

Case Study

MAZZEI AIRJECTION[®] SYSTEM SOLVES NOISE PROBLEM FOR ALABAMA PACKAGED WWTP.

The Problem: It was necessary to locate a 75,000 GPD packaged WWTP immediately adjacent to a residential neighborhood. Because of the close proximity to residences, it was mandatory to use an aeration system which was quiet enough to permit 24 hour operation without an increase in ambient noise levels.

The Solution: The builder, a licensed engineer as well as a licensed general contractor, chose a Mazzei AirJection[®] System consisting of a submersible recirculating pump and two (2) Model 4091 (4" Kynar) Mazzei[®] Injectors, each with ten (10) N25 Mazzei Multiplier[™] Nozzles. The Mazzei AirJection[®] System replaced a blower/diffuser system of greater horsepower which had originally been specified.

The Results: The packaged WWTP was placed in service in late 1999. Except for routine maintenance, the system has been fully operational on a "24/7" basis since installation. The performance of the Mazzei AirJection[®] System has completely met the oxygen transfer requirements of the plant. An initial area of concern was whether the Mazzei AirJection[®] System would mix as well as the conventional blower/diffuser system. These concerns were proven groundless, as mixing performance has exceeded that of a comparable blower/diffuser system.

