

Sewer Rehabilitation

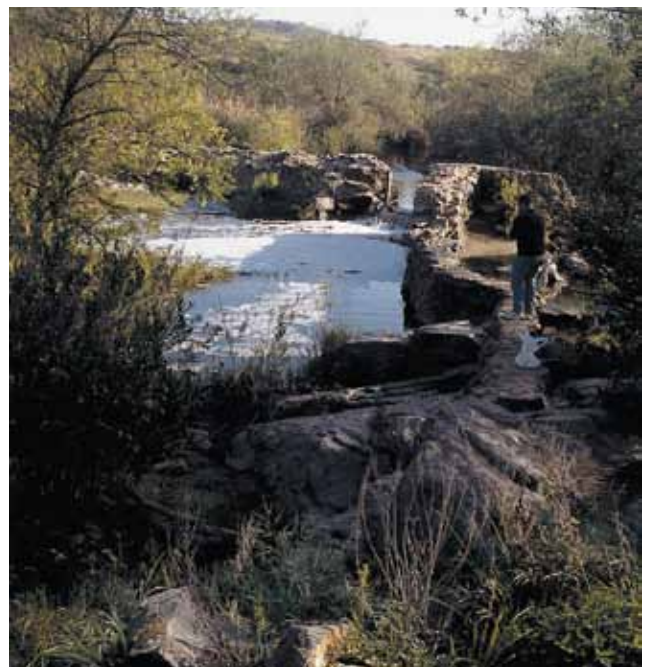
Market Segment:	Sewer Rehabilitation
Composite Application:	CIPP
Manufacturing Process:	Cured-in-place pipe
Diameters:	36 to 42 in. (914 to 1,067 mm)
Longest Single Tube Inversion:	2,800 ft (855 m)
Installed:	1997-1998
Location:	San Diego, CA, USA

After more than 25 years, a concrete sewer pipeline serving San Diego, California, USA, was starting to crumble. About 7 miles (11 km) of the line run through Mission Trails Park, an area settled by missionaries from Spain in the early 1800s.

To protect the park's archeological sites, beautiful scenery and wildlife habitat, engineers decided not to remove and replace the old pipe. Digging a trench to access the old pipe would be difficult and costly.

The solution comes from Insituform Technologies®, Inc., St. Louis, Missouri, the world's largest and oldest provider of "trenchless" pipe rehabilitation. Work had to be suspended during the mating and nesting season for the least Bell's vireo and California gnatcatcher, endangered bird species which inhabit Mission Trails Park.

Insituform used its proprietary felt tube with an isophthalic polyester resin from AOC to restore the



Sewer Rehabilitation, continued

the structural integrity of existing pipe. The cured resin encapsulates the felt to form a new pipe within the existing pipe structure. Because the new pipe interior is seamless and has a resin-rich surface, flow capacity is higher than the original pipe. An AOC custom formulation meets the corrosion resistance provisions of ASTM F1216, the standard for cured-in-place pipe. The formulation also meets requirements for extended pot life and good processability.

About AOC

AOC is a leading global supplier of resins, gelcoats, colorants, additives and synergistic systems for composites and cast polymers. AOC knows technology, lives quality and delivers service better than any other supplier. For more information, e-mail CIPP@aoc-resins.com, phone (901) 854-2800 or go to www.CippResins.com or AOC-RESINS.com.

