



## Riverside Water Treatment Plant

Gainesville, Georgia



### FCM 80 Walkway Surface Rehabilitation – 30 Month Review

This project commenced late in 2015. The scope of work included repair and resurfacing of the interior and exterior of the sedimentation basins, filters and flocculation basins. Included in the scope of work was coating the non-air entrained concrete top surfaces of walkways and beams using Xypex **Concentrate** and **FCM 80** to protect these horizontal elements from water ingress, chemical exposure and potential freeze thaw damage.

This report reviews the performance of the Xypex Concentrate / FCM 80 that was applied approximately 2.5 to 3 years prior to the site inspection.

The Xypex FCM 80 has performed well and has provided a waterproof and slip resistant surface on the horizontal elements. The FCM 80 material was applied by trowel (stainless steel pool trowels were utilized reducing the tearing of the surface) 12 - 24 hours after installation of a 2 pounds per square yard coat of Xypex Concentrate. After 2.5 years the materials are exhibiting excellent wear and physical properties with no sign of delamination, crazing or cracking of the applied materials.

The owners report that the non-slip properties of the FCM 80 provides additional safety as a walking surface for plant personnel while providing waterproofing of horizontal elements. Immediately after installation there were some areas of discoloration on the surface of the FCM 80 caused by rain or humidity creating pooling water on the newly applied material. These areas no longer exhibit this discoloration and the material aesthetics and appearance are now uniform. The owner noted that the operators find surface comfortable underfoot to walk on and are they are very pleased with the performance to date.

The use of FCM 80 as a pedestrian coating system has merit as part of an overall protective and waterproofing approach to horizontal surfaces and should be considered on future projects involving water and wastewater treatment plants and areas where pedestrian traffic is expected. FCM 80 has now shown on both the Raccoon Creek Project in Summer-ville, Georgia, and here at the Riverside WTP to be an effective approach for waterproofing and providing a non-slip surface as part of a comprehensive strategy addressing the repair and restoration of water and wastewater plants.