

## NEWS

### **NASSCO's PACP sets industry standard in Quebec Province**

NASSCO has signed a memorandum of understanding with the Center for Expertise and Research on Infrastructures in Urban Areas (CERIU) to make NASSCO's Pipeline Assessment and Certification Program (PACP) the new industry standard in Quebec Province, Canada.

NASSCO's PACP is a system that provides standardization and consistency in the way sewer pipes are evaluated, coded and managed. Recognized as the industry standard in North America since 2001, PACP creates a comprehensive and reliable reservoir of data to describe the sewer pipe that can be used in prioritization, planning and renovation of the wastewater collection system.

"Our vision of creating a standard not just for the U.S., but for North America is becoming more and more of a reality," said Irvin Gemora, executive director of NASSCO. "We've proven that PACP works and our

success is getting noticed. We're thrilled to work with CERIU to help make PACP the standard throughout the Quebec Province. Hopefully, this agreement will demonstrate the value of using a single standard for defect coding and eventually to PACP becoming the defect coding standard for Canada."

A survey conducted in 2006 by CERIU found discrepancies in the way sewer systems were evaluated and inspected. A lack of consistency led some to classify a defect in a pipe as a crack while others labeled it a fracture, making it difficult for professionals to establish a protocol for successful assessment and rehabilitation. As a result, CERIU established a committee composed of city representatives and closed-circuit television (CCTV) inspection professionals to discuss the issue. Together, the group adopted the NASSCO protocols for mains, laterals and manholes.

"By implementing NASSCO's proven standard protocol, Quebec professionals will be able to create, exchange and integrate their reports on common rules and codification objectives, enabling more effective rehabilitations," said Isabel Tardif, Technologies Director, CERIU. "This will

enable our city managers to excel in asset management and improve our entire infrastructure renewal process."

In addition to standardizing the evaluation of sewer pipes and standardizing TV inspection codes, NASSCO's PACP also includes user certification, tools for data integration and mapping. NASSCO offers PACP training throughout the year across the United States. To see a complete schedule of PACP and other training and education courses available from NASSCO, visit [www.nassco.org](http://www.nassco.org) or call Andrea Carter at (410) 486-3500.

### **Fusible C-905 Pipe rehabilitates water transmission line in California**

In March 2008, Underground Solutions (UGSI) contracted with Lewis and Tibbitts to provide UGSI's Fusible C-905 pipe and fusion services for the slipline rehabilitation of a failing steel water main in Santa Cruz, CA. The project, completed in May 2008, is the fifth in a series of successful slipline rehabilitation projects performed in the Northern California area using Fusible PVC pipe.

In February 2008, the city of Santa Cruz advertised the project for bid, requiring 2,000 linear feet of 18-inch ID pipe to be sliplined into the existing 24-inch steel pipeline. Fusible C-905 pipe and HDPE were specified as suitable materials for the project. Because of its higher strength-to-weight ratio, Fusible C-905 pipe was able to meet the 18-inch ID requirement using an 18-inch DIPS size pipe, while HDPE was required to upsize to 20-inch DIPS to provide an equal ID and pressure class.

Bid documents required contractors to select their pipeline material on bid day based on lowest overall installed cost. Six of the eight bidding contractors submitted bids based on Fusible C-905 pipe as their lowest cost option. The difference between the low bidder, who chose Fusible C-905 pipe, and the lowest bidder selecting HDPE was \$153,000, an 18 percent difference.

Douglas Valby, P.E., civil engineer with the city of Santa Cruz, said: "We are very happy with Fusible PVC and will use this pipe for future projects in the city of Santa Cruz."

Eddie Renshaw, vice president of Lewis and Tibbitts, stated: "Underground Solutions has a great pipe product that is very easy to work with, especially in sliplining. We were very happy with the support we received from Underground Solutions in the field during pipe fusion and installation."

### **Geospatial Holdings announces pipeline rehab contracts**

Geospatial Holdings Inc. has announced the formation of Geospatial Pipeline Services LLC, a wholly-owned subsidiary formed to integrate its Smart Probe Pipeline Mapping Technologies with various state-of-the-art trenchless pipeline rehabilitation methods. The company also announced the signing of two contracts by Geospatial Pipeline Services LLC.

The first project in the amount of \$614,705 is with Capitol Paving Inc. of Washington, DC, to evaluate and rehabilitate a 75- to 100-year old brick tunnel below Benning Road in Washington, DC. The work by Capitol Paving is being performed jointly for the DC Department of Public Works and DC WASA (DC Water and Sewer Authority).

The second project, for \$60,192 is with Rustler Construction Company of Lanham, MD, to evaluate and reline an existing 24-inch concrete storm water line.

Mark A. Smith, Geospatial's CEO stated, "The ability of our Pipeline Services group to utilize our Smart Probe Mapping Technologies to accurately map the interior geometry of the pipeline to determine its

precise bending radius and centerline allows us to better determine the proper rehabilitation methods to be used."

The company has hired Tim Nippes, former founder and president of Mid-Atlantic Pipe Services Inc. of College Park, MD, as the new president of Geospatial Pipeline Services.

Nippes stated, "I have been involved in the construction and pipeline rehabilitation in-

dustry for 40 years, and I have never seen a more exciting technology than Geospatial's Smart Probe. For the first time, we can actually understand what is happening inside of a pipeline before we have to determine how to fix it. Unlike a video camera, our Smart Probes give us a three-dimensional, spatially correct view of the interior of the pipeline and also places that pipeline (again in 3-D) in its exact location underground." ■

## HOBAS Pipe Used In Utah Sewer Expansion

The population of Utah has been growing recently and this trend is projected to continue well into the future. The South Valley Sewer District (SVSD), which includes approximately the southern third of Salt Lake County, serves Bluffdale, Copperton, Draper, Herriman, Riverton, South Jordan and South Sandy. It is investing roughly \$3 million in its infrastructure. District municipalities reportedly include more than 4,400 building lots that are not yet connected to the existing system. These lots will require more than 1½ million gallons per day (mgd) of additional capacity.

To handle the growing loads in southern Salt Lake County, relief lines and new facilities, including a wastewater treatment plant, are being designed and constructed. Since March 2002, SVSD officials have been seeking approval for an ultra-filtration treatment plant to be located in Riverton that will enable them to keep pace and provide enough capacity for the next 10 to 15 years.

When it's completed, the Riverton facility will add 15 mgd to the district's treatment capacity, with potential for more upon future expansion. The sewer district will keep its 13.2 mgd at the existing South Valley Water Reclamation Facility (SVWRF), which is currently under expansion. When the SVWRF plant expansion is complete in two years, the SVSD will acquire an additional three mgd.

Additional piping networks are necessary to ensure that sewage can be transported to the existing treatment facility until the new plant is complete. One of the most recent projects was the Jordan River Outfall Sewer. This new line's primary purpose was to mitigate the capacity problems with the existing 48-inch line that has been in operation since the early 1980s. "The (Jordan River) project included approximately 4,000 feet of 48-inch HOBAS pipe and 16 seven-foot manholes. It is one of the district's main outfall lines to the treatment facility and the district put the project out to bid in January of 2007," explained Michael H. Foerster, P.E., district engineer with SVSD.

Bowen, Collins & Associates of Draper, UT, specialist in providing water, wastewater, storm water, groundwater, civil engineering and environmental services to clients in the Intermountain West, was hired to design the outfall. Allied Construction and Development Inc. of Logan was awarded the bid to install the pipe.

Both direct bury and boring was included in the installation. Hobas centrifugally cast, fiberglass-reinforced, polymer mortar (CCFRPM) pipe was specified. "The use of HOBAS pipe on this particular project was determined and required by the South Valley Sewer District. We had installed 24-inch HOBAS pipe on another project about 1½ years earlier for Cottonwood Improvement District in Cottonwood Heights, UT. The Jordan River Project was mostly direct bury with several installations of Hobas through steel casings. On both occasions, the pipe installed well and had no problems with visible deflection and joint leakage," said Bart

LaMont, project manager, Allied Construction and Development.

The direct bury portion of the project ranged from 15 to 30 feet in depth and was installed primarily through good, clean, sandy material. The embedment specified and utilized was one-inch minus stone with filter fabric to prevent migration of native soil into the embedment zone. "We worked with the Hobas engineering staff to help us specify the appropriate pipe stiffness rating based on depth and soil conditions. They also provided us the appropriate pipe zone backfill specification requirements," stated Brent Packer, P.E., design engineer, Bowen, Collins & Associates.

The Jordan River project required additional planning because of the extensive groundwater that was present. "The project is in an area of high ground water and has experienced some hydrogen sulfide (H<sub>2</sub>S) degradation of the existing concrete pipe and thus chose Hobas for its H<sub>2</sub>S resistance and water tightness," said Foerster.

The pipe used in this project has an SN of 46, which is standard for direct bury and tunneling applications. This high stiffness allows for routine burying methods with predictable performance that can handle deep covers.

Hobas push-together FWC couplings were utilized for the Jordan River project installation. The couplings were factory assembled to one end of each pipe for ease of use in the field. The sealing design includes both lip and compression elements so the joint is suitable for both non-pressure and pressure service.

**For more information:**  
HOBAS, (800) 856-7473, [hobaspipe.com](http://hobaspipe.com)



## Suncoast Infrastructure Celebrates 10 Years

Suncoast Infrastructure Inc. prides itself as a niche player in the trenchless rehabilitation market. This privately-held company is now celebrating 10 years of service in the Southeast.

It is one of the premier full service providers of manhole, wetwell and pipeline evaluation, rehabilitation, protective coatings and liners for all aspects of a sewer collection system. Suncoast's contractor services include: trenchless sewer rehabilitation, trenchless service repair and lining, cured-

in-place pipe (CIPP), Sanitary Sewer Evaluation Services (SSES), closed circuit TV (CCTV) sewer inspection, pipeline renewal, pipeline inspection and cleaning, small diameter lining and liner point repair.

Strategically located in Florence, MS, outside of Jackson in the Metropolitan area, Suncoast is only a day's drive to any of its customers in the Southeast region. It serves the territories of Mississippi, Louisiana, Arkansas, Texas, Tennessee, Alabama and the Florida Panhandle.

Suncoast serves the needs of municipalities, engineering firms, military bases, industrial accounts, and private businesses that maintain sanitary and storm sewer systems.

Suncoast's wide range of service starts with an evaluation of the existing sanitary or storm sewer system. The company employs smoke testing, cleaning, CCTV, flow monitoring and GPS mapping to provide accurate, detailed reports of the system. Trained staff will then recommend rehabili-

tation or replacement options that will best suit the project needs and budget. Product offerings include Perma-Liner CIPP - small diameter, lateral lining, trenchless point repairs or vertical pipes, Suncoast Liner 6 to 108-inch CIPP, Warren Environmental System 100 percent solids epoxy, and the Multiplexx CIPM (cured-in-place manhole) fiberglass liner system by Terre Hill Composites.

Suncoast offers a complete range of construction services to help restore the current sewer system and protect investments in new structures. These improvements can drastically reduce the groundwater infiltrating the system and overloading the pump stations and treatment plants.

Camp Shelby Military Base, MS, was a satisfied customer when Suncoast finished a sanitary sewer project for the base consisting of cleaning and inspecting over 50,000 linear feet of sanitary sewer pipe in diameters of 6 to 24 inch to evaluate I/I problems in the cantonment area. More than half the area was rehabilitated with Suncoast Liner and over 3,600 vertical feet of manhole rehab was performed on the mainline. Following the completion of the project, data produced by the Military Department of the



State of Mississippi depicted flows into the treatment plant were cut in half while rainfall and troop density generally remained at normal levels.

"We attribute the success of the company to the way we do business," says Richard Rula, president of Suncoast Infrastructure. "Suncoast believes in maintaining close relationships with its customers. We pride

ourselves on being a one-stop source for our customers. They don't have to go to another source to get answers or to get another service or product to get the job done; Suncoast can service all their needs from start to finish."

**For more information:**

Suncoast Infrastructure, (800) 746-4841, [suncoastinfrastructure.com](http://suncoastinfrastructure.com)