



Raccoon Creek Water Treatment Plant

Summerville, Georgia, USA



Products
**CONCENTRATE, MODIFIED,
MEGAMIX I & II, FCM 80**

Project Type
**WASTEWATER COLLECTION
& TREATMENT**



306,000 lbs. of Xypex [Megamix II](#) were used to rehabilitate the Raccoon Creek Water Treatment Plant in Summerville, GA. An engineering study determined that the superior bonding, chemical durability, and high strength of Megamix II would completely repair the structure's deteriorated concrete and bring it up to EPA standards. The rehabilitation option was good economic news; its cost of \$ 1.25 million was obviously preferred to the estimated \$ 25 million to fully replace the structure.

This 50-year-old WTP was in fact so deteriorated because of years of chemical attack, it was questionable as to whether repair, instead of full replacement, was even possible especially in light of the ever-higher environmental demands. The engineering study was therefore necessary and Xypex Megamix II was deemed the preferred option. Scheduling

was an issue because the communities surrounding this facility (which processes 6 million gallons of water per day) were dependent on its continuous operation. Megamix II made this possible, facilitating a three-phase construction schedule that enabled reconstruction without interrupting the water treatment process. Megamix II was used specifically on the flocculation tanks and sedimentation basins. Xypex [Megamix I](#) and [Concentrate](#) were used on the exposed exterior walls and on the interior surfaces of the filter tanks. Xypex [Concentrate](#) and [Modified](#) were applied to the vertical surfaces and soffits of the numerous walkways and Xypex [FCM 80](#) was applied to the top surface of walkways separating the individual tanks.