

Coldwater Creek Wastewater Treatment Plant

Metropolitan St. Louis Sewer District (MSD)

Location

St. Louis, Missouri

Construction Completion

2007

Construction Cost

\$51 million

DMA Services Provided

Architecture

Structural Engineering



The Coldwater Treatment Plant was an activated sludge plant with a rated capacity of 40 million gallons per day (MGD). The plant expanded to a secondary treatment rate of 55 MGD, and a primary treatment rate of over 100 MGD. This very large increase in flow rates required the design of a number of additional facilities for this plant, and modifications to many of the existing facilities.

Improvements included instrumentation, electrical upgrades, and site improvements. New buildings included a headworks building, a sludge and grit pump building, a maintenance building, and a blower building. Other constructed facilities included primary clarifiers, final clarifiers, sludge thickeners, selector basins and associated flow control structures ranging from valve and flowmeter vaults, to bypass and splitter structures.

David Mason & Associates provided architectural and structural design for all these new buildings and structures.

This work was performed at an extraordinary level of interdisciplinary coordination with process piping, HVAC, electrical, and support elements.

