

PIPELINE

POLYETHYLENE PIPE AND FITTING
 HDPE FABRICATION
 CULVERT LINERS
 DUAL CONTAINMENT PIPING

ISCO Acquires the U.S. Business of Buttress-Loc

ISCO recently purchased the Buttress-Loc Product Line from Duratron International. Buttress-Loc is a patented method for joining HDPE pipe for the use of slip-lining existing pipelines. Buttress-Loc is primarily used for the trenchless rehabilitation of sanitary sewers, highway culverts, dams, and other industrial pipelines. The patented Buttress-Loc joint and installation system enables for the rehabilitation of failing pipelines without the need of costly excavation.

"Buttress-Loc is a great addition to the ISCO Product Mix," says Jimmy Kirchdorfer, Jr. "It compliments our Snap-Tite Product in the culvert lining market, and Buttress-Loc's joining system also opens up the market for sewer rehabilitation."

Like Snap-Tite, Buttress-Loc is fast to install without a lot of special training or equipment required. Its unique 'buttress' threads provide for easily joined HDPE pipe with excellent pressure capability, tensile strength, and watertight seals. Short lengths of pipe, lowered down a manhole one at a time, are fastened together using a chain wrench. An end protector plate is attached for hydraulically pushing or winching completed sections further into the sewer from manhole to manhole. This routine is carried out until the entire pipe insertion is finished.

CONSIDER THE ADVANTAGES

- No costly restoration or excavation
- Lengths ranging from 2 to 50 feet
- No traffic diversions
- No interruption of service
- Better flow and chemical resistance
- Eliminates infiltration and exfiltration problems



For more information about Buttress-Loc, call ISCO at 1-800-345-ISCO.

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DRISCOPIPE AND PLEXCO HAVE MERGED

As of July 1, 2000, Phillips Petroleum Co. and Chevron Corp. have combined their Chemical and Plastics businesses into a new 50/50 joint venture that is now called Chevron Phillips Chemical Company, LLC.

With \$6 billion in assets and 6,000 employees, Chevron Phillips has become one of the largest petrochemical companies in the world. This merger also will provide the new company the No. 1 position in North American HDPE Capacity.

Phillips' Driscopipe division, and Chevron's Plexco unit, when combined in the near future will account for more than 50% of smooth-wall HDPE pipe sold in the U.S. market.



ISCO Industries, LLC is in perfect position to help our customers benefit as a result of this merger. ISCO continues to be the largest Driscopipe distributor for the Industrial and Municipal in the Midwest and Southeastern U.S. This merger will allow us more capacity to pull from, and more locations where the pipe can be manufactured and shipped from.

Snap-Tite® Is a Perfect Fit for Appalachian Culvert Rehab

Shenandoah National Park in Shenandoah, VA, and the Federal Highway Administration (FHWA) recently completed a culvert rehabilitation project using Snap-Tite™ from ISCO Industries, LLC. The scope



of the rehabilitation project included 56 decaying corrugated metal culverts with inside diameters ranging from 18-inches to 36-inches, a total of 4,800 linear feet.

This project was unusual because traversing the Appalachian Mountains required installing pipe on slopes as steep as 60 degrees. Such limited working areas further heightened the advantages of the

Snap-Tite system, as 10 foot sections were used to ease installation and preserve the existing landscapes.

The Park's objective was to rehabilitate these culverts without damage to the environment and to save money. According to the cost study conducted by Shenandoah National Park and JSI, using Snap-Tite will result in a cost saving of \$200,000.

"This is an ideal solution for the Park system," says Jeff Stack, co-owner of JSI. "The customer is getting all the

advantages of Snap-Tite – a better, stronger, longer-lasting pipe – in a cost-effective package."

In addition to ease of installation and the watertight performance of the joints, the physical characteristics of the pipe offer many advantages:

- Snap-Tite is made from HDPE pipe, and weighs 70 to 90 percent less than concrete, cast-iron, or steel pipe of the same dimension, which facilitates material handling on the job site.
- The extremely smooth inside surface of Snap-Tite delivers excellent flow capacity. In many applications, the Snap-Tite liner will handle greater flow than the existing concrete or corrugated metal being rehabilitated.
- Snap-Tite demonstrates outstanding resistance to chemicals and corrosion. In addition, it is extremely durable and resistant to abrasion.



THE "HEAT IS ON" IN GEOTHERMAL APPLICATIONS

ISCO Industries, LLC is proud to announce we have on staff an Accredited Ground Source Pump Professional. This, in combination with Driscopipe's 5300 Series HDPE pipe & fittings, which offers a 25-year limited warranty, makes an excellent combination to help in this fast growing market.

In a typical Geothermal application, HDPE pipe is drilled vertically into the ground in a closed-loop system, which transfers the heat from the earth to schools, hospitals, and other institutions. ISCO Industries, LLC also has the fabrication capabilities to supply HDPE valve boxes utilized in the Geothermal market. Put us to work on your next project.

SNAP-TITE'S TYPICAL INSTALLATION

Ease of installation is one key to Snap-Tite's many advantages over culvert replacements. In fact, several studies have shown that the largest expense item with culvert repair projects is not the pipe itself but the installation, maintenance, road repair, and liability costs. The Snap-Tite system saves on labor costs by eliminating the time-consuming process of cutting and repairing roads. There's no need for specialized equipment or special training, so costly equipment rentals and additional labor also are eliminated.

Once the old culvert is flushed and inspected to ensure that a liner pipe can be inserted without any obstructions, a four-person crew can easily rehabilitate a single 80-foot culvert using only shovels, a backhoe, and come-along chains.

Precision machining of the joint component on the ends of the of PE 3408 HDPE pipe creates a system of grooves. Out in the field, the pipe sections are properly aligned and "locked" in place to create watertight seals.

ISCO Becomes Sales Representative for EPG Companies, Inc.

EPG Companies, a manufacturer of pump and control systems for landfill applications, recently decided to bring ISCO Industries, LLC on board as one of their independent sales representatives. The EPG SurePump provides superior performance for both horizontal side slope riser and vertical sump applications. PumpMaster control panels are custom designed and available with a multitude of options.

Typical uses are in landfill collection, leachate recirculation, environmental remediation equipment, thermal oxidizers for off-gas treatment, and industrial process control systems. This product line further enhances our involvement within the landfill industry, so call (800) 345-ISCO to find out what we can do to help.



“Pipe Bursting” Project Takes Place in Northern Suburbs

Warren — Michigan’s third largest city is replacing a watermain in the city’s south end. The \$1.8 million project, covering 32 city blocks, is unique because it employs the relatively new (to North America) technique of “pipe bursting.”

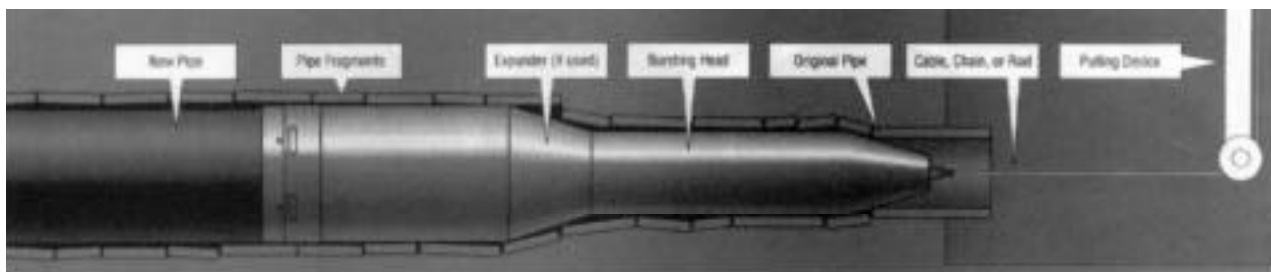
Todd Schaedig, a City of Warren engineer, explained that the project “is replacing an old watermain that has been giving us a lot

The project south of 10 Mile Road replaces 6,800 feet of 6-inch-diameter cast iron watermain with 8-inch-diameter polyethylene watermain. Schaedig credits Troy Freed of SOS Services Group Inc., Bright, the project’s general contractor, with getting the city to “take a big leap” in terms of utilizing the new process.

Freed is a former employee of T.T. Technologies of Aurora, Ill., a subsidiary of Tracto-Technik of Lennestadt, Germany, the developer of pipe bursting approximately 18 years ago. Freed said that the pipe bursting process came to North America approximately eight years ago and “has taken a lot of education and planting the seeds here in the United States.” The old pipes in Warren were constructed in a 1930’s style, “and selection of tooling is critical in order to do the pipe bursting,” said Freed.

and 45 minutes to complete. Variables that must be considered before doing the burst include the types of soils, ground depth, what the existing pipe is made of and ground water. As the burst proceeds, the old existing pipe is broken away and a new one put in behind it. Depending on ground conditions, the diameter of the existing line can be upgraded several sizes if necessary.

“This will enable City of Warren workers to make repairs more easily if necessary in the future,” said Freed. Other key personnel on the project were City Inspector Al Renie; Harold Huber, who served as project supervisor for the SOS Service Group; and Richard Doherty, chief engineer for the City of Warren. Equipment used on the project included a Daewoo Solar 220 excavator for excavation, a Takeuchi excavator, a T.T. Technology 8-1/2-inch pneumatic burster



of problems. A lot of disruption occurs when it breaks, so a pipe is needed that will upgrade the system.”

The average depth of a pipe, burst on an existing watermain section is about 5 feet; one pipe burst normally takes between 19

called a “Hercules,” a 10-ton Grundo-Winch and a 12-inch Gigant pneumatic burster.