Potential Health Effects from HVP Products Exposure

SKIN	Irritation of skin may occur and progress to dermatitis. One component, benzene, may be absorbed through the skin.
EYES	Irritation of eyes may occur.
BREATHING	Breathing mists or vapours may cause accumulation in the lungs and/or central nervous system depression, dizziness, headaches, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.
SWALLOWING	Swallowing mists or vapours may cause accumulation in the lungs and/or central nervous system depression, dizziness, headaches, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.
LONG-TERM HAZARDS	Defatting and drying of skin may occur and cause dermatitis. Inhalation of one component, benzene, has been associated with blood disorders including anemia and leukemia. Repeated exposure to high vapour concentrations may cause eye and respiratory irritation, giddiness, staggered gait, nausea, abdominal pain, loss of appetite, liver damage, kidney damage, and damage to the bone marrow including cancer.
CARCINOGENICITY	Benzene is listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

Response Consideration

Environment, Health & Safety

Plains adheres to the highest environmental and safety standards throughout our organization. We provide a workplace that protects the health and safety of our employees, contractors and the communities surrounding our facilities.

Plains' operations are subject to stringent federal, provincial and local laws and regulations governing the discharge of materials into the environment or otherwise related to protecting the environment.

Our Environment, Health and Safety (EH&S) Management Programs are at the core of our operations. These programs include management commitment and leadership, employee training and awareness, inspections and audits, performance and achievement recognition, emergency preparedness and response, communications and continuous improvement.

Notification

If you are contacted by Plains Midstream Canada to advise you of an emergency situation, the caller will:

- Identify themselves by name.
- Announce that they are a Plains Midstream Canada representative.
- Describe the problem and what is being done.
- Give you instructions to protect your safety (shelter / evacuation).
- Verify the information you have provided.
- Address any concerns which you may have.
- Provide a telephone number which you can call to get additional information.

Emergency Contacts

If you suspect a problem at a Plains facility in your area, please call Plains Midstream Canada's 24-hour Emergency Response number:

1-866-875-2554

In the event of an emergency, Plains will be working with the AER and local authorities.

Alberta Energy Regulator (AER)

AER 24-hour emergency line 1-800-222-6514

Local Authorities

Village of Breton, AB 780-696-3636
Calmar, AB. 780-985-3604
Clearwater County, AB. 403-845-4444
Cochrane, AB. 403-851-2540
Cremona, AB 403-637-3762
Cynthia/Brazeau County/Violet Grove, AB 780-542-7777
Devon, AB 780-987-8300
Drayton Valley, AB 780-514-2200
City of Edmonton, AB 780-442-5311
. . . . . 311 (in city)
Lac Ste Anne County, AB 780-785-3411
Lacombe County, AB 403-782-6601
Leduc County, AB. 780-955-3555
Mountain View County, AB 403-335-3311
Ponoka County, AB 403-783-3333
Red Deer County, AB 403-350-2150
Town of Rocky Mountain House, AB 403-845-2866
Rocky View County, AB 403-230-1401
Strathcona County, AB. 780-410-8550
Town of Thorsby, AB 780-789-3935
County of Wetaskiwin No. 10, AB 780-352-3321
Woodlands County, AB 780-778-8400
Yellowhead County, AB 780-723-4800

AMBULANCE/POLICE/FIRE 9-1-1

Pipeline Safety

Keeping Pipelines Safe and Reliable

Public Awareness Information for landowners and area residents related to Plains Midstream Canada's Co-Ed pipeline.

- Emergency notification
- Public protection measures
- Pipeline safety: Call or Click Before You Dig

JANUARY 2020

PLAINS MIDSTREAM CANADA

Our Operations in your Area

Plains Midstream Canada ULC (Plains) is the operator of the Co-Ed pipeline system. These pipelines are licensed as High Vapour Pressure (HVP) and forms part of Plains Midstream Canada's Alberta pipeline network. The maximum Emergency Planning Zone (EPZ) is 1.1 km for the Co-Ed pipeline System. Refer to the map on the back of this brochure for more details.

High Vapour Pressure (HVP) Products

HVP products include propane, butane, pentane, and Natural Gas Liquids (NGLs). At atmospheric pressure, HVP products are gases. Under pressure, HVP products exist in a liquid state. In humid air, a leak of an HVP product may form a visible white cloud of cold vapour considerably heavier than air. Under extreme conditions, pools of super-cooled liquid may briefly form. When HVP products vapourize, they expand (70 to 300 times) and can form a plume, which may drift downwind from the source under moderate wind speed conditions. Under higher wind speed conditions, the vapour would dissipate faster.

Main Hazards:

- Potential explosion hazards from delaying ignition of drifting vapour cloud.
- Fire hazard from burning gas and radiant heat.
- Critical hazard because of oxygen deficiency as expanding gas cloud or plume displaces air at ground level.

If You Suspect a Problem

Please call Plains Midstream Canada's 24-hour emergency number if you suspect a problem (1-866-875-2554).

While the chance of an uncontrolled spill or problem is remote, the Plains Emergency Response Plan (ERP) for this area is in place to ensure your safety. If a leak should occur, emergency crews will take immediate steps to minimize the risk to the public and environment.

Additional emergency response personnel will be notified and dispatched to the area to safely manage the emergency.

Click Before You Dig

CLICK OR CALL BEFORE YOU DIG

To create a safe work environment for everyone, before undertaking any ground disturbance, you must contact your provincial One-Call centre. Go to www.clickbeforeyoudig.com for the One-Call information you need before conducting any ground disturbance activity within the prescribed area (which extends 30 metres on each side of the centre line of pipe). You may also require written consent for your activity, please contact Plains at landrequests@plainsmidstream.com for more information on permissions.

clickbeforeyoudig.com

ALBERTA ONE-CALL 1-800-242-3447

Public Protection Measures

Evacuation, Shelter & Ignition Procedures

Evacuation Procedures

If it is necessary to evacuate, you will be contacted by telephone immediately. If there is no answer to our calls, we will proceed to your residence to inform you of the situation. The following steps should be taken if "Evacuation" procedures have been implemented:

- Gather all residents and bring any medicines required.
- Lock all windows and doors.
- Turn down thermostat and shut off any air exchange fans to outside.
- Drive safely on the route provided and proceed directly to the evacuation centre and check in with the representative.
- Wait for further instruction.

Shelter-in-Place Procedures

If you are advised to stay sheltered, do not leave your house or attempt to start any vehicles until a Plains representative advises you that it is safe to do so. The following steps should be taken if "Shelter-In-Place" procedures have been implemented:

- Immediately gather everyone indoors and stay there.
- Tightly close and lock all windows and outside doors, if convenient, tape any gaps around exterior door frames.
- Extinguish indoor wood-burning fires and close flue dampers if possible.
- Turn off appliances or equipment that either blows out or uses indoor air, such as:
  - furnaces
  - kitchen fans
  - bathroom fans
  - built-in vacuum systems
  - clothes dryers
  - gas fireplaces
  - gas stoves
  - air conditioning
  - ventilators
- Turn off appliances or equipment that suck in outdoor air, such as
  - Heating, ventilation, and air conditioning (HVAC) systems
  - Fans for heat recovery ventilators or energy recovery ventilators
  - Turn down furnace thermostats to the minimum setting, turn off air conditioners
- Leave all inside doors open.
- Wait in an interior room upstairs for further instruction.
- Avoid using the telephone, except for emergencies, so that you can be contacted by Plains emergency response personnel.
- Call Plains if you are experiencing symptoms, smelling odours or have contacted government agencies (so the response can be coordinated).
- Stay tuned to local radio and television for possible information updates.
- Even if you see people outside, do not leave until told to do so.
- If you are unable to follow these instructions, please notify Plains emergency response personnel.

After the hazardous substance has passed through the area you will receive an "all-clear" message from Plains emergency response personnel. You may also receive, if required, instructions to ventilate your building by:

- opening all windows and doors
- turning on fans
- turning up thermostats

During this time the air outside may be fresher and you may choose to leave your building while ventilating. Once the building is completely ventilated, return all equipment to normal settings and operation.

Ignition Procedures

If it is determined that ignition is required, the Incident Commander is fully authorized to ignite the release at the pipeline, facility or terminal. Ignition of the gas source would ensure your safety if evacuation was not practical.

Plains Midstream Canada's 24-hour emergency number

1-866-875-2554

PLAINS MIDSTREAM CANADA

CO-ED PIPELINE SYSTEM

COUNTIES/MUNICIPAL DISTRICTS

WOODLANDS COUNTY
Whitecourt
LAC STE. ANNE COUNTY
PARKLAND COUNTY
YELLOWHEAD COUNTY
Edson
BRAZEAU COUNTY
Drayton Valley
Mayerthorpe
Barrhead
Westlock
Legal
Redw
Bon Accord
Gibbons
Morinville
FORT SASKATC
ST. ALBERT
CITY OF EDMONTON
STRATHCONA COUNTY
SPRUCE GROVE
Stony Plain
WABAMUN 133A
STONY PLAIN 135
ALEXANDER 134
ALEXIS 133
Beaumont
Devon
LEDUC
Calmar
LEDUC COUNTY
Millet
COUNTY OF WETASKIWIN NO. 10
PIGEON LAKE 138A
WETASKIWIN
ERMINESKIN 138
LOUIS BULL 138B
PONOKA COUNTY
Ponoka
SAMSON 137
SAMSON 137A
MONTANA 139
Rimbey
Lacombe
Bentley
Blackfalds
LACOMBE COUNTY
Eckville
Sylvan Lake
RED DEER
RED DEER COUNTY
Penhold
Innisfail
Bowden
MOUNTAIN VIEW COUNTY
Sundre
Olds
Didsbury
Carstairs
Crossfield
ROCKY VIEW COUNTY
AIRDRIE
CALGARY
Chestermere
Strathm
Cochrane
Rocky Mountain House
CLEARWATER COUNTY
ALEXANDER 134A (FOX CREEK)
ALEXIS WHITECOURT 232
ALEXIS ELK RIVER 233
ALEXIS CARDINAL 234
BUCK LAKE 133C
O'CHIESE 203
O'CHIESE CEMETERY 203A
BIG HORN 144A
STONEY 142B
STONEY 142, 143, 144
TSUU T'INA NATION 145
ALBERTA
BRITISH COLUMBIA
Jasper National Park
Banff National Park
Yoho National Park
Golden
Banff
Canmore
Mount Assiniboine Provincial Park
Spray Valley Provincial Park
WEST 5 MERIDIAN

CO-ED PIPELINE

Legend

Plains Midstream Pipelines
- HVP
- LVP
- Sour Crude Oil
- Sour Gas
- Sour Oil
- Sweet Gas
- Sweet Oil
- Water
- Sweet Crude Oil
- Discontinued

Emergency Planning Zone
- Co-Ed
- CEPA

Facilities
- Terminal

JUNE 2017