

Texas Eastern Transmission, LP (Texas Eastern) is proposing the Schuylkill River HDD Project (Project) to maintain their existing natural gas pipeline system. The Project is in Spring City and Upper Providence Townships, Chester and Montgomery Counties, Pennsylvania, and is within the Phoenixville USGS 7.5 Quadrangle.

At this location, Texas Eastern has two parallel existing pipeline systems which cross under the Schuylkill River: Line 1, a 20-inch diameter pipeline, and Line 2, a 36-inch diameter pipeline. The existing easement ranges from approximately 75 feet to 110 feet in width. Texas Eastern during routine monitoring of Line 1, identified an approximately 18-foot exposure of the Line 1 pipeline in the Schuylkill River.

The Project proposes to install a new 20-inch diameter pipe with a horizontal directional drill (HDD) of approximately 1,111 linear feet. The new pipeline will be parallel and offset approximately 20 feet from the existing Line 1 within the existing easement. Additionally, the existing 20-inch diameter Line 1 pipeline will be removed. Temporary workspace consists of the existing easement and additional temporary workspace parallel to the easement. Access to the site will be along existing roads.

A PNDI Project Environmental Review was completed for the Project (PNDI-776177). At the time of permit application submittal, no Avoidance Measures have been indicated. Review with the PA Fish & Boat Commission (PFBC) is ongoing for the Northern red-bellied cooter, therefore Avoidance Measures could be provided by the PFBC. This information will be provided to PADEP.

Texas Eastern proposes to begin HDD construction activities in mid-January 2024 with an in-service date of late April 2024. The removal of Line 1 will occur following the HDD activities.

Line 1 HDD Impacts

S1-1 (Schuylkill River) – Temporary Impacts

- No impacts proposed with the HDD. Texas Eastern has developed and will implement an Inadvertent Return Contingency Plan.
- Approximately 398 feet by 215 feet of the river is included in the workspace
- Floodplain: approximately 990 feet by 215 feet is included in the workspace
 - Approximately 520 feet on the north side
 - Approximately 470 feet on the south side

W1-1 Wetland (PEM) – Temporary Impacts:

- HDD entry pit, excavation 6 feet by 6 feet

W1-2 Wetland (PEM) – Temporary impacts

- Identified Workspace with the potential to use timber mats 372 feet by 61 feet = 22,692 square feet (0.52 acre)

W1-4 Wetland (PFO) – Permanent Indirect Impacts (PADEP):

- Identified Workspace with the potential to use timber mats 188 feet by 181 feet = 34,028 square feet (0.78 acre)

Line 1 Removal Impacts

Upon successful completion of the HDD and tie in between the new and old piping system, crew activities will transition to the out of service line removal. Prior to any additional cuts on the pipeline a launcher and receiver will be installed on either end to perform additional cleaning and purging runs to ensure the pipeline is free of potential liquid products or debris. A series of poly and foam pigs will be moved with

Project Description Narrative

nitrogen at a slow rate to push product/debris to the receiver at which time it will be captured in a vacuum truck and disposed of in accordance with environmental permits.

Excavation will be performed on both sides of the river from tie in point to riverbank, and the decommissioned segment of pipe removed on either side up to the river, eliminating the field bends down into the river.

A pull head will then be welded onto the end segment of one side of the crossing and the drill rig will be attached. The drill rig will then extract the existing segment from the instream river in a similar manner as to how the HDD product pipe is pulled through.

In the event the drill rig is unable to break the suction and friction forces holding in the decommissioned segment in place a large air hammer will be installed over the opposite end, and both push/pull forces will be applied until the static friction force is broke free.

If river bottom contours are disturbed during removal activities an amphibious excavator can be utilized to perform minor regrading back to existing elevations.

S1-2 (Schuylkill River) – Temporary Impacts

- Approximately 398 feet stream x 20-inch pipeline = 663 square feet
- Approximately 398 feet by 215 feet of the river is included in the workspace
- Floodplain: approximately 990 feet by 215 feet is included in the workspace
 - Approximately 520 feet on the north side
 - Approximately 470 feet on the south side

W1-3 Wetland (PEM) – Temporary Impacts:

- Trench excavation, 327 feet by maximum 20 feet wide = 6,540 square feet (0.15 acre)

W1-2 Wetland (PEM) – Temporary impacts (duplicate of HDD impacts)

- Identified Workspace with the potential to use timber mats 372 feet by 61 feet = 22,692 square feet (0.52 acre)

W1-4 Wetland (PFO) – Permanent Indirect Impacts (PADEP) (duplicate of HDD impacts)

- Identified Workspace with the potential to use timber mats 188 feet by 181 feet = 34,028 square feet (0.78 acre)