

Project Profile



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City of Hamilton, OH Uses Fusible C-905® Pipe to Slipline 24-inch Water Transmission Main

With 4,500 LF of 24" water transmission main in need of replacement and a highway widening project nearing completion, the City of Hamilton needed to act swiftly to remediate an existing spiral wound, welded steel pipe that had developed pinhole leaks throughout the line. The City evaluated multiple renewal options, including traditional open cut replacement and several trenchless rehabilitation options.

The City settled on two alternative trenchless renewal options: 1) installing a polyethylene tight-fit liner, or 2) sliplining with 20" Fusible C-905® PVC pipe. After comparing the stand-alone pressure capability of 20" C905 PVC pipe against a polyethylene liner that would rely in part upon the deteriorating host pipe for structural integrity, the City opted for the long-term PVC solution. In addition to providing a superior long term pressure solution, the cost of sliplining with Fusible C-905® pipe was approximately \$400,000 lower than the alternative material based on the bids submitted to the City.

Howell Contractors of Ft. Wright, KY installed the 20" Fusible C-905® pipe into the existing 24" water transmission main and completed all reconnections.

Pipeline Details and Project Summary

Project:	City of Hamilton Slipline Project
Location:	Hamilton, OH
Length:	4,500 LF
Pipe size:	20" DR25 Fusible C-905®
Installation:	Slipline
UGSI Contact:	Chet Allen (724) 321-1514 (callen@undergroundsolutions.com)



Jim Collins, with the City of Hamilton, stated: "Sliplining with Fusible PVC™ pipe saved us considerable time and money on this emergency replacement project. Howell Contractors and Underground Solutions kept the project on schedule and within budget. We will definitely be considering Fusible PVC™ pipe for future projects."

Paul Bricking, VP of Howell Contractors, led the project. Upon completion, Bricking commented: "The UGSI team and its technology performed very well. They were on time and the quality of their work was outstanding. We were able to achieve a single uphill pull of 2,100 feet of 20-inch Fusible PVC™ pipe, which saved us considerable time and money by not having to dig extra pits in the highway. We'll look for additional opportunities to work with UGSI and Fusible PVC™ pipe in the future."

Underground Solutions (UGSI) provides infrastructure technologies for water/wastewater applications. UGSI's Fusible PVC™ products, including Fusible C-900®, Fusible C-905® and FPVC™, contain a proprietary PVC formulation that, when combined with UGSI's patented fusion process, results in a monolithic, fully-restrained, gasket-free, leak-free piping system. UGSI's Duraliner™ is a patented, close-fit pipeline renewal system creating a stand-alone structural liner.