie Lake	
Dawson Creek Fire Department		Dawson Creek	
Fort St. John Fire Rescue		Fort St. John	
Taylor Fire Department		Taylor	
Tomslake Fire Department – George Giersch, Chief		Tomslake	
BC Forest Fire Services		Prince George	
Police			
Chetwynd RCMP Detachment		Chetwynd	
Dawson Creek RCMP Detachment		Dawson Creek	
Fort St. John RCMP Detachment		Fort St. John	
Hudson’s Hope RCMP Detachment		Hudson’s Hope	

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Name of Organization	Address	City/Town	Phone Number
Ambulance			
STARS		Grande Prairie	
BC Emergency Health Services (Ambulance, including Air)		Province-wide	
Cellphone / SAT Phone / Outside BC			
Non-Emergency Administration (Kamloops Dispatch)			
Hospitals			
Chetwynd Hospital & Health Centre		Chetwynd	
Dawson Creek and District Hospital		Dawson Creek	
Fort St. John Hospital		Fort St. John	
Emergency Response Assistance Canada (ERAC)			
Pembina ERP Reference Numbers LPG Products: ERP2-0010-154 Crude & Condensate: ERP2-1933-038		Canada-wide	

2.5 Federal Government Reporting Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Agency	Reporting	Location	Phone Number
Regulators			
Canada Energy Regulator	Immediately Reportable Events (as defined on page 1-21 of Pembina’s Corporate emergency response plan) on any CER regulated pipeline or facility should be reported immediately (ASAP and no later than three hours of the incident being discovered) to the TSB’s Reporting Hotline as well as electronically in the CER’s Online Event Reporting System (OERS) at https://apps.cer-one.gc.ca/ers . All other events not deemed “significant” must be reported within 24 hours of occurrence or discovery to the Online Reporting System.	Federal	

2.6 British Columbia Government Reporting Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Agency	Reporting	Location	Phone Number
Regulators			
Environment Canada via Emergency Management BC (EMBC)	<p>Regulations do not specify and quantified thresholds; therefore, all environmental emergencies involving a E2 regulated substance must be reported.</p> <ul style="list-style-type: none"> • a verbal notification is to be made as soon as possible • a written report should be made within 30 days 	Province-wide	
BC Oil and Gas Commission (OGC)	<ul style="list-style-type: none"> • Minor incidents (not meeting OGC Level 1, 2, or 3 classification) must be reported to the Commission within 24 hours through the Commission’s Online Minor Incident Reporting System, operated by KERMIT. • Level 1, 2, or 3 incidents must be reported through EMBC. The OGC’s Duty Officer will be notified by EMBC, and will directly contact the permit holder • For minor spill incidents, EMBC is called promptly and a Dangerous Goods Incident Report (DGIR) will be issued. 	Province-wide	

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Agency	Reporting	Location	Phone Number
Local Authorities			
City of Fort St. John	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 	Fort St. John	
Peace River Regional District	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 	Dawson Creek	
District of Taylor	<ul style="list-style-type: none"> • Must notify at a Minor Emergency if members of the public or media have been contacted • Must notify at a Level 1, 2 and 3 Emergency 	Taylor	
Health Authority			
Health Emergency Management BC (HEMBC) / Northern Health Authority	<ul style="list-style-type: none"> • Must notify at a Minor Emergency if members of the public or media have been contacted • Must notify at a Level 1, 2 and 3 Emergency 	Province-wide	
First Nations Health Council	<ul style="list-style-type: none"> • Must notify at a Minor Emergency if members of the public or media have been contacted • Must notify at a Level 1, 2 and 3 Emergency 	West Vancouver	

2.7 British Columbia Additional Government Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Agency	Reporting	Location	Phone Number
BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development	<ul style="list-style-type: none"> Wildfire reporting 	Province-wide	
BC Ministry of Transportation & Infrastructure	<ul style="list-style-type: none"> To report issues to Interior Roads Ltd. (IRL) that maintains the North Peace Area of the Alaska Highway north of the Peace River (Taylor Bridge to Mile 83) 	Taylor Bridge – Mile 83	
	<ul style="list-style-type: none"> To report issues to Caribou Road Services that maintains the South Peace Area of the Alaska Highway south of the Peace River (Taylor Bridge) 	Taylor Bridge	
WorkSafe BC	<ul style="list-style-type: none"> To report danger to a workplace injury or disease 	Province-wide	
Technical Safety BC	<ul style="list-style-type: none"> Oversees safe installation and operation of technical systems and equipment 	Province-wide	
BC One-Call	<ul style="list-style-type: none"> Information on underground facilities beneath potential dig sites 	Province-wide	
Transport Canada (Dangerous Goods)	<ul style="list-style-type: none"> CANUTEC Emergency Line To report a transportation related incident including a spill, release or fire 	Federal	
BC Drug & Poison Information Centre (BC DPIC)	<ul style="list-style-type: none"> 24 Hour Drug and Poison Expertise & Advice 	Province-wide	
Dept. of Fisheries and Oceans (DFO)	<ul style="list-style-type: none"> To report a spill or gas release impacting waterways 	Sarnia	
Navigable Water/Office of Boating	<ul style="list-style-type: none"> To report a spill or gas release impacting waterways (Transport Canada) 	Province-wide	

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Agency	Reporting	Location	Phone Number
NAV Canada – Customer Service Centre	<ul style="list-style-type: none"> To request a Notice to Airmen (closure of air space) in consultation with the appropriate government authorities 	Federal	
Canadian Transport Emergency Centre (CANUTEC)	<ul style="list-style-type: none"> To report a transportation related incident including a spill, release or fire 	Federal	
Search and Rescue	<ul style="list-style-type: none"> To request search and rescue assistance 	Province-wide	

2.8 British Columbia Mutual Aid Groups

Western Canadian Spill Services Cooperative (WCSS)					
Area	City/Town	Title	Name	Company	Phone Number
C		24 Hour Emergency Line			
		Chairman			
		Alternate Chairman			
	Fort St. John	Regional Custodian			
	Fort Nelson	Coop Custodian			

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Emergency Response Assistance Canada (ERAC)		
Emergency Reporting Line	ERAP Plan Reference	
	Crude & Condensate:	LPG Products:
<p>Pembina is a member of Emergency Response Assistance Canada (ERAC). ERAC’s Emergency Response Assistance Plan (ERAP) provides assistance to members who transport the following products by road or rail, or those who store these products in tanks with capacities of 450 litres or greater. These products are gases (LPG) at standard temperatures and pressure, and include:</p> <ul style="list-style-type: none"> • Propane (UN1978) • Butane (UN1011) • Propylene (UN1077) • Butylene (UN1012) • Isobutene (UN1969) • Isobutylene (UN1055) <p>ERAC also provides response to emergencies involving Butadiene – 1,3 stabilized (UN1010).</p> <p>In addition, we respond to the following flammable liquids transported by rail only:</p> <ul style="list-style-type: none"> • Ethanol (UN1170) • Diesel Fuel (UN1202) • Gasoline (UN1203) • Petroleum Crude Oil (UN1267) • Petroleum Distillates N.O.S. (UN1268) • Fuel Aviation, Turbine Engine (UN1863) • Alcohols, N.O.S. (UN1987) • Flammable Liquid, N.O.S. (UN1993) • Hydrocarbons, Liquid, N.O.S. (UN3295) • Ethanol and Gasoline Mixture (UN3475) • Petroleum Sour Crude Oil, Flammable, Toxic (UN3494) <p>Emergency service beyond core Flammable Liquids and LPGs also include additional products, such as anhydrous ammonia, LNG, CNG and acids and bases.</p>		

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Canada Energy Pipeline Association (CEPA)			
Company	Name	Primary Contact Number	Secondary Contact Number
Alliance Pipeline			
Kinder Morgan			
Pembina Pipeline			
Spectra Energy Transmission			
TransCanada Pipelines			

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Taylor Industrial Mutual Aid Group (TIMAG)	
Activation through	Phone Number

2.9 British Columbia Government Agency Mutual Aid

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

In addition to the standard government agency duties listed in the Corporate ERP, consultations were conducted with the following local agencies.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Roles and Responsibilities				
Municipal Resources				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Roles and Responsibilities				
Municipal Resources				
•				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Roles and Responsibilities				
•				
Municipal Resources				
•				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Zone	24 Hour Number	Alternate Contact
Health Emergency Management BC Roles and Responsibilities			
•			

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Health Emergency Management BC Roles and Responsibilities
•
Available Resources

2.10 British Columbia Emergency Response Support Services

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Company Name	Equipment	Location	Main Number	24 Hour Number
Air Monitoring				
<i>Ensure monitors are capable of reading LEL levels</i>				
Communications				
Industrial Firefighting				
Helicopters				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Company Name	Equipment	Location	Main Number	24 Hour Number
Portable Flare Systems				
Potable Water Trucks				
<i>May be required for industrial firefighting support</i>				
Emergency Management Consultants				
Wildlife Management				
Wildlife Rehabilitation				

Vendors that provide support services during regular operations may also be utilized during an emergency; however, contact information for those services is maintained outside of this plan.

2.11 British Columbia Reception Centres

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina and the Local Authority. These agencies have pre-established locations throughout the Municipality and should be notified early to discuss site options. Hotels/Motels may be considered in situations where immediate access is required or a location is required outside of normal business hours.

Name of Centre	Address	Amenities	Contact	Phone Number

2.12 British Columbia School Districts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name	Address	City / Town	Contact Name	Phone Number
Peace River North District No. 60				
Peace River South District No. 59				
Christian Life Centre				
Catholic Independent Schools - Diocese of Prince George				
Dawson Creek Community Christian Education Society				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name	Address	City / Town	Contact Name	Phone Number
Elders of the Church at Blueberry				
Members of Montney Mennonite Church				
Members of the Evangelical Free Christian Church of Maccabee				
Mountain Christian School Society				
School Board – Roles & Responsibilities				
<p>In the event of an emergency the School Division will be contacted by Pembina and advised of the situation. Pembina will provide the School Division with area of incident, roadblock locations and a list of students whose homes have been isolated / evacuated.</p> <p>The affected School Division will contact its Student Transportation Department and advise of any detour re-routes. The School Division in consultation with impacted schools will determine appropriate protocol for students whose homes have been evacuated and advise school buses appropriately. Dependent on the time of day the School Division may direct students to be returned to the school, or may direct buses to deliver students to the designated Reception Centre.</p>				

2.13 Pembina Grande Prairie Office Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Field Office Contact Numbers			
Name	Title	Office	Cell
Incident Commanders			
Safety Officers			
Liaison Officers			
Public Information Officers			
Scribes			
Logistics Section Chiefs			
Planning Section Chiefs			

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Finance / Admin. Section Chiefs			
Security Branch Directors			
Designated Boat Captain(s)			
Response Branch Directors			
Public Protection Branch Directors			

Registered STARS Sites	

2.14 Pembina Grande Prairie Facility Contacts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name	Location	Phone Number

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2.15 Alberta Emergency Services

Name of Organization	Address	City/Town	Phone Number	
Fire Department				
Birch Hills County				
Bonanza – Brent Rogers, District Chief				
Central Peace Fire/Rescue Commission				
MD of Spirit River		Brian Kroes, Manager / Fire Chief		
Town of Spirit River				
Village of Rycroft				
Eaglesham – Tom Morgan, Fire Chief				
Happy Valley – Lawrence Andruchiw, Dist. Chief				
Saddle Hills County – Brian Ballard, Dir./Fire Chief				
Wanham – Darcy Parlee, Fire Chief				
Woking – Larry Schuett, District Chief				
Report a Wildfire				
Police				
Fairview RCMP Detachment				
Spirit River RCMP Detachment				
Ambulance				
Ground Ambulance provided by AHS				
STARS				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Hospitals			
Beaverlodge Municipal Hospital			
Fairview Health Complex			
Central Peace Health Complex			
Queen Elizabeth II Hospital			
Emergency Response Assistance Canada (ERAC)			
Pembina ERP Reference Numbers			
LPG Products:			
Crude & Condensate:			

2.16 Alberta Government Reporting Contacts

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Agency	Reporting	Location	Phone Number
Regulators			
Environment Canada via Alberta Environment and Parks (AEP)	Regulations do not specify and quantified thresholds; therefore, all environmental emergencies involving a E2 regulated substance must be reported. <ul style="list-style-type: none"> • a verbal notification is to be made as soon as possible • a written report should be made within 30 days 		
Alberta Energy Regulator (AER)	Verbal notification immediately: <ul style="list-style-type: none"> • At a Level 1, 2 or 3 Emergency • If members of the public or media are contacted • Any substance release that may cause, is causing, or has caused an adverse effect* • Any substance release into a waterbody • Any uncontrolled gas release of more than 30,000 m³ • Any well flowing uncontrolled • Pipeline hits • Any unrefined product release of more than 2 m³ on lease • Any unrefined product release of any amount off lease • Any pipeline release or pipeline break (including during pressure testing) • Any fire that caused by a flare or incinerator • Any fire causing a loss of more than 2 m³ of oil or 30,000 m³ of gas, or causing damage to a wellhead • Any fire that occurs on an oil sands site that results in the deployment of major firefighting equipment 		

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Agency	Reporting	Location	Phone Number
Local Authorities			
Birch Hills County	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
Clear Hills County	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
Saddle Hills County	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
MD of Spirit River	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
Town of Spirit River	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
Health Authority			
Alberta Health Services – Edmonton Zone	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		
First Nations Health	<ul style="list-style-type: none"> • Must notify at a Level 1 Emergency if members of the public or media have been contacted • Must notify at a Level 2 and 3 Emergency 		

2.17 Alberta Additional Government Contacts

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Agency	Reporting	Location	Phone Number
Alberta Emergency Management Agency (AEMA) – Agency Response Readiness Centre (ARRC)	<ul style="list-style-type: none"> If required, as a courtesy, to report a spill, gas release, fire/explosion, or when there is impact to the public 		
Alberta Environment and Parks – Fish and Wildlife	<ul style="list-style-type: none"> To report a spill, gas release, fire/explosion, or when there is impact to the public 		
Agriculture and Forestry – Forests	<ul style="list-style-type: none"> To report a wildfire 		
Alberta Transportation – Dangerous Goods	<ul style="list-style-type: none"> To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion 		
Alberta Transportation – District Office	<ul style="list-style-type: none"> Grande Prairie District Office 		
Highway Maintenance Contractor CMA 504 & 508 - Ledcor	<ul style="list-style-type: none"> To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion 		
Highway Maintenance Contractor CMA 501,502 &503 – LaPrairie Works Inc.	<ul style="list-style-type: none"> To report when a single or double numbered highway is or may be impacted by a spill, release, or fire/explosion 		
Occupational Health & Safety (OH&S)	<ul style="list-style-type: none"> To report danger to a worker from a spill, release or fire/explosion To report a fatality (within 24 hours) or a serious injury (within 72 hours) 		
Worker’s Compensation Board (WCB)	<ul style="list-style-type: none"> To report a fatality (within 24 hours) or a serious injury (within 72 hours) 		

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Alberta Boilers Safety Association (ABSA) – Edmonton Office	<ul style="list-style-type: none"> • Report when a pressure vessel is involved 		
Municipal Affairs – Safety Services Branch	<ul style="list-style-type: none"> • To report a fire/explosion or electrical incident 		
Dept. of Fisheries and Oceans (DFO)	<ul style="list-style-type: none"> • To report a spill or gas release impacting waterways 		
Transport Canada – Navigable Water/Office of Boating	<ul style="list-style-type: none"> • To report a spill or gas release impacting waterways 		
Alberta One-Call	<ul style="list-style-type: none"> • As a courtesy, to report a spill or gas release 		
NAV Canada – Customer Service Centre	<ul style="list-style-type: none"> • To request a Notice to Airmen (Closure of Air Space) in consultation with the appropriate government authorities 		
Canadian Transport Emergency Centre (CANUTEC)	<ul style="list-style-type: none"> • To report a transportation related incident including a spill, release or fire 		
Canadian Coast Guard – Search and Rescue	<ul style="list-style-type: none"> • To request search and rescue assistance 		

2.18 Alberta Mutual Aid Groups

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Western Canadian Spill Services Cooperative (WCSS)					
Area	City/Town	Title	Name	Company	Phone Number
T		24 Hour Emergency Line			1-866-541-8888
		Chairman			
		Alternate Chairman			
		Regional Custodian			
		Coop Custodian			
		Coop Custodian			

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Emergency Response Assistance Canada (ERAC)		
Emergency Reporting Line	ERAP Plan Reference	
	Crude & Condensate:	LPG Products:
<p>Pembina is a member of Emergency Response Assistance Canada (ERAC). ERAC's Emergency Response Assistance Plan (ERAP) provides assistance to members who transport the following products by road or rail, or those who store these products in tanks with capacities of 450 litres or greater. These products are gases (LPG) at standard temperatures and pressure, and include:</p> <ul style="list-style-type: none"> • Propane (UN1978) • Butane (UN1011) • Propylene (UN1077) • Butylene (UN1012) • Isobutene (UN1969) • Isobutylene (UN1055) <p>ERAC also provides response to emergencies involving Butadiene – 1,3 stabilized (UN1010).</p> <p>In addition, we respond to the following flammable liquids transported by rail only:</p> <ul style="list-style-type: none"> • Ethanol (UN1170) • Diesel Fuel (UN1202) • Gasoline (UN1203) • Petroleum Crude Oil (UN1267) • Petroleum Distillates N.O.S. (UN1268) • Fuel Aviation, Turbine Engine (UN1863) • Alcohols, N.O.S. (UN1987) • Flammable Liquid, N.O.S. (UN1993) • Hydrocarbons, Liquid, N.O.S. (UN3295) • Ethanol and Gasoline Mixture (UN3475) • Petroleum Sour Crude Oil, Flammable, Toxic (UN3494) <p>Emergency service beyond core Flammable Liquids and LPGs also include additional products, such as anhydrous ammonia, LNG, CNG and acids and bases.</p>		

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Canada Energy Pipeline Association (CEPA)			
Company	Name	Primary Contact Number	Secondary Contact Number

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

2.19 Alberta Government Agency Mutual Aid

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

In addition to the standard government agency duties listed in the Corporate ERP, consultations were conducted with the following local agencies.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Local Authority	Birch Hills County			
Roles and Responsibilities				
•				
Municipal Resources				
•				
Reception Centre(s)				
Emergency Operations Centre(s)				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Local Authority	Clear Hills County			
Notification				
Roles and Responsibilities				
•				
Roles and Responsibilities Cont'd.				
•				
Municipal Resources				
Reception Centre(S)				
Emergency Operations Centre(s)				
Description of Drinking Water Systems and other important features				
Planned Development				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Local Authority	Saddle Hills County			
Notification				
Roles and Responsibilities				
<ul style="list-style-type: none">•				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Municipal Resources
Reception Centre(s)
Emergency Operations Centre(s)

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Local Authority	MD of Spirit River No. 133			
Notification				
Roles and Responsibilities				
•				
Municipal Resources				
•				
Reception Centre(s)				
Emergency Operations Centre(s)				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Municipality	Main Phone Number	Contact Name / Title	24 Hour Phone Number
Local Authority	Town of Spirit River			
Notification				
Roles and Responsibilities				

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Municipal Resources
<ul style="list-style-type: none">•

Note: Information collected during consultation with supporting agencies, including available support services and resources, names and phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private and confidential information.

Contact Type	Zone	24-Hour Number	Alternate Contact
Alberta Health Services	North Zone		
Environmental Public Health Roles and Responsibilities			
•			

2.20 Alberta Emergency Response Support Services

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Company Name	Equipment	Location	Main Number	24 Hour Number
Air Monitoring				
<i>Ensure monitors are capable of reading LEL levels</i>				
Communications				
Industrial Firefighting				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Helicopters				
Portable Flare Systems				
Potable Water Trucks		<i>May be required for industrial firefighting support</i>		
Emergency Management Consultants				
Emergency Management Consultants Cont'd.				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Wildlife Management				
Wildlife Rehabilitation				

Vendors that provide support services during regular operations may also be utilized during an emergency, however, contact information for those services is maintained outside of this plan.

2.21 Alberta Reception Centres

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

To ensure a coordinated response, the Reception Centre(s) is ideally activated jointly by Pembina and the Local Authority. These agencies have pre-established locations throughout the Municipality and should be notified early to discuss site options. Hotels/Motels may be considered in situations where immediate access is required or a location is required outside of normal business hours.

Name of Centre	Address	Amenities	Contact	Phone Number

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

2.22 Alberta School Districts

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Name	Address	City / Town	Contact Name	Phone Number
Peace Wapiti School Division No.76				
Grande Prairie Catholic School Division No.28				
Grande Prairie School District No. 2357				
Northland School Division No. 61				
Northwest Francophone Education Region No. 1				

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

School Board – Roles & Responsibilities

3.0 SAFETY EQUIPMENT AND RESOURCES

3.1 Operating Area Equipment Listing

Pembina may respond using a wide variety of equipment depending upon the severity of the event. Additional resources may be obtained from area emergency services, mutual aid partners, third party contractors, or additional Pembina owned equipment caches, depending on the nature of the emergency.

Equipment for the operating area is located in Fort St. John, Grande Prairie and the Mile 73 Terminal. An equipment listing is located in the Appendices of this manual; however, the most detailed listing is maintained on Pembina's internal intranet site, The Pipeline.

3.2 Personal Protective Equipment (PPE)

The following is a list of personal protective equipment employees and contractors are required to wear, as appropriate:

- Fire-resistant clothing
- Hard hats
- Safety glasses
- Safety boots
- Gloves
- Personal monitor

3.3 Communications/Radio Frequencies

Landlines at the field office and facilities, cell phones and/or truck radios are regularly used for communications. As required, additional radios and satellite phones will be resourced and used for communications.

In an emergency, confirm the use of any area specific radio channels or special instructions for radio-controlled roads with local personnel.

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4.0 TRANSPORTED OR STORED PRODUCTS

4.1 Product Handling and Storage

General product characteristics of products transported or stored are listed below. For a complete Safety Data Sheet (SDS) including first aid, firefighting measures, and accidental release response refer to Pembina’s SDS database on Pembina’s internal intranet site, The Pipeline.

Product	Hazards	Handling and Storage
Propane And Propane Plus	<ul style="list-style-type: none"> • Colourless, compressed gas with slight hydrocarbon odour • Extremely flammable gas, easily ignited by heat, sparks or flames • Will form explosive mixtures with air • Vapours from liquefied gas are initially heavier than air and spread along the ground, may travel to source ignition and flash back • Cylinder exposed to fire may vent and release flammable gas through pressure relief valves • Do not extinguish a leaking gas fire unless the leak can be stopped 	<ul style="list-style-type: none"> • May cause respiratory irritation displayed as cough, sneezing, nasal discharge, headache, hoarseness and nose/throat pain or suffocation if oxygen has been displaced • May cause eye irritation (redness, swelling, pain, tearing and blurred/hazy vision) • May cause skin irritation (redness, swelling and itching). Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite • May be fatal if swallowed and enters airways. May cause gastrointestinal irritation (abdominal pain, stomach upset, nausea, vomiting and diarrhea)
Condensate	<ul style="list-style-type: none"> • Extremely flammable liquid and vapour • Easily ignited by heat, sparks or flame • Most vapours are heavier than air and spread along the ground and collect in low or confined areas • Vapours may travel to the source of ignition and flash back 	<ul style="list-style-type: none"> • Wear protective gloves, protective clothing and eye protection • Ensure adequate ventilation • Do not breathe mist, vapours or spray • Keep away from heat, sparks, open flames, and hot surfaces • Store in well-ventilated area • Keep container tightly closed • Keep container cool

Product	Hazards	Handling and Storage
Crude Oil	<ul style="list-style-type: none"> • Extremely flammable liquid and vapour • Will be easily ignited by heat, sparks or flame • Vapour may form explosive mixtures with air • Vapours may travel to source of ignition and flash back • Most vapours are heavier than air and may spread along the ground and collect in low or confined areas 	<ul style="list-style-type: none"> • Wear safety glasses • Wear protective clothing • Do not breathe mist, vapour or spray • Keep away from heat, sparks, open flames and hot surfaces • Do not smoke • Store in well ventilated area • Keep container tightly closed • Keep cool • Store locked up
Ethane Plus	<ul style="list-style-type: none"> • Colourless, compressed gas with slight hydrocarbon odour • Extremely flammable gas, contains gas under pressure may explode if heated. • Will form explosive mixtures with air • Vapours may travel to source ignition and flash back • Cylinder exposed to fire may vent and release flammable gas through pressure relief valves • Do not extinguish a leaking gas fire unless the leak can be stopped 	<ul style="list-style-type: none"> • May displace oxygen and cause rapid suffocation. • This product may contain small amounts of hydrogen sulphide (H₂S), inhalation may cause loss of sense of smell, major irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and fluid buildup in the lungs, which can be fatal • Contact with rapidly expanding or liquefied gas may cause irritation and/or frostbite • May cause damage to organs through prolonged or repeated exposure

DEEP BASIN DISTRICT - FORT ST. JOHN AREA EMERGENCY RESPONSE EQUIPMENT LISTING

Fort St. John	
Details:	
Contact(s):	
Transportation:	
	Land/Creek Units are 20' c-can units that include the tools, equipment and supplies need to respond to spills impacting small water courses and dry land. These units include containment such as turner valley gates and inverted weirs to used to contain spills in small shallow water bodies, recovery equipment, hand tools, and consumables such as sorbent pads.
	Large containment units include equipment required to effectively complete initial containment operations for a release impacting a large waterbody. These units include 5,000' of containment boom and the required ropes, anchor material, and safety equipment necessary for installation.
	Recovery units include equipment required to complete recovery operations involving a spill into a waterbody. These units include rotatory drum skimmers, weir skimmers, pumping equipment, and storage equipment needed to complete recovery operations.
	The wildlife response unit is a 20' c-can unit that includes all of the equipment required to manage and reduce impacts too wildlife during a response. The unit includes wildlife deterrents (Physical, visual and auditory), wildlife capture tools, wildlife transport equipment and hand tools required to effectively implement a wildlife management plan.
	The winter response unit includes equipment required to respond to a release to a waterbody in winter conditions. This unit includes ice assessment equipment, ice safety equipment, ice chain saws, hand tools and initial wildlife response equipment.
	Decontamination Units include equipment and materials required to ensure that personnel and equipment are effectively decontaminated prior to leaving the work area. These units include shelters, wash bins, wash equipment, soaps and cleaning agents, disposal equipment and materials, seating, safety equipment and a change area for personnel to store, doth, and don PPE.

DEEP BASIN DISTRICT - FORT ST. JOHN AREA

EMERGENCY RESPONSE EQUIPMENT LISTING

Version Date: February 2020

Version: 1.0

Fort St. John	Location: 10919 - 89 Avenue, Fort St. John
	<p>This spill response unit is a 12' trailer unit with equipment storage and an office area. The unit contains equipment to complete containment and recovery operations for a major release. The unit includes 100' of river boom, pumping equipment, anchor materials, ropes, hand tools, safety equipment, PPE, and consumables such as sorbent material needed to respond to a small release on a water body.</p>
	<p>Office trailers are designed to house a Section of the Field Incident Command Team or to be staged at a location for use by Operations personnel as a remote office or security check point. These units include 4 work stations, office supplies, AV equipment, communications equipment and IT equipment.</p>
	<p>Small work boats jet boats designed to operate in shallow water and rivers and deploy containment and recovery equipment. The boats are outboard jet drive and include all safety equipment and tools needed to safely complete response operations associated with a release into a waterbody.</p>
	<p>Large work boats are landing craft style jet boats designed to operate in shallow water and rivers and deploy containment and recovery equipment. The boats are inboard jet drive and include all safety equipment and tools needed to safely complete response operations associated with a release into a large waterbody.</p>

DEEP BASIN DISTRICT - FORT ST. JOHN AREA

EMERGENCY RESPONSE EQUIPMENT LISTING

Version Date: February 2020

Version: 1.0

Grande Prairie	
Details:	
Contact(s):	
Transportation:	
	Large containment units include equipment required to effectively complete initial containment operations for a release impacting a large waterbody. These units include 5,000' of containment boom and the required ropes, anchor material, and safety equipment necessary for installation.
	Large work boats are landing craft style jet boats designed to operate in shallow water and rivers and deploy containment and recovery equipment. The boats are inboard jet drive and include all safety equipment and tools needed to safely complete response operations associated with a release into a large waterbody.
	This roadblock unit contains all equipment required to establish 3 roadblock locations and includes signage, road blocks, lights and safety equipment.
	The winter response unit includes equipment required to respond to a release to a waterbody in winter conditions. This unit includes ice assessment equipment, ice safety equipment, ice chain saws, hand tools and initial wildlife response equipment.
	Recovery units include equipment required to complete recovery operations involving a spill into a waterbody. These units include rotatory drum skimmers, weir skimmers, pumping equipment, and storage equipment needed to complete recovery operations.
	Logistics units are designed to contain some of the key consumables that are commonly used in the early stages of a response. These units include spill specific PPE such as Tyvex coveralls and gloves, rain and wet gear, pads and wash materials, disposal materials and hand tools.
	The wildlife response unit is a 20' c-can unit that includes all of the equipment required to manage and reduce impacts too wildlife during a response. The unit includes wildlife deterrents (Physical, visual and auditory), wildlife capture tools, wildlife transport equipment and hand tools required to effectively implement a wildlife management plan.
	Office trailers are designed to house a Section of the Field Incident Command Team or to be staged at a location for use by Operations personnel as a remote office or security check point. These units include 4 work stations, office supplies, AV equipment, communications equipment and IT equipment.
	Land/Creek Units are 20' c-can units that include the tools, equipment and supplies need to respond to spills impacting small water courses and dry land. These units include containment such as turner valley gates and inverted weirs to used to contain spills in small shallow water bodies, recovery equipment, hand tools, and consumables such as sorbent pads.

DEEP BASIN DISTRICT - FORT ST. JOHN AREA

EMERGENCY RESPONSE EQUIPMENT LISTING

Version Date: February 2020

Version: 1.0

Mile 73	
Details:	
Contact(s):	
Transportation:	
	Land/Creek Units are 20' c-can units that include the tools, equipment and supplies need to respond to spills impacting small water courses and dry land. These units include containment such as turner valley gates and inverted weirs to used to contain spills in small shallow water bodies, recovery equipment, hand tools, and consumables such as sorbent pads.

For a detailed listing of all Pembina owned response equipment, refer to Pembina's internal intranet portal, The Pipeline.

NEBC HVP PIPELINE SYSTEMS

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1.0 SYSTEM DESCRIPTION

Pouce Coupé Pipe Line Ltd., Plateau Pipeline Ltd., Pembina NGL Corporation and Pembina Energy Services Inc. are wholly-owned subsidiaries of Pembina Pipeline Corporation.

Pouce Coupé Pipe Line Ltd. owns and operate four pipelines that are regulated by the Canada Energy Regulator (CER):

- The first, the Northwest Transmission System, operates as part of the 20 km Boundary Lake Crude Gathering System, transporting crude of varying densities as well as condensate. The portion of the pipeline regulated by the CER was De-activated in 2017.
- The second, the Pouce Coupé System, which interconnects with the Peace System – Plateau Pipe Line, is operated in a batch mode where products transported include NGL, condensate and crude oil. It is a short designate of pipe within the Dawson Creek to Gordondale segment. There is also a lateral pipeline, the Pouce Coupé Lateral, that is CER regulated and runs from the Dawson Meter Station to 07-20-078-12 W6M which carries LVP product.
- Finally, the Northern System transports NGL-HVP (ethane) from the Northern Taylor Pump Station to the Belloy Block Valve connection. In 2014, The Northern Pipeline Diversion was added, which includes 2 parallel pipeline segments to and from NE 03-079-10 W6M and the Gordondale Block Valve at SE 10-079-10 W6M.

Plateau Pipeline Ltd. owns and operates pipelines within two systems that are regulated by the BC Oil and Gas Commission (OGC):

- Plateau owned pipelines within the Peace System include;
 - a pipeline that is licensed for HVP service, but is used presently for transporting condensate from the Taylor Tank Terminal to Dawson Creek;
 - a pipeline in the Septimus area that is licensed for LVP service;
 - a pipeline that runs from Tourmaline West Doe Creek to 10-26-080-16 W6M tie-in carrying LVP product; and
 - a pipeline from Encana Sunrise 16-36 to 16-26-078-15 W6M tie-in also flowing LVP.
 - the Taylor to Gordondale Expansion which is made up of two laterals – the Sunrise and Dawson Laterals which extend from Taylor to the Dawson Creek Meter Station. These pipelines are licensed for HVP but currently flow LVP. Tie-ins to this line include the Encana Tower Gas Plant to 09-28-081-17 W6M LVP line.
 - the NEBC Expansion which extends from Progress Aitken Creek c-08-I/94-B-16 to the Taylor Tank Farm. The Canbriam tie-in connects to this line at Birch 10-19-088-23 W6M.

- Plateau Pipeline has three tie-in pipelines that connect into the CER regulated Northern System. These include the Encana Tower tie-in, ARC Parkland tie-in and ARC Dawson Creek tie-in. All lines within the Northern system are carrying HVP product.

Pembina Energy Services Inc. and **Pembina NGL Corporation** are company subsidiaries that acquired the former Provident Energy assets. Pembina Energy Services has pipelines that are licensed by the CER; Pembina NGL has pipelines that are licensed by the OGC and Alberta Energy Regulator (AER). The pipelines in the Liquids Gathering System (LGS) that are AER regulated are not included in this Emergency Management Plan (EMP). The pipelines that are CER and OGC regulated are covered by this EMP.

The LGS pipeline licensed to Pembina Energy Services Inc. and regulated by the CER is:

- Taylor to Boundary Lake
(There is a segment of this line that has been de-activated and de-commissioned and is still maintained in this EMP for information purposes)

The LGS pipelines licensed to Pembina NGL and regulated by the OGC are:

- West Stoddart Plant to Younger (Taylor) Extraction Plant.
- ARC Meter Station to YSPL 11-04 Tie-in

The LGS system delivers liquids to the Gordondale Terminal.

The Grande Prairie and Fort St. John Area Field Offices are responsible for the Grande Prairie and Fort St. John operations.

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

The Northern System

The main transmission line for the Northern system, commences at Taylor, BC and extends to Belloy, AB; a distance of 172.4 km. The Northern Pipeline Diversion added in 2014 and the 2016 pipeline relocation results in a total pipeline length of 175.2 km.

There are various locations where the pipeline can be isolated, either remotely or manually. Ten valves are remotely operated from the Sherwood Park Control Centre (SPCC); while the remainder of the valves are manually operated.

Major sites along the pipeline include pump stations and meter stations at the following locations:

Facility	Land Description	Latitude	Longitude
Northern System Taylor Pump Station (CER)			
Northern System Sweetwater Pump Station (CER)			
Northern System Bonanza Pump Station (CER)			
Gordondale Pump Station (AER)			
Doe Creek Pump Station (AER)			
Northern System Spirit River Pump Station (CER)			
Belloy Station (AER)			

The main transmission line is licensed for a MOP of 9930 kPa, but operates between pressures varying from 4500 to 6300 kPa. The flow rate increases at Doe Creek, as more NGL is introduced to the line from LaGlace.

The Pouce Coupé system does not experience constant operations, so it is difficult to gather pressure information. The line is licensed for 9650 kPa, but available data suggests that the maximum pressure reached is 5500 kPa.

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

LGS Pipelines

Pembina operates an integrated pipeline system located in northeast BC and northwestern Alberta, consisting of over 573 kilometres of pipeline. The Liquids Gathering System (LGS) carries condensate liquids and/or high vapour pressure ethane or propane-rich liquids.

The producers that supply product into the LGS are responsible for their product up to and including their custody transfer receipt point meters and pumps located at the receipt points. The LGS is isolated from the receipt points by the producers' meters and valves. Remote Telemetry Units (RTUs) are installed at all the receipt points.

The LGS pipeline that is regulated by the CER operates from Taylor to Boundary Lake. There is a segment of this line that has been de-activated and de-commissioned and is still maintained in this plan for information purposes.

Surface sites along the pipeline include:

Facility	Land Description	Latitude	Longitude
West Beaton River BV / CV			
Bison Road BV			
Golata Creek BV			
Goodlow BV			
Boundary Lake Meter Station ESD			

The LGS pipelines regulated by the OGC are West Stoddart Plant to Taylor Pump Station and the ARC Meter Station to YSPL 11-04 Tie-in.

These pipelines gather liquids from the following receipt points:

Facility	Land Description	Latitude	Longitude
Younger Extraction Facility			
Stoddart Gas Plant (CNRL)			
Mile 73 Truck Terminal			
Gordondale Terminal			

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Surface facilities located along the OGC-regulated portion are:

Facility	Land Description	Latitude	Longitude
CNRL West Stoddart Gas Plant			
Mile 73 Truck Terminal			
North Stoddart BV			
South Stoddart (Airport) BV			
LGS Taylor Pump Station			
Taylor Meter Station (Younger Extraction Facility)			

There are several locations where the main transmission pipeline can be isolated using SCADA. This is accomplished by a combination of remotely controlled block valves and check valves. The check valves are predominantly located on the downstream side of river and stream crossings. There are additional manual block valves located along the main transmission line that provide the capability to isolate the system into shorter segments in the event of an emergency.

1.1 Land Use

The NEBC EPZs are located in a mostly agricultural and forested area with a relatively high level of oil and gas development.

Stakeholders within the NEBC EPZs include residents, businesses, trappers, outfitters, grazing lease holders, Forest Management Agreement (FMA) holders, recreational areas, and other oil and gas operators.

Area Stakeholders	
Municipalities	
<ul style="list-style-type: none"> • Birch Bills County • Clear Hills County • Peace River Regional District 	<ul style="list-style-type: none"> • Saddle Hills County • MD of Spirit River
Urban Centres	
<ul style="list-style-type: none"> • City of Fort St. John • City of Dawson Creek (Adjacent) 	<ul style="list-style-type: none"> • District (Town) of Taylor • Town of Spirit River

Area Stakeholders	
Waterways	
<ul style="list-style-type: none"> • Alces River • Alexander Creek • Beatton River • Bernadet Creek • Bremner Creek • Cameron River • Charlie Lake • Coleman Creek • Deadhorse Creek • Doe Creek • East Cache Creek • East Deadhorse Creek • Eight Mile Creek • Fish Creek • Flat Rock Creek • Ground Birch Creek 	<ul style="list-style-type: none"> • Gundy Creek • Halfway River • Henderson Creek • Howard Creek • Kiskatinaw River • Kobes Creek • Ksituan River • Peace River • Pouce Coupe River • Rudyk Coulee • Saddle (Burnt) River/Creek • Saskatoon Creek • Sergeant Creek • Six Mile Creek • Spirit River
Recreation Areas	
<p>Throughout the mapped area there are a number of seasonal parks, campgrounds, and recreational facilities. These areas of transient usage have a greater number of occupants in the peak months (spring/summer). During the low season (fall/winter/spring) these areas have very low levels of usage. In the event of an incident the time of year should factor into the response</p>	
<ul style="list-style-type: none"> • Beatton Provincial Park • Clinton Memorial Park • Camp Darnell – Girl Guides of Canada • Goodlow Recreation Park • Fort St. John Links Golf Course 	<ul style="list-style-type: none"> • Northland Trail Blazers - Charlie Lake Recreational Area • New Totem Archery Club • Montney Centennial Park • Taylor Landing Provincial Park
Airports	
<ul style="list-style-type: none"> • Fort St. John Airport (Intersects with EPZ) 	
Highways / Main Roads	
<ul style="list-style-type: none"> • Highway 2 (AB) • Highway 49 (AB) • Highway 97 / Alaska Highway 	<ul style="list-style-type: none"> • Highway 719 (AB) • Highway 727 (AB) • Beatton Airport Road • Upper Halfway Road

2.0 TECHNICAL DATA

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

2.1 Pipelines

2.1.1 Northern System – CER Regulated

CER Regulatory Instruments: OC-42, MO-20-97, OPLO-F72-37-98, MO-05-2002, AO-1-OC-42, XO-P123-013-2014, XO-P123-015-2014, OPSO-P123-035-2014, OPSO-P123-009-2015

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	MOP (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pouce Coupé Pipe Line Ltd. – Taylor to Belloy												
	7			7.14	O	HVP	273.1	5.56				900
	7									RC		900
	7			17.76	O	HVP	273.1	4.8		CC		900
	7 6			6.55	O	HVP	273.1	4.8		RC		900
	7 6			12.2	O	HVP	273.1	4.8		CC		900
	6 5			13.23	O	HVP	273.1	4.8		CC		900
	6 5/4			5.97	O	HVP	273.1	4.8		RC		900
	4 3			31.61	O	HVP	273.1	4.8		RC		900
	3			18.12	O	HVP	273.1	4.8		RC		900

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
	3 2			16.06	O	HVP	273.1	4.8		RC		900
	1 2			26.83	O	HVP	273.1	4.8		RC		900
	1			3.38	O	HVP	273.1	4.8		RC		900
	1			14.00	O	HVP	273.1	4.8		RC		900
Northern Diversion												
	3			1.18	O	HVP	273.1	5.56				900
	3			1.17	O	HVP	273.1	5.56				900

The total length of the Pouce Coupé Northern System is 175.2 km

2.1.2 Northern System – OGC Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Plateau Pipeline – Encana Tower Tie-in to CER Northern System Tie in (Route ID 41896)												
24238 - 1	7			8.75	O	HVP LVP	273.1	5.6				900
Plateau Pipeline – ARC Parkland to CER Northern System Tie in												
23692-1	7			0.372	O	HVP	168.3	4.8				500
23692-2	7			0.20	O	HVP	168.3	4.8				500

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Plateau Pipeline – Tourmaline Doe 13-25 Gas Plant to CER Northern System Tie in <i>(This pipeline is owned and operated by Tourmaline and is listed for information purposes only as it ties in to the Plateau Pipeline system)</i>												
24274-1	6			1.07	O	HVP	168.3	4.8				NA
Plateau Pipeline – ARC Dawson Creek 13-7-80-14 W6 Gas Plant to CER Northern System Tie in												
23907-1	6			2.732	O	HVP LVP CO	114.3	4.0				300

2.1.3 Northern System – AER Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pembina Pipeline Corporation – AltaGas Gordondale GP to Gordondale Riser NEB Northern System Tie in												
54549-1	4			5.058	O	HVP	168	4				500

2.1.4 LGS System – OGC Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pembina NGL – Stoddart to Taylor												
12036-3	11			0.04	O	HVP	168.3	4.0				500
12036-1A	10 11			33.871	O	HVP	168.3	4.0		CC		500
7824-1	11			1.041	O	HVP	168.3	4.0				500
7824-2	11			1.166	O	HVP	168.3	4.0				500

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
12036-1B	8 10			18.857	O	HVP	168.3	4.0				500
12036-1C	8			12.257	O	HVP	168.3	4.0				500
12036-2	8			3.457	O	HVP	219.1	4.8				700
Pembina NGL – ARC Parkland – YSPL Lateral												
22863-1	7			14.82	O	NG	323.9	6.4		CC		N/A

This line is contract operated by CNRL. In the event of emergency, CNRL will initiate the response, and then advise Pembina, who will assume control of the response.

2.1.5 LGS System – CER Regulated

CER Regulatory Instruments: Certificate OC-43: Order XO-P-115-04-2011; MO-016-2013 (de-commissioned); MO-014-2013 (de-activated).

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pembina Energy Services Inc. – Taylor to Boundary Lake												
	8 9			14.8	De-activated		219.1	4.8				N/A
	9				De-commissioned		219.1	4.8				N/A
	8			9.74	O	HVP	219.1	4.78				700
	8			12.94	O	HVP	219.1	4.78		RC		700
	8 9			4.41	O	HVP	219.1	4.78				700
	8 9			4.65	O	HVP	219.1	4.78				700
	9			9.59	O	HVP	219.1	4.78		CC		700
	9			14.61	O	HVP	219.1	4.78		RC		700
	9			4.5	O	HVP	219.1	4.78				700

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

2.1.6 Northwest System – CER Regulated

CER Regulatory Instruments: XO-1-69; OPLO-15-2-69; MO-032-2018

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pouce Coupé Pipe Line Ltd. – CNRL 06-09 Battery to 12-08-085-13 W6M Junction Site												
	9			1.6	De-activated		114.3	3.18		CC		N/A

2.1.7 Peace System – OGC Regulated

Plateau Pipe Line Ltd. – NEBC Expansion

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
NEBC Expansion - Progress c-08-I/94-B-16 to Birch 10-19-088-23 W6M												
23892-1	15 16			15.337	O	HVP	323.9	6.4				1100
23916- 1	15			0.73	O	HVP	323.9	6.4				1100
23916- 2	15			20.05	O	HVP	323.9	5.2		CC		1100
23916- 3	13 15			6.12	O	HVP	323.9	6.4		CC		1100
23915-1	15			0.93	O	HVP	323.9	6.4				1100
23915-2	12 15			13.47	O	HVP	323.9	5.2				1100
24287-1	12			2.15	O	HVP LVP	323.9	7.9				1100

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
NEBC Re-Route (To be built by Tourmaline and purchased by Pembina prior to in-service date)												
24506-8	15			0.60	P	HVP LVP	323.9	9.53				1100
24506-9	15			0.60	P	HVP LVP	323.9	9.53				1100
Canbriam Tie-in												
24837-1	14			5.913	O	HVP	168.3	4.8				500
24222 - 1	14			0.67	O	HVP	168.3	4.8				500
24898-8A	14			5.868	O	HVP LVP	168.3	4.8				500
24898-8B	14			4.436	O	HVP LVP	168.3	4.8				500
24898-8C	14			4.738	O	HVP LVP	168.3	4.8				500
20615-1A	13 14			9.567	O	HVP LVP	168.3	4.8		RC		500
20615-1B	13			3.16	O	HVP LVP	168.3	4.8				500
24225-1	13			2.286	O	HVP LVP	168.3	4.8				500
23834-3	13			10.112	O	HVP	168.3	4.8				500
8054-1A	13			1.933	O	HVP LVP	168.3	4.8		RC		500
8054-1B	12 13			0.505	O	HVP LVP	168.3	4.8				500

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
8054-1C	12 13			2.344	O	HVP LVP	168.3	4.8				500
8054-1D	12 13			14.508	O	HVP LVP	168.3	4.8				500
24284-1	12 13			1.13	O	HVP LVP	168.3	4.8				500
NEBC Expansion - Birch 10-19-088-23 W6M to Taylor Tank Farm 11-05-083-17 W6M												
24287-2	12			2.15	O	HVP LVP	323.9	7.9				1100
23914-1	12			13.87	O	HVP	323.9	6.4		CC		1100
23914-2	11 12			14.15	O	HVP	323.9	6.4		CC		1100
23904-1	11			0.40	O	HVP	323.9	6.4				1100
23904-2	11			11.54	O	HVP	323.9	5.2				1100
23904-3	11			1.63	O	HVP	323.9	6.4				1100

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
23904-4A	10 11			6.77	O	HVP	323.9	5.2				1100
23904-4B	10			0.61	O	HVP	323.9	5.2		CC		1100
23904-4C	10			11.9	O	HVP	323.9	5.2				1100
23922-1A	8 10			8.87	O	HVP	323.9	5.2				1100
23922-1B	8 10			1.9	O	HVP	323.9	5.2		CC		1100
23922-1C	8			12.05	O	HVP	323.9	5.2				1100
23922-2	8			2.71	O	HVP	323.9	6.4				1100
23922-3	7 8			4.48	O	HVP	323.9	5.2				1100

2.1.8 Peace System – OGC Regulated

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

Plateau Pipe Line Ltd. – Taylor to Dawson Meter Station

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Taylor to 08-08-081-16 W6M												
1116-2	7 8			0.321	O	CO	219.1	8.2				Adopted 700
1116-1	7 8			0.93	O	CO	219.1	8.2				Adopted 700
7261-1	7 8			2.423	O	HVP	219.1	5.6				700
7261-8	7			0.02	O	HVP	219.1	8.2				700
7261-9	7			0.02	O	HVP	219.1	8.2				700
7261-2	7			2.88	O	HVP	219.1	5.6				700
7261-3	7			1.50	O	HVP	219.1	8.2		RC		700
7261-5A	7			4.002	O	HVP	219.1	5.6		RC		700
7261-5B	7			15.552	O	HVP	219.1	5.6		RC		700
Septimus Battery 08-02 Tie-in												
23727-1	---			3.72	O	LVP	168.3	4.8				N/A
23728-1	7			18.29	O	LVP	168.3	4.8				N/A
<i>Pembina shares ROW with CNRL 16" NG Pipeline.</i>												
08-08-081-16 W6M to 04-02-081-16 W6M												
7261-5C	6 7			4.546	O	HVP	219.1	5.6		RC		700

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
ARC Parkland 03-09-081-16 W6M Tie-in												
23073 - 1	7			0.357	O	CO	219.1	4.8				NA
23692 - 3	7			0.180	O	HVP LVP CO	219.1	6.35				NA
04-02-081-16 W6M to Sweetwater 09-02-080-16 W6M												
7261-6	6 7			0.10	O	HVP	219.1	5.6		RC		700
7261-7A	6 7			0.719	O	HVP	219.1	5.6				700
7261-7B	5 6			8.214	O	HVP	219.1	5.6				700
Tourmaline West Doe Creek 13-25 LVP Tie-in												
23127 - 1	6			1.08	O	LVP	168.3	4.8				N/A
Sweetwater 09-02-080-16 W6M Dawson Meter Station												
7261-7C	5 6			18.016	O	HVP	219.1	5.6				700
7261-10	5			0.03	O	HVP	219.1	8.2				700

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Encana Sunrise 16-36 Tie-in (previously known as Cutbank Dawson)												
7261-7C	5 6			18.016	O	HVP	219.1	5.6				700
7261-10	5			0.03	O	HVP	219.1	8.2				700

System is currently carrying crude/condensate – maintained as HVP in ERP.

2.1.9 Peace System – OGC Regulated

Plateau Pipe Line Ltd. – Peace System Laterals

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Sunrise Lateral (Taylor to Tower Tie-in 16-28-081-17 W6M)												
23859-1A	7 8			8.147	O	HVP	323.9	6.4		RC		1100
23859-1B	7			4.267	O	HVP	323.9	6.4		CC		1100
23859-1C	7			3.800	O	HVP	323.9	6.4		CC		1100
Encana Tower LVP Tie-in												
24238 - 2	7			8.962	O	HVP LVP	168.3	4.8				500
Sunrise Lateral (Tower Tie-in 16-28-081-17 W6M to Plateau Pump Station)												

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
23859 – 1D	7			11.086	O	HVP	323.9	6.4		CC		1100
23859 – 1E	6 7			6.990	O	HVP	323.9	6.4		RC		1100
23859 - 2	7			3.01	O	HVP	323.9	6.4		CC		1100
23859 - 3	7			2.78	O	HVP	219.1	6.4		CC		700
23859 - 4	7			1.49	O	HVP	219.1	6.4		CC		700
Dawson Lateral												
24259-1A	5 6			14.893	O	HVP LVP CO	323.9	6.4		CC		1100
24259-1B	5			9.967	O	HVP LVP CO	323.9	6.4		CC		1100

Peace System Laterals are currently flowing LVP - Maintained as HVP in the ERP.

2.1.10 Pouce Coupé System (Interconnects with Peace System) – CER Regulated

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

CER Regulatory Instruments: XO-1-89; OPLO-P123-5-89

Pouce Coupé Pipe Line Ltd. - Pouce Coupé System -Dawson Creek to Pouce Coupé Battery

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
	5			7.86	O	HVP	219.1	6.35		CC		700
	5			1.24	O	HVP	219.1	7.11		RC		700
	4 5			7.32	O	HVP	219.1	6.35		CC		700
	4			9.72	O	HVP	219.1	4.78		CC		700

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

CER Regulatory Instruments: XO-P123-013-2016

Pouce Coupé Pipe Line Ltd. - Pouce Coupé Lateral - Dawson Meter Station to 07-20 Pouce Coupé Riser

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	Enviro Crossing	End Valve	EPZ (m)
Pouce Coupé Lateral												
	5			7.936	O	LVP	323.9 0	6.40		CC		n/a
	5			3.68	O	LVP	323.9 0	6.40		RC		n/a
	4 5			14.64	O	LVP	323.9 0	6.40		RC		n/a

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NEBC HVP PIPELINE SYSTEMS STAKEHOLDERS AND MAPS

Pembina conducts regular public involvement efforts to ensure stakeholders are provided with information pertaining to the operations in their area, potential hazards, product characteristics, emergency contact numbers, and the appropriate response actions for them to take in an emergency situation.

Confidential Listings

Resident/Business listings for surface developments located within the EPZ for the HVP Pipeline System are separated by map area. Only select copies of the ERP will contain the surface development listings as this data is confidential and is to be stored in a secure location.

Surface development listings are sorted by geographical location from south to north (i.e., meridian, township, range, section, letter ID).

Example

W4	53	26	19	A
W4	53	26	20	A

Surface developments within the EPZ with no letters or numbers on the map are located on inset maps and are sorted geographically and then numerically from smallest to largest.

Example

W4	53	26	16	WL1
W4	53	26	20	WL2
W4	53	26	17	WL3

Note: In some cases, due to the number of maps and/or records for surface developments, this information may be located in a separate binder.

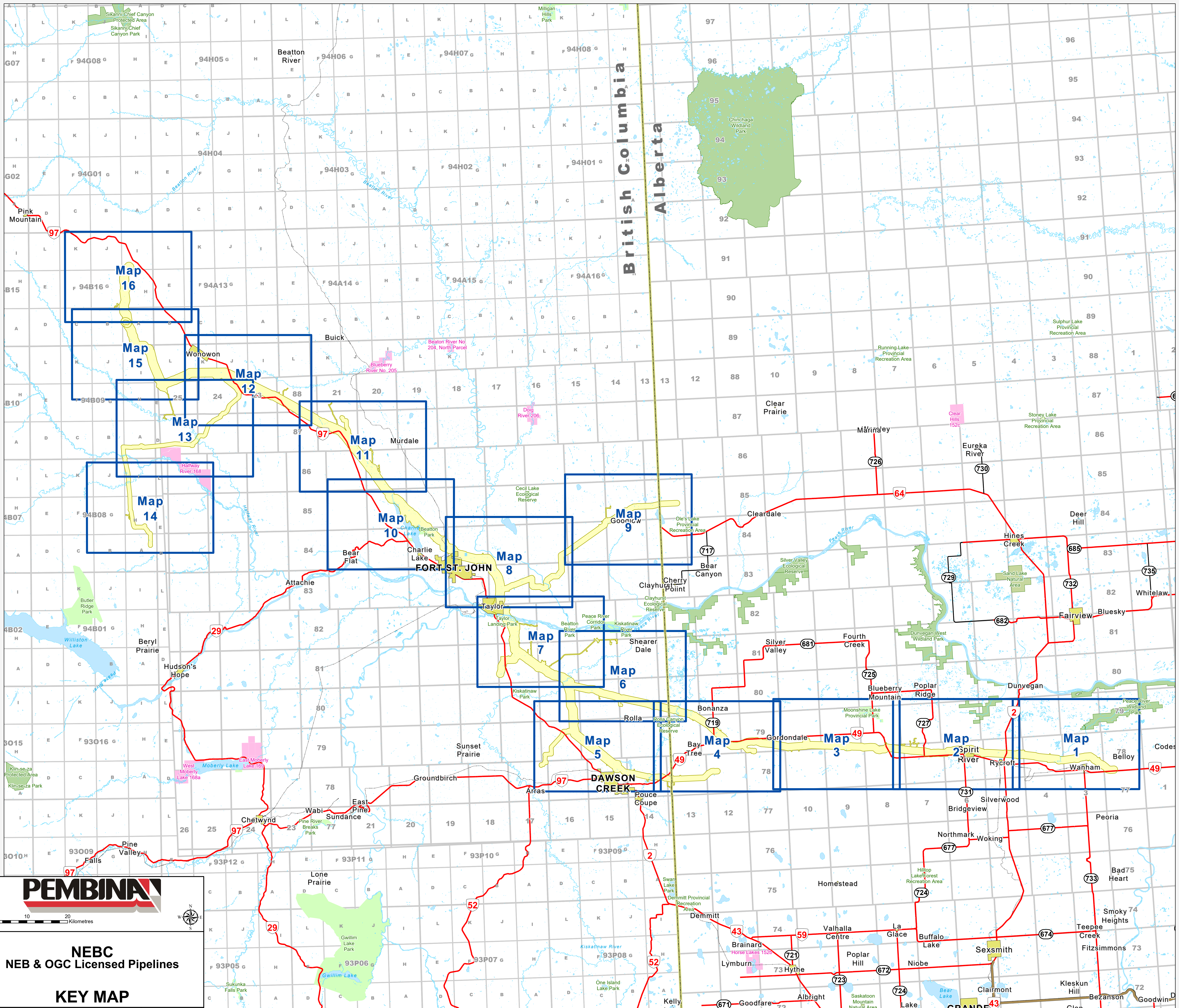
Note: All contact information for Stakeholders has been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

Maps and Diagrams

Maps for the Area/District may include separate illustrations for HVP and LVP pipelines as well as any required supplemental mapping. Maps are sorted from east to west and identify all District/Area specific pipeline EPZs.

Additional mapping resources include Pembina's online mapping system, The Map and detailed Control Point map books, maintained separate from this ERP.

Note: Area Maps have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.



British Columbia
Alberta



NEBC
NEB & OGC Licensed Pipelines

KEY MAP

PREPARED BY: TITAN MAPPING SOLUTIONS LTD. SCALE: 1:300,000
 DRAFTING: MM DATE: REV.1, MARCH 26, 2020
 PROJECT ID: TM0083

NEBC LVP PIPELINE SYSTEMS

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1.0 SYSTEM DESCRIPTION

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Plateau Pipe Line Ltd., a subsidiary of Pembina Pipeline Corporation, operates an integrated pipeline system located in northeast and central British Columbia (BC), consisting of approximately 720 km of pipeline. The NEBC Liquid LVP Pipeline System consists of several systems that carry LVP liquids in north eastern BC including the NEBC Expansion, BC Light, Boundary and Blueberry systems.

The NEBC Expansion System consists of 3 active line segments totaling 219 km of pipeline. The system carries propane and condensate from Progress c-8-l and Altares B-72 to Taylor Tank Farm.

The BC Light System consists of 3 active line segments totaling 40.35 km of pipeline. The system carries sweet crude oil from the North Pine Booster Station to the Taylor Tank Farm. As well, a 0.3 km segment carries Condensate (C5+) from Newalta 15-05 to the Taylor Tank Farm.

The Boundary System consists of 14 abandoned line segments and 11 discontinued segments of pipeline.

The Blueberry System consists of 7 active line segments totaling 101.2 km of pipeline. The system carries sweet crude oil from the Blueberry Battery, Inga 06-19 Battery, Stoddart 03-28 Battery, and the Stoddart 14-34 Battery to the Charlie Lake Meter Station. As well, a 3.99 km segment connects the West Eagle Battery to the BC Light System. In addition to the active segments, there are 3 discontinued segments, 5 abandoned segments and 1 removed segment.

The producers that supply product into the NEBC System are responsible for their product up to and including their custody transfer receipt point meters and pumps located at the receipt points. The NEBC system is isolated from the receipt points by the producers' meters and valves. Remote Telemetry Units (RTUs) are installed at all the receipt points.

Pembina plants, terminals, or storage sites along the NEBC LVP System within the Deep Basin Fort St. John District include:

Facility	Land Description	Latitude	Longitude
Taylor Tank Farm			
Boundary Lake Pump Station			
Blueberry Pump Station			
North Pine Booster Station			
Charlie Lake Meter Station			
Stoddart Meter Station			
Buick Creek Battery LACT			
Rigel Junction Battery LACT			

Note: Names, phone numbers, and addresses have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of private or confidential information.

Facility	Land Description	Latitude	Longitude
Rigel 13-15 Battery LACT			
Muskrat 14-12 Battery LACT			
Oak 05-28 Battery LACT			
Boundary Lake Battery0 6-6 LACT			
Boundary Lake Battery 15-26 LACT			
Boundary Lake Battery 16-12 LACT			
Boundary Lake Battery 08-11 LACT			
Boundary Lake Battery 01-14 LACT			
Boundary Lake Battery 06-9 LACT			
Boundary Lake Battery 15-20 LACT			
Boundary Lake Battery 08-23 LACT			
Boundary Lake Battery 14-5 LACT			
Boundary Lake Battery 08-2 LACT			
Boundary Lake Battery 15-26 LACT			
Blueberry Battery LACT			
Inga 06-19 Battery LACT			
Inga Battery LACT			
Silverberry Battery LACT			
Stoddart 03-28 Battery LACT			
Stoddart 14-34 Battery LACT			
West Eagle Battery LACT			
Plateau Pump Station			
Parkland Plant LACT			
Sunrise Plant			
Dawson Creek Meter Station			
Septimus Battery LACT			
Doe Creek Terminal			

1.1 Land Use

The northern extent of the NEBC Expansion system from Progress to the Birch Terminal is predominantly forested with the primary use being industrial and recreational. From the Birch Terminal to the Taylor Tank Farm the surrounding land use becomes predominantly Agricultural Land Reserves that is primarily purposed for agricultural use.

The BC Light system from the Blueberry Battery to the Taylor Tank Farm travels mainly through Agricultural Land Reserves that is primarily purposed for agricultural use.

The eastern extent of Boundary system from the Boundary 08-11 Battery to the Boundary Lake Pump Station is predominantly forested with the primary use being industrial and recreational. From the Boundary Lake Pump Station to the Taylor Tank Farm the surrounding land use becomes predominantly Agricultural Land Reserves that is primarily purposed for agricultural use.

The northern extent of the Blueberry system from the Blueberry Battery to the Blueberry Pump Station is predominantly forested with the primary use being industrial and recreational. From the Blueberry Pump Station to the Charlie Lake Meter Station the surrounding land use becomes predominantly Agricultural Land Reserves that is primarily purposed for agricultural use.

Area Stakeholders	
Municipalities	
<ul style="list-style-type: none"> • Birch Hills County • City of Fort St. John • Clear Hills County • District of Taylor 	<ul style="list-style-type: none"> • MD of Spirit River • Peace River Regional District • Saddle Hills County
Waterways	
<ul style="list-style-type: none"> • East Deadhorse Creek • Deadhorse Creek • Gundy Creek • Bernadet Creek • Alexander Creek • Mile 94 Creek • Kobes Creek • Inga Creek • East Cache Creek • Alexander Creek • Stoddart Creek • Lush Creek • Beatton River • Flatrock Creek • Boundary Creek • Little Beaverdam Creek 	<ul style="list-style-type: none"> • Sturgeon River • Blueberry River • Cameron River • Halfway River • Cromie Creek • Garyling Creek • Monteith Creek • Allen Creek • Canter Creek • Spruce Tea Creek • Red Creek • Montey Creek • Pierre Creek • Pasture Creek • Alces River • Milligan Creek

Area Stakeholders	
Railways	
<ul style="list-style-type: none"> Canadian National (CN) Rail 	<ul style="list-style-type: none"> Canadian Pacific (CP) Rail
Highways	
<ul style="list-style-type: none"> Highway 97 	<ul style="list-style-type: none"> Highway 64

1.1.1 Emergency Planning Zones (EPZ)

Pembina engaged consultants to assess and recommend an EPZ for its sweet crude oil pipeline corridors based on the radiant heat of the initial ignition of a pool of crude oil resulting from a catastrophic release. To calculate the EPZ several assumptions were used including, but not limited to: volume released, size of pool, properties of the product and radiant heat load. Based on these calculations, an EPZ of 50 meters on both sides of the pipeline centerline was adopted.

During an emergency, the EPZ is defined initially on the modeled radius related to the pipeline. Plume tracking results may be used to re-define the area impacted by the incident and to reassign resources to enable Pembina personnel to respond appropriately.

1.1.2 High Consequence Areas

Pembina has identified high consequence areas (HCAs) along the system. These HCAs are defined as having significant biophysical or socio-economic value. In the event of a release, priority will be given to mitigating or eliminating potential impacts to the HCAs.

The table below provides a summary of the HCA selection criteria.

Description	Distance from Centerline of Pipe (m)	Definition for Area of Interest
Major Rivers and Lakes (Watercourse Upstream)	500	Database obtained from Government of Alberta and Alberta Environment and Parks (AEP) - Fish and Wildlife Management Information System (FWMIS). Database obtained from Government of British Columbia – Ministry of Forests, Lands, Natural Resource Operations and Rural Development – GeoBC.
Rivers and Streams (Watercourse Upstream)	500	Database obtained from Government of Alberta and Alberta Environment and Parks (AEP) - Fish and Wildlife Management Information System (FWMIS). Database obtained from Government of British Columbia – Ministry of Environment and Climate Change Strategy – Knowledge Management.

Description	Distance from Centerline of Pipe (m)	Definition for Area of Interest
Major Rivers and Lakes (Watercourse Downstream)	2000	Database obtained from Government of Alberta and Alberta Environment and Parks (AEP) - Fish and Wildlife Management Information System (FWMIS). Database obtained from Government of British Columbia – Ministry of Forests, Lands, Natural Resource Operations and Rural Development – GeoBC.
Rivers and Streams (Watercourse Downstream)	2000	Database obtained from Government of Alberta and Alberta Environment and Parks (AEP) - Fish and Wildlife Management Information System (FWMIS). Database obtained from Government of British Columbia – Ministry of Environment and Climate Change Strategy – Knowledge Management.
Biodiversity Areas	500	Data consists of a network of sites that provide essential habitat for bird populations within the country. Database obtained from Important Bird and Biodiversity Areas in Canada (IBA Canada).
Registered Fur Management Areas	500	Trappers and the licenses that are within the distance from centerline of pipeline will be selected. Database obtained from Altalis Limited (partnered with Government of Alberta).
Trapline Area	500	Trappers and its licenses that are within the distance from centerline of pipeline will be selected. Database obtained from Government of British Columbia – Ministry of Forests, Lands, Natural Resource Operations and Rural Development – Fish, Wildlife and Habitat Management.
Critical Habitats	500	Species At Risk Act (SARA) describes Critical Habitat (CH) as the habitat that is necessary for the survival or recovery of a listed wildlife species (schedule 1). Database obtained from Government of Canada.
Environmentally Significant Areas	2000	Known as ESA, the database is obtained from Government of Alberta.
CDC Species and Ecosystems at Risk	2000	Data consists of status rank for species and ecosystems in British Columbia. Database obtained from Government of British Columbia – Conservation Data Centre (CDC) – Ministry of Environment and Climate Change Strategy – Ecosystems.

Description	Distance from Centerline of Pipe (m)	Definition for Area of Interest
Groundwater Wells	2000	<p>Data contains various types of wells (domestic, industrial, observation, investigation, monitoring, municipal, stock, dewatering, and unknown wells). Database obtained from Government of Alberta.</p> <p>Data contains various types of wells (domestic, industrial, observation, investigation, monitoring, municipal, stock, dewatering, and unknown wells). Database obtained from Government of British Columbia – Ministry of Environment and Climate Change Strategy – Water Protection and Sustainability.</p>
Hospitals	2000	<p>Hospital locations across the province of Alberta, digitized in April 2019.**</p> <p>Data consists of BC Health Authority owned or operated hospitals with Emergency Departments and Acute Care beds. Database obtained from Government of British Columbia – Ministry of Health – Provincial Health Services Authority.</p>
Schools	2000	<p>Occupied or operational school locations across the province of Alberta, digitized in April 2019.**</p> <p>Occupied or operation school locations across the province of British Columbia. Database obtained from Government of Canada.</p>
Pipeline Facilities	2000	<p>Facility locations that are specific to the pipeline company and operations (pump stations, pipeline terminals and junctions).</p>
National Historic Sites	2000	<p>Data contains complete list of historic sites within Canada. Database obtained from Government of Canada.</p>
Municipal Boundaries	2000	<p>Highly populated areas within the province of Alberta (cities, towns, district, and counties).</p> <p>Highly populated areas within the province of British Columbia (cities, towns, district, and counties). Database obtained from Government of British Columbia – Ministry of Municipal Affairs and Housing – Governance and Structure and Ministry of Justice – Civil Policy and Legislation Office.</p>

Description	Distance from Centerline of Pipe (m)	Definition for Area of Interest
First Nations	1000	Highlights the legal boundaries for any of the groups of indigenous peoples of Canada. Database obtained from Government of Canada, Government of Alberta and Government of British Columbia. Ministry of Indigenous Relations and Reconciliation – Intergovernmental and Community Relations and Ministry of Forests, Lands, Natural Resource Operations and Rural Development – GeoBC.
National Parks	500	Displays areas that are National Parks (NPS) and National Park Reserves (NPRs). Database obtained from Government of Canada – Parks Canada.
Provincial Parks	500	Data consists of parks that preserve natural heritage, while supporting outdoor recreation, heritage tourism, and natural heritage appreciation activities. Alberta Database obtained from Altalis Limited (partnered with Government of Alberta). BC Database obtained from Government of British Columbia – Ministry of Environment and Climate Change Strategy – Parks Planning and Management.
Grazing Leases	500	Database obtained from Government of Alberta.
Range Tenure	500	Data consists of grazing and hay cutting license and permits. Database obtained from Government of British Columbia – Ministry of Forests, Lands, Natural Resource Operations and Rural Development – Range (Range, Invasive Plants and Ecosystem Restoration).

** Locations are mapped on available information. Datasets may be incomplete.

1.1.3 Control Points

Control Points are a set of predeveloped response locations and strategies designed to assist the Incident Management Team during the initial phases of a response. The control point data sheets detail the resources and considerations required to implement the suggested response strategy. Control Point Data Sheets are located in the appropriate Control Point Manual or on Pembina's intranet site, The Pipeline.

For additional strategies and process that should be considered please see the Corporate Spill Contingency Plan located on Pembina's intranet site, The Pipeline.

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2.0 TECHNICAL DATA

2.1 Pipeline Data

2.1.1 NEBC Expansion System – OGC Regulated

The NEBC Expansion is licensed for both HVP and LVP service. Details for this system are located in the HVP portion of this manual.

2.1.2 BC Light System – OGC Regulated

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 12 Mainline Loop d-94-A (Section 1)										
81357-1	16			4.67	DC	CO	304.8	5.16		0
NPS 12 Rigel Pump Station to North Pine Booster Station										
81361-1	9/14/16			31.53	O	CO	304.8	5.16		50
NPS 4 Rigel 7-31										
87343-3	17			0.50	DC	CO	114.3	4.0		0
87274-1	17			9.27	DC	CO	114.3	3.96		0
87343-2	17			3.16	DC	CO	114.3	4.0		0
NPS 4 Rigel 4-28 to 2-31										
87343-1	17			7.05	DC	CO	114.3	4.0		0
NPS 4 Buick Creek to Rigel										
86638-1	15/16			24.29	O	CO	114.3	3.20		50
NPS 3 Rigel 13-15										
86867-14	16			0.60	DC	CO				0
NPS 3 Muskrat 14-12										
86754-1	14			4.05	O	CO	88.90	3.20		50
NPS 3 Oak 5-28										
86921-1	14			0.29	O	CO	88.90	3.18		50
NPS 8 North Pine Booster Station to Charlie Lake										
89886-1	9			11.51	O	CO	219.1	6.40		50

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
89886-2	9			0.88	O	CO	219.1	6.40		50
NPS 8 Milligan to Rigel										
81071-8	19/20			6.42	DC	CO	219.1	4.80		0
81071-13	19			0.50	DC	CO	219.1	5.60		0
81071-12	17/18/19			57.26	DC	CO	219.1	4.8		0
NPS 8 Charlie Lake to Taylor										
81103-4	9			7.70	O	CO	219.1	5.15		50
87793-1	9			0.61	O	CO	219.1	4.80		50
81103-6	9			7.03	O	CO	219.1	5.15		50
81103-8	9			1.06	O	CO	219.1	5.15		50
90869-1	9			0.60	O	CO	219.1	4.0		50
81071-10	9/10			12.27	O	CO	219.1	4.80		50
NPS 8 BC Light Mainline (Discontinued Section 1)										
81071-9	9/14/16			45.52	A	CO	219.1	4.8		0
NPS 8 Blueberry Mainline (Discontinued Section)										
81103-7	9/10			12.70	DC	CO	219.1	5.15		0
NPS 4 d-65-H Nancy										
81812-1	18			4.02	DC	CO	114.3	3.18		0
NPS 4 Wildmint d-35-A (2 inch liner)										
81127-1	19			0.15	DC	CO	114.3	0		0
NPS 4 Weasel d-35-B (2 inch liner)										
81568-1	19			5.91	A	CO	88.9	0		0
NPS 12 North Pine Booster Stn to 10-27 (Discontinued)										
81361-2	9			6.29	DC	CO	323.9	5.16		0
NPS 4 Beaton River J-Battery to Milligan										
81071-3	20			5.20	DC	CO	114.3	3.18		0
81071-4	19/20			0.98	DC	CO	114.3	3.18		0
81071-6	19/20			1.30	DC	CO	114.3	0		0

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PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 4 Beatton River J-Battery Lateral										
81071-2	20			0.09	DC	CO	114.3	3.18		0
NPS 4 1946-1										
81946-1	9			1.19	DC	CO	114.3	3.18		0
NPS 12 Mainline Loop d-94-A (Section 2)										
81357-1	16/17			4.67	DC	CO	304.8	5.16		0
NPS 8 Milligan d-85-G										
81071-5	20			0.95	A	CO	219.1	3.18		0
NPS 4 Eagle 08-05										
82736-1	9			1.90	A	CO	114.3	3.96		0
NPS 4 West Peejay d-87-H										
81302-2	18			1.67	A	CO	114.3	0		0
NPS 8 Milligan d-74-G										
81071-7	20			1.3	A	CO	219.1	0		0
NPS 4 West Peejay d-95-H										
81302-1	18			5.88	A	CO	114.3	0		0
NPS 8 BC Light Mainline (Discontinued)										
81071-9	9/14/16			45.52	A	CO	219.1	4.80		0
NPS 4 Milligan d-20-H										
81181-1	19			0.81	DC	CO	114.3	0		0
NPS 4 1871-1										
81871-1	18			0.49	DC	CO	114.3	3.18		0
NPS 2 1126-4										
81126-4	18			0.12	DC	CO	63.50	0		0
NPS 4 1126-2										
81126-2	18			0.27	DC	CO	114.3	0		0

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 4 1126-1										
81126-1	18			0.61	DC	CO	114.3	0		0
NPS 4 1160-1										
81160-1	19			0.36	DC	CO	114.3	0		0
NPS 4 1326-1										
81326-1	19			1.22	DC	CO	114.3	0		0
NPS 4 6638-2										
86638-2	15			0.29	O	CO	114.3	4.80		50
NPS 4 6638-3										
86638-3	15			0.31	O	CO	114.3	4.80		50
NPS 4 Newalta 15-05 to Taylor Tank Farm										
91061-1	10			0.29	O	CO	114.3	4.80		50
NPS 2 2589-001										
82589-1	9			1.30	A	NG	60.30	3.91		0

2.1.3 Boundary System – OGC Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 6 Main Gathering Loop										
724051-6	11/12			3.66	O	CO	168.3	0		50
NPS 4 Boundary Lake 8-11 to 6-6										
81108-7	12			2.9	DC	CO	114.3	0		0
NPS 6 Boundary Lake 15-26										
81085-5	12			6.57	DC	CO	168.3	0		0
NPS 4 Boundary 16-12										
81085-1	12			2.33	DC	CO	114.3	0		0
NPS 6 Boundary Lake Mainline										
81073-1	11			0.91	DC	CO	168.3	4.80		0
81073-4	11			0.93	DC	CO	168.3	5.60		0

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
81073-3	10/11			37.33	DC	CO	168.3	4.80		0
NPS 4 Boundary Lake 15-26 to 8-2										
94764-1	12			2.38	DC	CO	114.3	3.20		0
NPS 4 1138-4										
724052-4	12			2.29	DC	CO	114.3	0		0
NPS 4 1108-1										
81108-1	12			1.61	DC	CO	114.3	0		0
NPS 4 1085-3										
81085-3	12			1.26	DC	CO	114.3	0		0
NPS 6 1085-4										
81085-4	12			17.59	DC	CO	168.3	0		0
NPS 2 Boundary Lake 8-23										
Unlicensed	12			0.06	DC	CO				0
NPS 4 Boundary Lake 08-02										
Unlicensed	12			0.44	DC	CO				0
NPS 4 Boundary Lake 14-17										
724052-3	12			2.44	DC	CO	114.3	0		0
NPS 4 Boundary Lake 12-08										
81108-5	12			0.4	DC	CO	114.3	0		0
NPS 4 Boundary Lake 16-11										
81108-3	12			1.29	DC	CO	114.3	0		0
NPS 4 Boundary Lake 12-05										
81108-4	12			0.81	DC	CO	114.3	0		0
NPS 3 Boundary Lake NGL										
81707-1	10/11/12			39.19	A	HV	88.9	3.18		0
NPS 6 Boundary Lake Mainline - Alces River Xing										
81073-2	11/12			0.95	DC	CO	168.3	4.80		0

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 3 Boundary Lake NGL - Alces River Crossing										
81707-3	11/12			0.05	A	HV	88.90	3.20		0
NPS 6 Boundary Lake NGL										
81267-1	12			3.35	DC	LV	168.3	4.78		0
NPS 3 Boundary Lake NGL - Beaton River Crossing										
81707-2	10			0.46	A	HV	88.90	6.35		0
NPS 4 Boundary Lake 16-27										
81108-6	12			1.21	A	CO	114.3	0		0

2.1.4 Boundary System – AER Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 4 Boundary 8-11 to 12-8										
27150-1	13			13.8	DC	CO	114.3	3.20		0
7622-3	13			4.46	DC	CO	114.3	4.80		0

2.1.5 Boundary System – CER Regulated

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 4 Boundary 8-11 to 12-8										
80042-1	12/13			0.25	O	CO	114.3	3.20		50
280335-1	12/13			1.60	DC	CO	114.3	3.20		0

2.1.6 Blueberry System – OGC Regulated

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

PL License Segment	Map #	Start	To	Length (km)	Status	Sub	OD (mm)	Wall (mm)	M.O.P (kPa)	EPZ (m)
NPS 4 Eagle 02-01										
82536-1	9			3.99	O	CO	114.3	5.56		50
NPS 4 Blueberry c-29-K to Birch										
81877-1	2			0.70	O	CO	114.3	4.78		50
83210-1	2/3			3.67	O	CO	114.3	3.96		50
83210-2	2/3			10.5	O	CO	114.3	3.18		50
NPS 3 Stoddart 14-34 to 13-34 (2 inch liner)										
82838-1	8			0.65	O	CO	88.9	3.96		50
NPS 3 Stoddart 14-26 to 13-26 (2.5 inch liner)										
83333-4	8			0.64	DC	LV/CO	88.9	3.91		0
NPS 6 Inga 6-19 to Birch										
81407-1	3			2.63	O	CO	168.3	0		50
NPS 8 Birch to Charlie Lake										
81103-2	3/7/8/9			58.59	O	CO	219.1	5.15		50
NPS 4 Silverberry 16-7 to 16-32										
91661-1	7			10.16	O	CO	114.3	4		50
NPS 6 Silverberry 16-32 to 7-30										
87004-1	7			3.87	O	CO	168.3	4.0		50
NPS 4 West Stoddart 3-28 to 9-20										
87357-5	7			0.98	O	NG/CO	114.3	3.2		50
NPS 8 Taylor Tank Farm to PGE Loading Rack										
81086-1	10			4.17	DC	CO	219.0	0		0
NPS 4 1086-2										
81086-2	10			0.78	DC	CO	114.3	0		0
NPS 4 1085-2										
81085-2	12			1.76	DC	CO	114.3	0		0
NPS 2 Taylor Tank Farm to McMahon Plant										
81281-1	10			2.01	DC	NG	60.3	0		0

2.2 Valve Listing

2.2.1 NEBC Expansion System

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

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2.2.2 BC Light System

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

2.2.3 Boundary System

Note: Locations of surface installments, including valves and maximum operating pressures have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

2.2.4 Blueberry System

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NEBC LVP PIPELINE SYSTEMS STAKEHOLDERS AND MAPS

Pembina conducts regular public involvement efforts to ensure stakeholders are provided with information pertaining to the operations in their area, potential hazards, product characteristics, emergency contact numbers, and the appropriate response actions for them to take in an emergency situation.

Confidential Listings

Stakeholders located within the EPZ for the LVP Pipeline System are separated by map area.

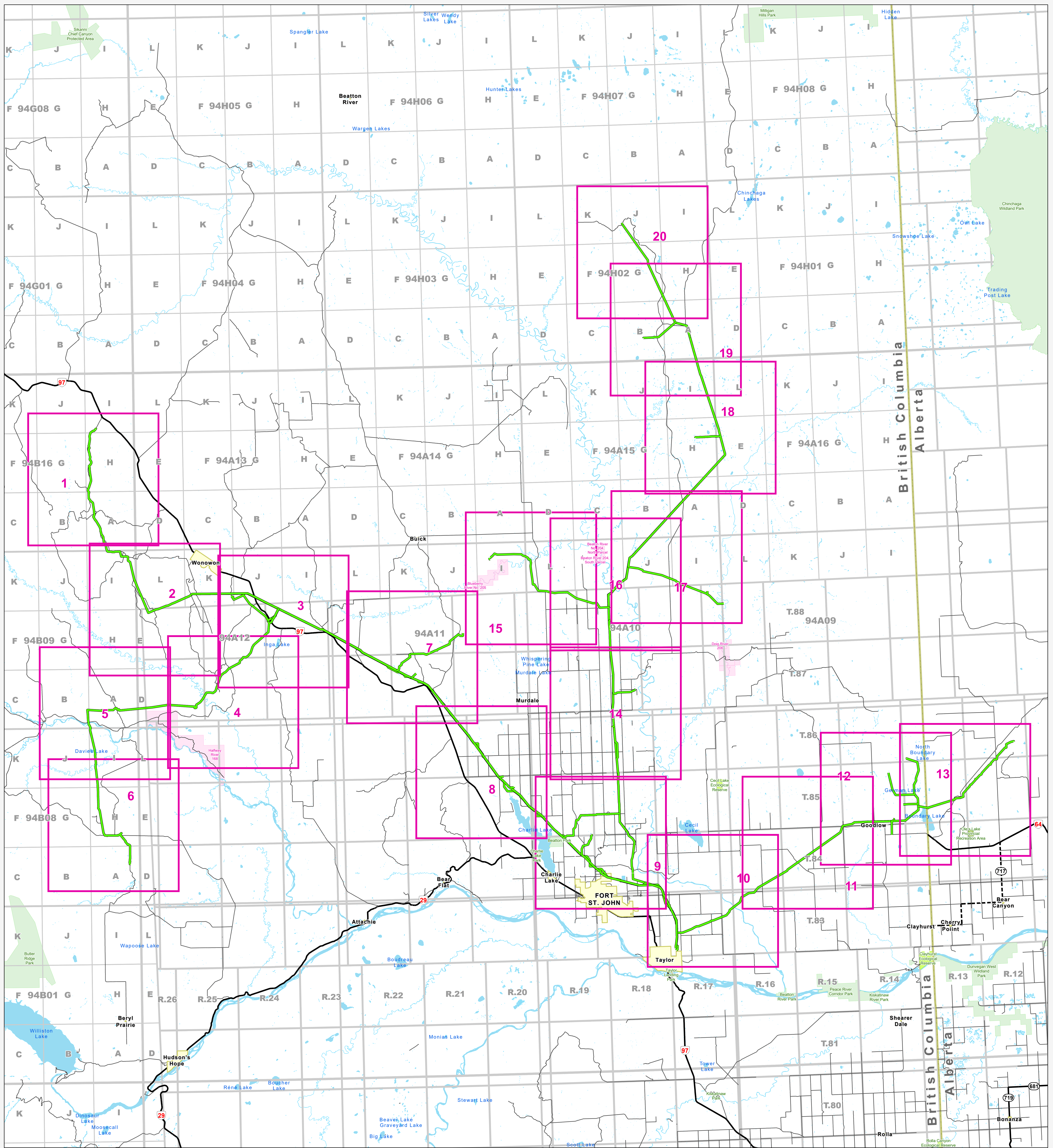
Maps and Diagrams

Maps for the Deep Basin District may include separate illustrations for HVP and LVP pipelines as well as any required supplemental mapping.

Additional mapping resources include Pembina's online mapping system, The Map and detailed Control Point map books, maintained separate from this plan.

Note: All contact information for Stakeholders and Area Maps have been removed from the publicly posted version of the Emergency Response Plan (ERP) for the protection of Private or Confidential information.

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Notes and Comments

- NEBC Pipeline System
- Divided Highway
- Gravel Highway
- Paved Highway
- Local Road
- Waterbody
- First Nation Reserve
- City/Town
- Park
- Ecological Reserve
- Provincial Recreation Area
- Provincial Boundary

Map Use Directions

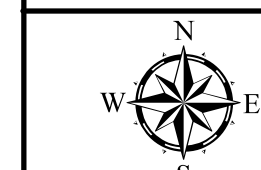
- This map is intended to provide the location of High Consequence Areas (HCA's) within the HCA assessment zone and can be correlated with the table provided in the LVP System Specific Details Appendix of the Plan
 - The HCA's are represented as line data to outline the perimeter of an area that has been identified as a sensitive receptor within the HCA assessment zone
 - The map also provides Control Point (CP) information in the event of a release of product to a waterbody, the control points may be located outside of the HCA assessment zone. The control point labels can be correlated to the control point data sheets provided in the LVP System Specific Details Appendix of the Plan
 - The HCA assessment zone is represented by a 2,000 metre buffer from the center line of the pipeline
 - HCA boundaries are only identified within the HCA assessment zone. Some HCA's such as provincial parks, may extend outside of the HCA assessment zone. In these cases, the HCA boundaries are defined as the same as the HCA assessment zone boundary
 - Receptors may be environmental, socio-economic, or archeo-cultural and can be correlated to the table provided in the LVP System Specific Details Appendix of the Plan
 - The table in the LVP System Specific Details Appendix provides a description of the HCA, applicable contact information, latitude and longitudinal information, and land area coverage within the HCA assessment zone
- Map Data Sources**
- Pembina Pipeline - equipment, pipeline, valve data for Northeast BC (British Columbia) Pipeline System
 - Government of Canada - major rivers and lakes, national highways, national parks, historic sites, critical habitat, bird and biodiversity areas
 - Government of British Columbia (DataBC and GeoBC) - wells, dams, lakes, rivers, streams, hospitals, schools, provincial highways, roads, municipal districts, crown reserve, protected area, first nation, Indian reserve, traplines, provincial parks, CDC species and ecosystems at risk, ecological reserve, wildlife management units, range tenure, recreation area, wildlife habitat area, oil and gas facilities
 - WCCS - control points and equipment locations retrieved in 2019
- Disclaimer**
- The information contained herein is provided by numerous third-party materials that are subject to change without prior notification. Although every attempt has been made by SWAT Consulting Inc. to ensure the accuracy of this information, errors can occur and it should be used for reference only. The creator of this map cannot guarantee complete accuracy of the information provided, hence, the user assumes all risks associated with its use.

SCALE: 1:200,000

0 5 10 15 20 25 30 Kilometres

Coordinate System: NAD 1983 Zone 10

Paper Size: 34.00 x 44.00 Inches



Project No.: TM0225
Prepared By: Titan Mapping Solutions Ltd.
Drafting By: MH



Figure No.

Date

KEY MAP

March 10, 2020

Figure No.

**Northeast BC Pipeline System
EMERGENCY PLANNING ZONE**