

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.

Potential Health Effects from LVP Products Exposure

SKIN	This product is a moderate skin irritant and repeated or prolonged contact may defat the skin.
EYES	This product is a moderate eye irritant and could cause (days) impairment to your vision.
BREATHING	Potential effects target the Central Nervous System, liver and kidneys. The benzene component is a known human carcinogen that may result in aplastic anemia and leukemia. Symptoms may include coughing, itchy throat, dizziness and drowsiness.
SWALLOWING	If ingested, abdominal cramping, vomiting and diarrhea may occur. Aspiration of liquid into the lungs may cause chemical pneumonia, severe lung damage.
CHRONIC EFFECTS	Potential chronic effects include peripheral neuropathy and blurred vision. Chronic exposure has resulted in aplastic anemia, acute myoblastic leukemia, bone marrow depression, corneal vacuolization erythroleukemia, and even death.
CARCINOGENICITY	Known Carcinogen NTP, Known Human Carcinogen IARC Group 1 proven and Confirmed Human Carcinogen ACGIH A1. Ethylbenzene is classified as a Possible Carcinogen IARC 2B.

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 Alberta Energy Regulator, and the local authority.

Alberta Energy Regulator (AER)

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

Local Authority

Brazeau County 780-542-7777

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 Buck Creek Fractionation Plant (BCFP).

- Emergency notification
- Public protection measures

May 2022



**PLAINS
MIDSTREAM**
C A N A D A

Our Operations in your Area

The Buck Creek Fractionation Plant (BCFP) in LS 13-24-48-7 W5M (48329 Range Road 71). The plant removes excess ethane from NGLs gathered on the Pembalta system and produces frac oil and solvent for local sale. The is also an offloading terminal delivering C3+ to the West Pembina (Co-Ed) pipeline system and offloading C5+ for frac oil/solvent production or delivery to the Pembina pipeline system.

The Plant was originally designed to process approximately 7,000 bpd of raw natural gas distillate into specification propane, isobutane, normal butane and C5+. The BCFP has since been modified such that a de-ethanized NGL product or C3/C4 mix and condensate (C5+) products are produced. Condensate is delivered to the Pembina Resources Pipeline. The C3/C4 mix and the bypassing C3 + NGL mix is shipped, though connections to the Co-Ed Pipeline, to Fort Saskatchewan. Total deliveries from Buck Creek Plant to the Co-Ed Pipeline system are approximately 6,600 bpd.

A high ethane NGL mix from the Pembalta pipeline system, C3+ and C5+ truck offloaded volume.

The plant can process approximately 5,500 bpd of high ethane NGL mix and 5,000 bpd of low ethane NGL mix, and 1,900 bpd of frac oil and solvent production.

As there are storage tanks a containing substances in excess of threshold limits listed in Schedule 1 of the Canadian Environmental Protection Act (CEPA), Environmental Emergency (E2) plans have been developed for key facilities to meet Environment and Climate Change Canada Environmental Emergency Regulations, 2019: SOR/2019-51. Included below is the calculated Emergency Planning Zone (EPZ) , including the regulated substance stored at the facility. Refer to the map on the back of this brochure for more details.

PMC Buck Creek Fractionation Plant (BCFP) 13-24-48-7 W5M
E2 Regulated Substances: NGL
Emergency Planning Zone: 200 m



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.

Low Vapour Pressure (LVP) Products

LVP products are generally limited to hydrocarbon condensate which remains in a liquid state at atmospheric pressure. LVPs are heavier than air and collect in low places or depressions in the ground. LVPs are clear, pale golden flammable liquids with an odour similar to gasoline.

Main Hazards:

- Fire hazard and intense heat if condensate is ignited.
- Potential explosion hazards if condensate vapours seep into enclosed areas.
- Contamination of soil and water.
- Products can flow under snow or ice, making the actual spill area larger than it appears.
- Breathing mists or vapours may cause accumulation in lungs and/or central nervous system resulting in dizziness, headaches, depression, giddiness, drowsiness, fatigue, nausea, unconsciousness or death.

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.

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.

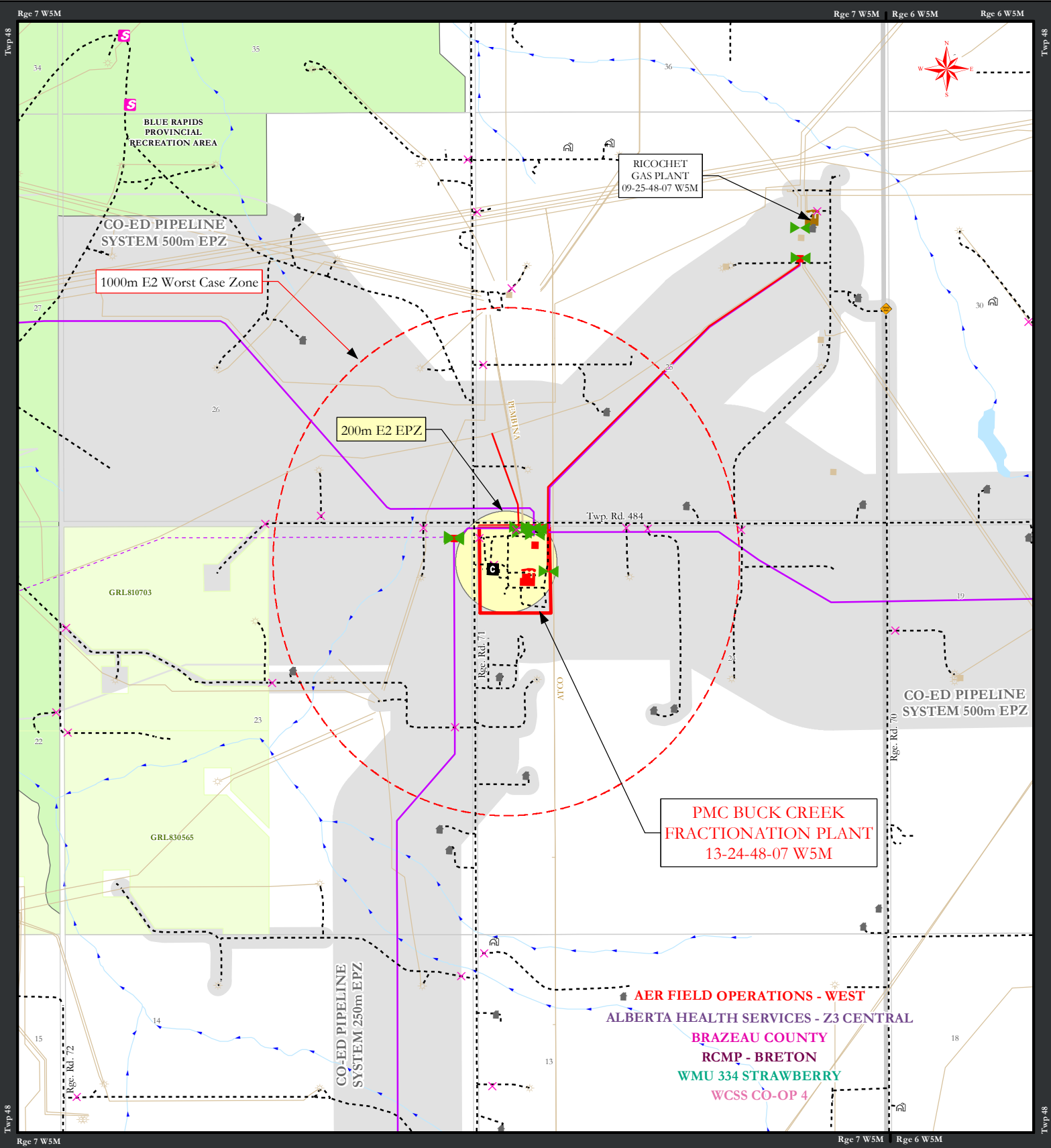
After the hazardous substance has passed through the area you will receive an "all-clear" message from Plains emergency response personnel. You may also receive, if required, instructions to ventilate your building by:

- 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.



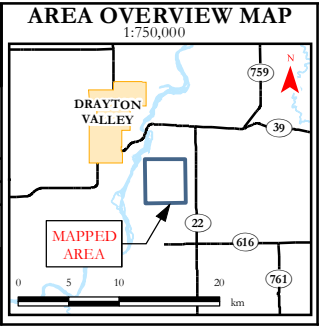
BUCK CREEK FRACTIONATION PLANT
BUCK CREEK E RTP

PLAINS MIDSTREAM
CANADA

Draft Date: May 23, 2019 DS Scale: 1:20,000 Map: 8812
Revision Date: May 11, 2022 ET UTM ZONE 11 NAD83

0 0.25 0.5 km

H2Safety
h2safety.ca



<ul style="list-style-type: none"> Third Party Well Third Party Facility Third Party Gas Plant Facility Gas Plant Manual PMC Facility Boundary 	<ul style="list-style-type: none"> Third Party Pipeline Gas Pipeline HVP Pipeline Discontinued HVP Pipeline Other Roads Main Hwy Railway 	<ul style="list-style-type: none"> Occupied Facility Surface Development Dead End Farm Use Area Locked Gate Staging Area River Flow Direction Hydrology Waterbody Urban Area 	<ul style="list-style-type: none"> AER Field Centre Alberta Health Services Local Authority RCMP Wildlife Management Unit WCSS Zones E2 EPZ Other PMC System EPZ
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