



Dresden Wastewater Treatment Plant Upgrade

Dresden, Ohio, USA



Completion Date
SEPT 2020

Owner
CITY OF DRESDEN

Engineer
CT CONSULTANTS

Contractor
STANLEY MILLER

Ready Mix Supplier
ADAM BROS CONCRETE

Project Type
**WASTEWATER
TREATMENT PLANT**

Products
BIO-SAN C500

As part of an expansion and upgrade of the Dresden WWTP installation of a new Wastewater Oxidation Ditch Tank was deemed necessary for the processing and lowering of the biological solids in the waste stream. This project involves construction of the Wastewater Oxidation Ditch Tank consisting of an outside tank with 3 interior channels.

The tank is oblong with outside dimensions measuring 70' x 96' and it is 14' in depth. The exterior walls, as well as, the interior channel walls are constructed of 12" cast in place concrete. Xypex Bio-San C500 has been used in all walls (650 cu/yds).



The designer was concerned about protection of the concrete elements in this tank from the destructive processes associated with microbial induced corrosion. To protect against this Xypex Bio-San C500 antimicrobial admixture was chosen to be added to the concrete mix. Xypex Bio-San C500 effectively kills the acid and sulfate producing Thiobacillus bacteria responsible for this type of degradation that is commonly found in sewerage infrastructure.

