

Environmental – Case Study 2



Problem

Severe infiltration of lake-to-lake equalizer control pipe



Project

Rehabilitation of lake-to-lake equalizer control pipe



Client

Georgia Department of Natural Resources



Location

Tifton, Georgia

Description

Vertical overflow control pipe structure is located approximately 18 feet inside the lake in Tifton, GA with problems of deterioration and infiltration. Infiltration was impossible to stop with cement or chemical grout. Numerous attempts had been made to solve the problem, with no success.

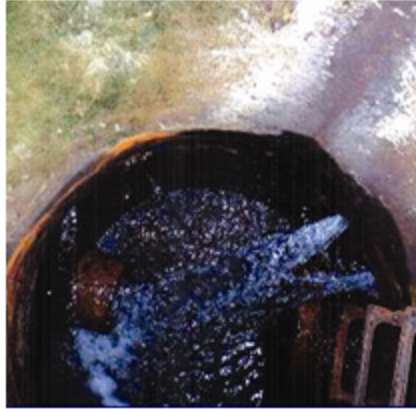
Solution

Working from a barge, the Poly-Triplex Liner was installed. The liner was inflated with air pressure sufficient to hold back the hydrostatic head pressure until the liner was cured-in-place and bonded to the host structure. Installation was complete, start to finish, in one day.

The Poly-Triplex Liner completely stopped the infiltration and ex-filtration as well as further deterioration.

Benefit

This method of repair resulted in considerable cost savings over other methods of construction, as other repair methods previously attempted were unsuccessful.



Upper Left: Photo of severe infiltration of lake water flooding through the wall of this structure.

Upper Right: Photo of the Poly-Triplex Liner being cured in place 18 feet out into the lake.

Comments

Poly-Triplex provided a more permanent solution than new construction and provided a 10-year warranty. All leaks into the structure are stopped and the structure is function normally. Poly-Triplex provided a 10-year materials and labor warranty. Numerous structures have been lined to date for the DNR.