



# Taking Care along the pipelines we operate

November 2017



## Your emergency planning zone: JOFFRE TO GWYNNE

The Emergency Planning Zone (EPZ) is a critical part of our pipeline emergency response plan. On pipelines, the primary hazard is a leak or rupture, caused by an accidental sudden impact on the pipeline by a third party or other integrity issue. The resulting vapour released has the potential to ignite if it finds an ignition source.

The size of zone depends on the potential release rates of the pipeline in your area and the properties of the product involved. If there are multiple pipelines, the larger zone applies. As indicated on the map on the reverse side, the box indicates a planning zone of 2,400 metres (1,200 metres each side of the pipeline).

Your residence falls within that zone similar to the examples shown on the map.

The Alberta Energy Regulator (AER) uses the following information to determine Emergency Planning Zones for pipelines.

Diameter	Material	Estimated peak release rate	EPZ
12 inches	Ethylene	1,584 kg/sec	1,200 metres
10 inches	Propane	800 kg/sec	900 metres
10 inches	Ethane	1,000 kg/sec	900 meters

## Health information about the products in the pipelines in your EPZ

### ETHANE AND ETHYLENE

Ethane and ethylene gases are extremely flammable. Exposure can cause headache, fatigue, and dizziness. The toxicity from an acute exposure to ethane and ethylene is considered low. Exposure to very high levels in an enclosed space may cause suffocation due to lack of oxygen. Contact with the liquefied gases can cause frostbite. Ethane and ethylene are not human carcinogens\*.

### PROPANE

Propane is very flammable. At low concentrations propane is essentially non-toxic. At high concentrations propane may cause headache, nausea, and dizziness. Exposure to very high levels in an enclosed space may cause suffocation due to lack of oxygen. Contact with liquid propane can cause frostbite. Propane is not a human carcinogen\*.

*\*Carcinogen: a substance that can cause cancer.*

## Community Safety Measures

In the event of a pipeline leak or rupture, we notify the local municipality to assist with emergency management and response. The municipality will direct the community to either shelter in place or evacuate.

### Shelter In Place

The steps to shelter in place are simple:

1. Go inside and close all the doors and windows.
2. Turn on local radio / TV and listen for information or updates.
3. Turn off furnace / air, and exhaust fans to avoid drawing air inside.
4. Seal a room using wet towels at the bottom of the door and breathe through a damp towel if odours are present.

### Evacuation

If you are instructed by authorities to evacuate, you will be instructed to:

1. Quickly gather a change of clothes, plus any medications and dietary need items.
2. Leave the area in an orderly manner following the route outlined by authorities.
3. Gather at the location, or check in using the manner designated by authorities, so they can account for you — and emergency personnel can focus on locating people who are still not accounted for.

## Alberta Energy Regulator (AER) contact information

General inquiries or regulatory questions: **1-855-297-8311** ■ e-mail: [inquiries@aer.ca](mailto:inquiries@aer.ca) ■ [www.aer.ca](http://www.aer.ca)  
 Emergency response / complaints (24-hour toll free): **1-800-222-6514**

*The AER was established to ensure public safety, environmental protection, and conservation of Alberta's hydrocarbon resources.*

