



Project Summary

Expanding the wet weather treatment capacity by enlarging existing plant facilities has been a cornerstone in the Allegheny County Sanitary Authority's (ALCOSAN) strategy for reducing sewer overflows for over the past 25 years. This stormwater runoff has been one of Pittsburgh's most intractable problems.

ALCOSAN's \$2 billion Clean Water Plan includes building the new East Headworks facility as part of the current ALCOSAN Plant Expansion Program. The expanded plant will increase the facility's wastewater treatment capacity from 250 MGD to 600 MGD. The contractor drilled over 1,900 auger cast piles into the bedrock to serve as the foundation for the East Headworks facility.

The engineer for the project desired to enhance the performance of concrete in service and reduce potential cracking due to shrinkage or restraint on the project during the design stage.

As much of the structures contain wastewater and thus need to be watertight, the engineer specified Sika Control NS as a basis of design Shrinkage Reducing Compensating Admixture for the concrete. Premier Magnesia produces the product, Sika Control NS, under a private label agreement for Sika.

Engineer: Whitman, Requardt & Associates, LLP
Construction Manager: Michael Baker International
General Contractor: PJ Dick
Ready-Mix Supplier: Castle Builders Supply