



CASE STUDY

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Mazzei Venturi Wastewater Aeration System Installed In Alabama Field Erected Wastewater Treatment Plant

Activated Sludge Treatment in a Municipal Sewage Treatment Plant
Huntsville, AL

The Problem: A design/build contractor needed a quiet, efficient aeration system for a 250,000 GPD field erected Wastewater Treatment Plant (WWTP). This plant was to be located adjacent to a school. A restriction on ambient noise at the location of the proposed WWTP required a quiet aeration process.

The Solution: The project engineer selected a Mazzei venturi wastewater aeration system for the project, primarily due to the success he had with the Mazzei aeration design on previous projects. The aeration system consisted of dual venturi aeration modules, one for each of the two aeration tanks. Each module contained a dry-sump recirculating pump, five (5) Model 4091 injectors and a high velocity gas mixing and distribution nozzle manifold.

The Results: The venturi wastewater aeration system was placed in operation in mid-September, 2001 and is still in operation today, providing quiet and cost effective wastewater aeration with minimal maintenance costs.

To get a better understanding about how a [Mazzei venturi wastewater aeration](#) system works, take a look at [this animation](#).

