

PA73

Texas Eastern – Planned Maintenance

Cheltenham Township Briefing

What we do



We fuel quality of life for millions of people every day



Energy powers every aspect of our lives from our cellphones, heating homes and fueling transportation

Pennsylvania Assets and Operations



Enbridge's operations, projects, and/or asset ownership interests in Pennsylvania include:

- **Texas Eastern Transmission**

- a natural gas pipeline, which travels more than 8,500 miles, moves more than 13 Bcf/d of natural gas, and connects Texas and the Gulf Coast serving high-demand markets in the Mid-Atlantic and Northeast.

- **Heidlersburg Solar Project**

- 2.5-MW solar self power in Adams County supplying a portion of the electrical power required to run Texas Eastern Transmission natural gas pipeline system

- **Leidy Storage Facility**

- A natural gas storage facility in Clinton and Potter Counties.

- **Oakford Storage Facility**

- A natural gas storage facility, in Westmoreland County.

- **Steckman Ridge**

- A natural gas storage facility, in Bedford County.



For more detailed information on Enbridge's infrastructure, projects and/or community investment activity in Pennsylvania, please visit our online interactive map at [Enbridge.com/map](https://www.enbridge.com/map)

Safety is our #1 priority



We invested
\$12.5 B

2012-20 to maintain the integrity of our system

We performed
107,739

pipeline integrity inspections in 2020

We monitor our lines
24-7

with people and computerized leak detection systems

We held/participated in
186

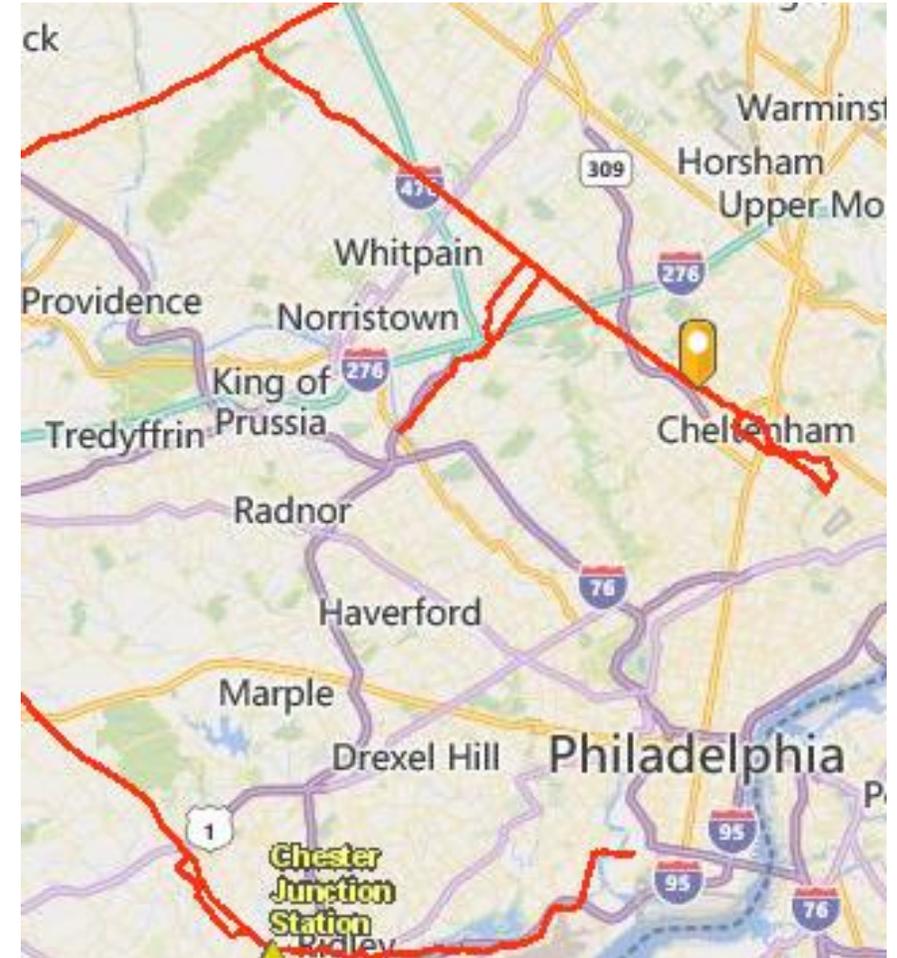
emergency exercises and drills in 2020



Above all else, we believe every incident can be prevented. We are always working to ensure the safety of our employees, neighbors, communities and the environment

PA73 (Church Rd) - Project Overview

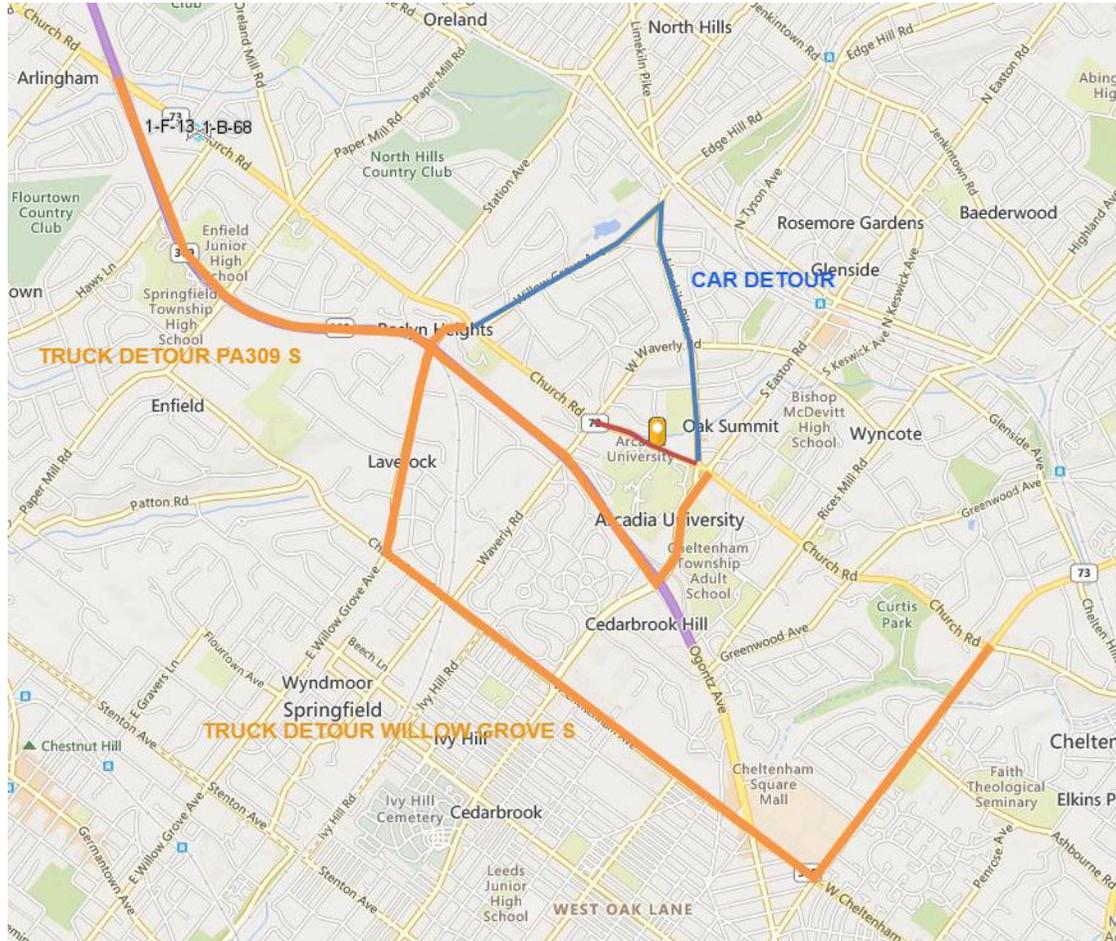
- 20 Foot x 60 Foot Opening in Roadway
- PA 73 East (Church Rd) - Detoured
- PA 73 West (Church Rd) – Remains Open
- Driveways across from University – Right Turn Only
- Truck Detour
 - Willow Grove Avenue to Cheltenham Avenue to Washington Lane
 - PA 73 East (Church Rd) to PA 309 to PA 152 (Easton Rd)
- Car Detour
 - Willow Grove Avenue to PA 152 Limekiln
- Off-Duty Uniformed Police Officers at the 6 Locations with Traffic Signal Control along Detour Routes (AM/PM Peak)
- Flaggers on Church Street to allow EMS mobilization
- Electronic Signage on Church Street
- Signal Timing Adjustments – Off Peak Time Periods
- Anticipated work hours 7 AM to 5 PM Monday – Friday, 8 AM to 5 PM Saturday



PA73 - Project Overview *continued*



PA73 - Project Overview *continued*



To Allow for the closure of Church Rd (Eastbound)
between W. Waverly to Limekiln Pike:

Car Detour

Willow Grove Ave - Limekiln Pike – PA 73 (Church Rd)

Truck Detours

Willow Grove Ave South – Cheltenham Ave – Washington Lane

PA 309 South – PA 152 (Easton Rd)

Community Outreach



- Enbridge would not be able to build or operate our assets without the cooperation and trust of thousands of landowners.
- Notifications will be provided to stakeholders:
 - on Church Road from Willow Grove to Limekiln Pike (in person)
 - the area between W Waverly and Limekiln Pike (mailout)
 - businesses along Willow Grove & Limekiln Pike (mailout)
- Summary of items to be communicated with include:
 - The reason for the lane closure
 - Information about detour route(s)
 - Schedule and work hours
 - Our commitment to safety and the environment
 - Contact information to answer any questions the landowners may have

Stormwater Management



- All excavation will occur within PennDOT ROW, within the existing pavement of PA RTE 73 (Church Rd)
- Cheltenham Twp Planning and Zoning Department determined an excavation in the pavement of PennDOT RTE 73 does not require Local Stormwater Management Approval or an Earth Disturbance Permit.
- An HOP Utility Permit Application was submitted to PennDOT on 6/28/2022 for authorization to conduct the utility repair in the pavement of PA RTE 73, and for approval of Temporary Detour Routes
- Enbridge follows federal, state, and local guidelines for stormwater management.
- Enbridge utilizes Blanket Erosion and Sediment Control Plan (E&SCP) approved by the Federal Energy Regulatory Commission (FERC) for all Enbridge surface disturbance projects and follows Best Management Practices.

Contact Information



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Q&A

What customers do you serve?

- Our job is to provide the various forms of energy North Americans need in the safest, most reliable and sustainable way.
- Energy powers every aspect of our lives, from cellphones, heating homes and fueling transportation.
 - We transport about 30% of the crude oil produced in North America.
 - We transport about 20% of the natural gas consumed in the United States.
- Our renewable energy facilities, primarily wind and solar projects, generate enough energy to power nearly 960,000 homes.
- Texas Eastern Transmission is a natural gas pipeline, which travels more than 8,500 miles, moves more than 13 Bcf/d of natural gas, and connects Texas and the Gulf Coast serving high-demand markets in the Mid-Atlantic and Northeast.
- Locally, Texas Eastern's customers include a local distribution company that delivers vital energy resources to homes in Cheltenham Township.

What is the reason for the upcoming work on Church Road?

- Sophisticated inspection tools monitor both the interior and exterior of our pipes.
- When data from these inspections indicate a change that requires a closer look, we undertake a preventative maintenance dig to physically examine the integrity of the pipe segment and determine if a repair or other action is needed.
- Here are the steps involved in this critical maintenance process:
 - **Marking the dig site:** Temporary markers identify the access route and location of the excavation. The area is stripped of topsoil, which is stored separately from the subsoil.
 - **Excavation:** Using machinery such as a backhoe, the subsoil surrounding the pipeline is carefully removed and stored.
 - **Cleaning and coating removal:** A crew cleans the pipe and removes its protective coating to prepare for a detailed visual inspection.
 - **Inspection:** Qualified technicians inspect the pipe to determine if repairs are required.
 - **Maintenance and repair:** If needed, repairs are made to the exposed section of pipe. These range from cleaning to replacing sections of pipe. Once this work is complete, welds are tested and the section inspected to ensure repairs meet government and industry standards.
 - **Recoating:** Once the pipe is repaired, it is recoated to protect against corrosion from water and soil.
 - **Backfill and cleanup:** The excavation is backfilled and the affected landscape restored.

How are you regulated and how do you monitor your system?

- We are regulated by the Pipeline and Hazardous Materials Safety Administration (“PHMSA”) as they are the agency within the U.S. Department of Transportation that is responsible for issuing and enforcing regulations for the safe, reliable, and environmentally sound operation of natural gas transmission and distribution pipelines.
- We regularly perform aerial and on-the-ground inspection of the pipeline rights of way to monitor for factors that might impact the integrity of the pipeline.
- Ground surveys can reveal potential irregularities, enabling us to quickly repair the problem and minimize impacts.
- Weather permitting, aerial patrols are conducted to provide a bird’s-eye view of the rights of way and surrounding areas, and allow us to monitor for ground changes, construction activities, or other conditions that could affect the pipeline.
- In addition to aerial and on-the-ground monitoring, we also perform periodic interior inspections of the pipeline through the use of sophisticated technological devices known as In-line Inspection (ILI) tools. These cutting-edge tools enable us to examine the pipeline from the inside so we can detect internal and irregularities, and make repairs as needed.

How are you regulated and how do you monitor your system? *Continued*

Below are just a few examples of the human and technological safeguards we employ to continuously protect public safety and ensure the long-term integrity of our pipeline.

Coating

- The entire length of the pipeline is protected by a thick layer of specialized coating that prevents corrosion, abrasion and other damage.
- When underground pipeline facilities are exposed, usually due to excavation or maintenance activities, we always inspect the coating for damage or deterioration.

Cathodic Protection

- To provide another protective barrier against corrosion on the pipeline, we employ a method known as cathodic protection.
- This method uses devices called rectifiers to attract a regulated amount of electric current to the pipeline.
- Cathodic protection impedes corrosive activity and prolongs the useful life of the pipeline for many decades.
- The amount of current applied to the pipeline is harmless to humans, animals and plant life.

Real-Time Monitoring

- Our systems are monitored 24 hours a day, seven days a week by our centralized high-tech Gas Control center to ensure continuous, safe and reliable operations.
- Gas Control continuously monitors the pressure, flow and temperature of natural gas throughout our system so that we always know what is happening along our system at all times.

How do you protect your system in high traffic areas?

- Pipelines are America's lifelines, and they operate safely every day across the country.
- In fact, according to the U.S. Department of Transportation, natural gas transmission pipelines are the safest mode of energy transportation.
- There are more than 300,000 miles of natural gas transmission pipelines in the U.S. today – spanning across communities large and small, rural and urban.
- In order to protect our infrastructure network, we consider information like weight calculations and traffic volumes at roads and crossings all along our system.
 - We reevaluate and run new load calculations any time a road or intersection is redesigned or altered down to sub-base.
 - Enbridge maintains strict requirements for construction activities in the vicinity of our system or right-of-way and the movement of vehicles or mobile equipment within or across our right-of-way by third parties through the company's established technical guidelines.
 - We provide these guidelines to 3rd-party contractors on a regular basis and our goal is to ensure the contractors have these available during the planning stages of their work as a proactive measure.

How do you talk to stakeholders about safety around pipelines?

- We contact landowners, business owners, tenants, communities, Indigenous and Native American groups, excavators, municipal officials and emergency officials on an ongoing basis.
- It's an opportunity to share important information, hear about our neighbors' experiences, respond to their questions, and update them on Enbridge's safety programs.
- Our robust Public Awareness Program focuses on several key groups near our pipelines and facilities:
 - Our neighbors;
 - Farmers and ranchers;
 - Emergency officials;
 - Excavators and contractors;
 - Public officials; and
 - School officials.
- In addition to direct mailings, anyone can access these materials at <https://www.enbridge.com/projects-and-infrastructure/public-awareness>

Resources

PHMSA Regulations

<https://www.phmsa.dot.gov/regulations>

National Pipeline Mapping System

<https://pvnpm.phmsa.dot.gov/PublicViewer/>

Enbridge Infrastructure Map

<https://www.enbridge.com/map#map:infrastructure>

Enbridge Downloadable Public Awareness brochures

<https://www.enbridge.com/projects-and-infrastructure/public-awareness/brochures>