

Background

Serving the city of Rialto, California, the Rialto Wastewater Treatment Plant must handle waste from a community of about 75,000 people.

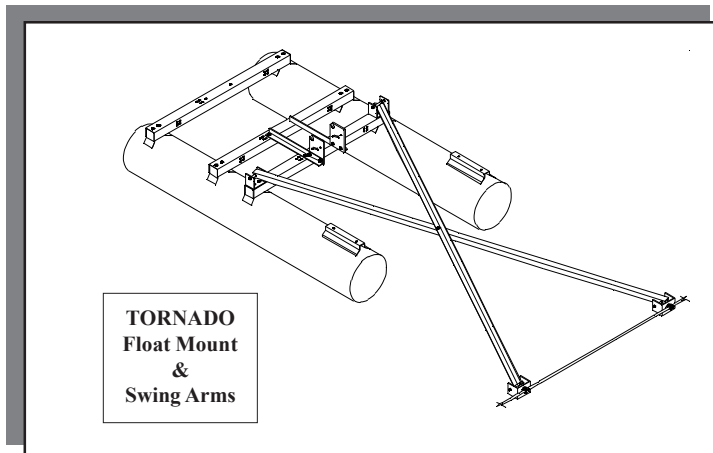
The wastewater flow rates at the Rialto plant fluctuate greatly during different times of the day and under changing weather conditions. To help handle the irregular flow the city installed an equalization basin, a popular method to regulate the flow of wastewater into a treatment plant.

The equalization basin receives the raw wastewater from the collection systems. The water is then pumped through the plant at a constant rate. As a result, the water level in the basin fluctuates greatly.

Problem

Rialto was having problems with solids settling out in the equalization basin. Odors were also a problem during certain times of the year.

Occasionally, the settled solids had to be pumped into the plant and the basins cleaned out. This required extra man hours and extra equipment. The city needed a solution to the high labor costs associated with the basin and to the occasional odor problem.



A Case Study;
AEROMIX
"Specialists in Aeration and Mixing Equipment"

Wastewater Treatment Plant Rialto, California

Solution

Two 10-horsepower TORNADO Aspirating Aerators were installed in the equalization basin to

help solve the problems. Since then basin labor costs have been eliminated.

The aerators keep the equalization basin mixed and aerated, preventing solids from settling. This passes the solids on to the plant where they belong. The wastewater is kept fresh by maintaining a

high dissolved oxygen level in the basin. The TORNADOs are also float mounted with swing

arms, allowing the aerators to rise and fall in the basin with the fluctuating water level.

By choosing AEROMIX the city saved time and money. Plus installation was easy because the TORNADOs did not require the basins to be drained.