CASE STUDY

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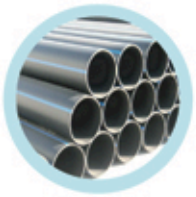

CAVELAND, KY **CASE STUDY**

LOCATION: Caveland, KY

PROJECT SCOPE: Mammoth Cave switches to high-density polyethylene (HDPE) pipe for sewer force main, fire protection and potable water

APPLICATION: Sewer force main: total of nine miles of HDPE pipe
Fire protection: used 12” HDPE pipe
Potable water: used 6” HDPE pipe

PROJECT DATES: Projects started in 1988

KEY CONTACTS: David Peterson, CEO - Caveland Environmental Authority
ISCO Industries

SUMMARY

Nearly 600,000 people visit Mammoth Cave in central Kentucky every year. It is the state’s most popular tourist attraction, and its pride and joy as well. Mammoth Cave National Park was designed in order to preserve the 350 miles of beloved subterranean passageways as well as the surrounding rivers. With a cast iron pipe system in place since 1948, preservation was reaching a critical point.

With the old and corroding cast iron pipe system, Mammoth Cave National Park was experiencing 60-70% water loss on a daily basis. In 1988, ISCO industries supplied the Caveland Environmental Authority with 9-miles of HDPE pipe for a sewer force main. It couldn’t have worked out better.

In fact, it worked so well the Caveland Environmental Authority CEO David Peterson wanted to use it again. The park ended up using 12” HDPE for the fire protection system and 6” HDPE for potable water to the visitor’s center, park hotel, and even permanent homes in the surrounding area. The greatest challenge was supplying water to the Crystal Dining Room 160 feet under the ground without disturbing the local environment and in time for the tourist season. It went off without a hitch.

HDPE pipe is the select choice of Caveland and will keep Mammoth National Park running for years to to come.

Please do not hesitate to contact the Alliance with any questions or comments.
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