

Pipeline Safety Information for School Officials



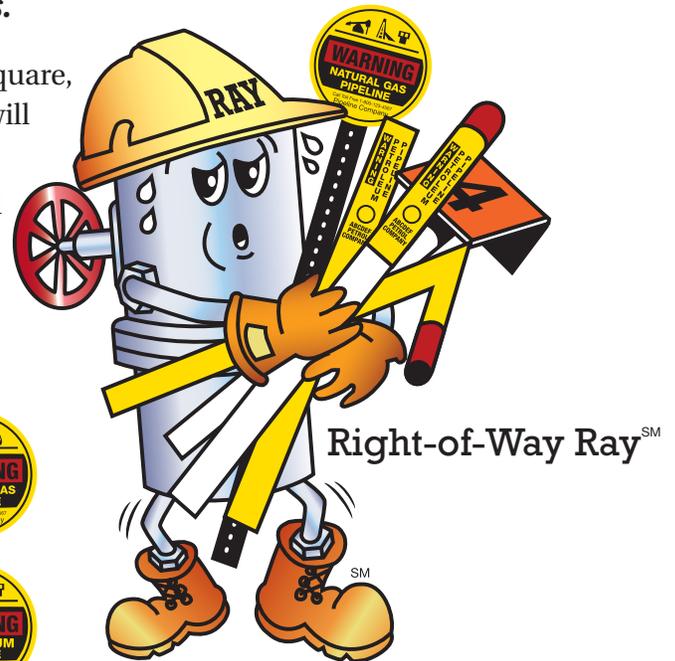
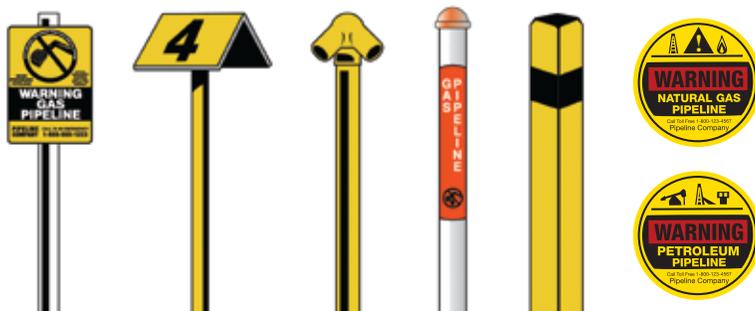
School Pipeline
Safety Partnership

Pipeline Markers

Pipeline markers are generally yellow, black, and red and can be found along a right-of-way (ROW). Look for them near roads, railroads, bikeways, buildings, and waterways.

These markers vary in shape and in size. They can be square, round, slanted, or post-like in form. Pipeline markers will give key information about the pipeline located there.

Pipeline markers are meant only as a general guide and warning. Markers should not be used to determine the precise location of the underground facility.



Pipeline Locations

Pipelines can be ideal neighbors – they are quiet and generally out of sight! The majority of pipelines are situated underground. However, pipelines can be seen emerging from the earth at terminals, pumping, and compressor stations. They can also be found crossing waterways or bridges.

Pipelines are located in an easement or ROW. ROW's can be located by looking for corridors that are clear of vegetation, houses, buildings, and other structures. You can also spot a ROW by looking for pipeline markers.

To learn about the pipeline operators and systems in your area, please visit: www.npms.phmsa.dot.gov

Pipeline markers will tell you:

- *The words “Warning”, “Caution”, or “Danger”*
- *Name of pipeline operator*
- *Telephone number for operator*
- *Product transported*
- *Pipeline’s general location*

Pipeline markers will not tell you:

- *The precise location of the pipeline*
- *Pipeline’s depth*
- *Pipeline’s size*
- *Number of pipelines in a ROW*

Recognizing Pipeline Leaks

Pipeline incidents are extremely rare, but they can happen. Any one of these three senses can tell you if a pipeline has been compromised. Just remember **The Three S's**:



Smell

Be mindful of sulfur-like or “petroleum” odors* near a pipeline.

* Odorized lines only



Sight

Watch for dead or discolored vegetation along a pipeline easement. Also be wary of unusual pools or puddles of liquid and clouds of vapor or mist. Blowing dirt and bubbles in standing water are also danger signs.



Sound

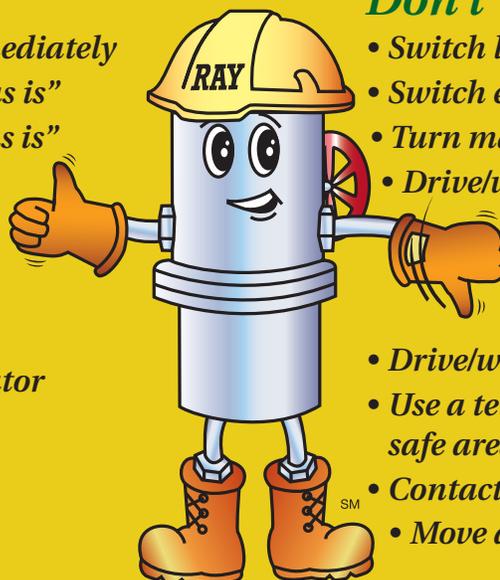
Listen for a hissing or a roaring sound. The loudness depends on the leak size.

Response Protocol

Responding to an incident is critical to the safety of your students, faculty and facilities. If you recognize a leak:

Do

- Leave the area immediately
- Leave equipment “as is”
- Leave machinery “as is”
- Get to a safe location and call:
 - local emergency response number
 - 911
 - the pipeline operator
- Secure the area
- Warn others
- Move upwind
- Move uphill



Don't

- Switch lights on or off
- Switch electrical equipment on or off
- Turn machinery on or off
- Drive/walk into vapor cloud
- Light a match
- Start an engine
- Create heat or sparks
- Drive/walk into liquid puddles
- Use a telephone of any kind until in a safe area
- Contact escaping material
- Move downwind

Know What's Below. Call Before You Dig.



View the
Pipeline Safety
“Pirate” Video at:
www.call811kids.com

Be alert to any public construction or excavation on or near school grounds. Be sure that any excavator working on your school grounds has contacted your state or local One Call Center at least 48 hours before digging. You can now dial 811 from anywhere in the country to be routed to your local One Call Center whether your interest is to protect your personal or professional property.

ALWAYS
CALL
BEFORE YOU
DIG



Industry Safeguards



Pipelines are governed by the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, and various state

entities. These governmental agencies ensure that pipeline regulations are properly followed and enforced, resulting in greater public and environmental safety.

Pipeline operators use a combination of measures to protect this \$400 billion investment in our nation's infrastructure. Pipeline companies have control centers which monitor their operations for any potential problems 24-hours per day, 365 days per year.

Additionally, operators routinely inspect their pipelines by using a variety of methods including in-person examinations, internal inspection devices, and aerial patrols. Cathodic protection, which helps protect pipelines from corrosion, is also used.

Pipelines and Terrorism

According to the National School Safety Center, “Schools have been deemed easy targets for terrorism due to their accessibility, vulnerability, and prominence in the community”. Pipelines are vulnerable, static targets. Environmental awareness, extra caution, and vigilance are required around pipeline operations and suspicious behavior should be reported to the proper authorities.

Pipelines and Pupils



Quite often pipeline facilities and operations are overlooked when assessing risks in the school community. You are receiving this information because pipeline infrastructure is located near schools or facilities in your district.

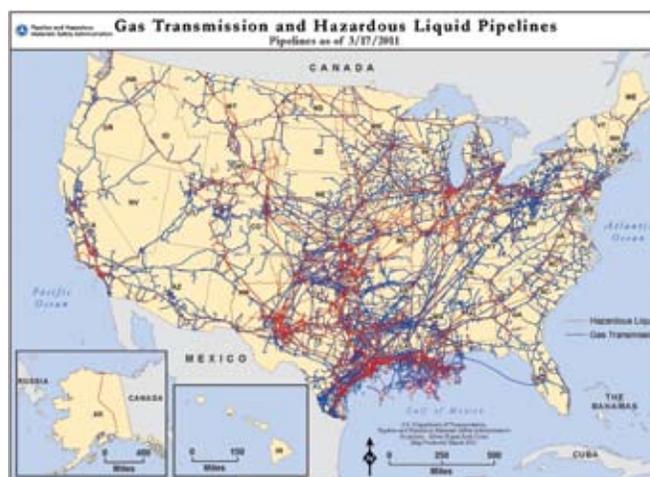
The following information will assist administrators, faculty, staff, and students in safely coexisting with your neighbor, the pipeline. More importantly, please use the information when evaluating and planning for potential pipeline emergencies. Adherence to these guidelines will help to reduce the probability of a pipeline emergency. Moreover, following the response protocols found in this document will help to mitigate potential dangers should an incident occur.

Pipeline Necessity

Pipelines transport roughly 25% of our nation's total freight and 70% of our petroleum fuel supplies. Pipelines are the safest and most reliable means of transporting energy products.

Materials transported via pipelines include natural gas, crude oils, liquid petroleum products, and chemical materials. Pipelines are crucial in moving our energy resources from production and importation areas to ultimate end-use consumers. They are an essential and vital component of our nation's economy.

Pipelines are also critical in supporting the manufacturing of many consumer products such as plastics, pharmaceuticals, chemicals, and other consumer goods.



Did you know that the United States is crisscrossed with over 2.3 million miles of pipelines? Pipelines are so prolific that approximately one out of every 20 schools in America is within one-half mile from a pipeline.

To view pipelines in your area:

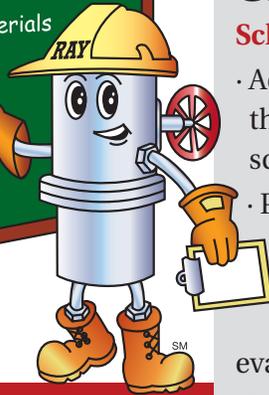
Visit the website of the U.S. Department of Transportation-Pipeline Safety and Hazardous Materials Administration at www.npms.phmsa.dot.gov

Advance Preparation



As an administrator or faculty member, knowledge and advance preparation are paramount to properly responding to potential emergencies. The following suggestions will help you become better prepared.

- Familiarize yourself, your faculty and staff, and students with nearby pipelines or facilities.
- Note any pipeline markers in the area and have pipeline contact information available.
- Incorporate these materials into your emergency preparedness plans.
- Conduct disaster scenarios or tabletop exercises simulating a pipeline incident.



The School Pipeline Safety Partnership provides downloadable and printable pipeline safety information and resources for school administrators, safety officials and staff online at www.schoolpipelinesafety.org including:

Customized Resources

School Web Page *(sponsored schools only)*

- Aerial map that shows the location of the school and pipeline
- Pipeline contents, size, pressure, distance from building, and recommended evacuation distance
- Pipeline operator contact information and emergency number



Safety Plan Resources

Pipeline Safety Brochure for School Officials

Learn more about how to locate and identify pipeline markers, identify physical indications of a leak, possible hazards associated with a leak, steps that should be taken to protect the public in the event of a leak, procedures to report a leak and how to use the 811 One Call system before excavating on or near school grounds.

Pipeline Safety Brochure for School Bus Drivers

Train bus drivers how to recognize indications of a possible leak and respond appropriately at schools or along their bus routes.

Additional Resources

- How to protect pipelines and your school including 811 Call Before You Dig information
- Safety Plan Checklist
- Useful links to pipeline resources including the National Pipeline Mapping System, classroom resources, activities and videos

About the School Pipeline Safety Partnership

The School Pipeline Safety Partnership is sponsored by the Pipeline Association for Public Awareness and the Danielle Dawn Smalley Foundation. The Partnership's pipeline education program provides information and guidance to school administrators, safety officials, bus drivers and other staff at schools located near underground pipelines.



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