

TIDEWATER USES FUSIBLE PVC® PIPE AND TRENCHLESS TECHNOLOGIES

Lowering cost, easing ongoing maintenance, and increasing system durability

Overview

Delaware, known as “The First State,” is well regarded for beautiful beaches, clean rivers, Dover Speedway and the famed Firefly Music Festival, among other attractions. The state has led the northeast in growth over the past decades and most of that growth has come in the southern county of Sussex. Founded in 1964, Tidewater Utilities, Inc. (TUI) was the first private water utility provider in Southern Delaware. TUI was acquired in 1992 by Middlesex Water Company (NASDAQ: MSEX). Together, they have established a standard of service to water customers in Delaware and New Jersey that is second to none. Currently serving over 42,000 homes and businesses as well as Dover Air Force Base, TUI has established itself as a premier water utility in the mid-Atlantic.

Thanks to the famous beaches of the Delaware coast, installing water and sewer lines in the summer months is extremely sensitive when crossing major thoroughfares. The Delaware Department of Transportation, DELDOT, will not allow open-cut across roads in most instances to avoid disrupting tourists and vacationers. Therefore, trenchless solutions, which frequently use horizontal directional drilling (HDD), are necessary when new water and wastewater lines are constructed. Additionally, the DELMARVA Peninsula is full of pristine wetlands and creeks, and crossing these obstacles requires trenchless options to mitigate potential effects to the environment. For its water and wastewater systems, TUI prefers to use PVC pipe for its advantageous cost, durability, installation and maintenance value. When Fusible PVC® pipe, from Underground Solutions, became a viable option for HDD, it was an obvious fit for road, creek and wetlands crossings.

TUI has done a number of notable trenchless projects with Fusible PVC® pipe and trenchless applications, including sizable crossings and large amounts of installed product. Tidewater Utilities looks forward to another half century of successful water management for its customers and Fusible PVC® pipe will continue to be a partner in those endeavors.



Noteable Tidewater Utilities Projects Using Fusible PVC® Pipe

	Diameter	DR	Length
Bay Colony Fire Protection	6-inch	18	3,015 feet
East Ridge Lake Shore Interconnect	12-inch	18	495 feet
Jim Town Road Water Main	8-inch	18	495 feet
Sweetbriar Water Main	6-inch	18	495 feet
Rehobeth Beach	10-inch	18	920 feet
Sussex East	6-inch	18	12,200 feet

“Fusible PVC® pipe allows us to use a smaller borehole and faster pullbacks for a less costly installation overall.”

*Gareth Morrissey, Project Manager
Melcar Underground*



Fusion joining assembly of the Rehobeth Beach Waterline



“Our standard trenched pipe is PVC, so utilizing Fusible PVC® pipe for trenchless work appealed to us. Transitioning is easier, service line installation is easier and the overall cost is very comparable to HDPE. We’ve had many successful installations in the past few years.”

*Greg Coury, Project Manager
Tidewater Utilities*

Underground Solutions, Inc. provides infrastructure technologies for water, wastewater and power cable conduit applications. Underground Solutions’ Fusible PVC® pipe products, including Fusible C-900® pipe and FPVC® pipe, utilize patented technology to produce a fused monolithic, fully-restrained, gasket-free, leak-free piping system ideal for trenchless (horizontal directional drilling, pipe bursting and sliplining) or conventional “open-cut” installations and are available in 4-inch to 36-inch diameters. The combination of standard fittings and lower weight with higher flow for a given pressure class versus other thermoplastic pipes ensures that Fusible PVC® pipe brings greater economy to most pipeline projects.



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