

Project Profile

Gainesville GA Poultry Processor

edge™ Significantly Reduces Wastewater Treatment Costs

APPLICATION

One of two Dissolved Air Floation Clarifiers.

THE PROCESS

Dissolved air flotation (DAF) is a water treatment process that clarifies wastewater by the removal of suspended matter such as oil, grease or solids. The removal is achieved by dissolving air in the water or wastewater under pressure and then releasing the air at atmospheric pressure in a flotation tank or basin. The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device.

THE PROBLEM

Polymers, and coagulant are used in significant quantities to improve effluent quality and thicken sludge. Chemical costs and sludge hauling costs are very high for poultry processing operations.

CUSTOMER PROFILE

One of many poultry processing plants in Gainesville Georgia, this plant prides itself in being the most efficient with regards to the amount of water used per bird processed. Most poultry processing plants use 5 to 6 gallons of water per bird. Through innovative engineering this plant has reduced the gallons of water used per bird to three. The net result is very concentrated wastewater that requires additional chemicals to treat.

SOLUTION

Griswold Water Systems provided one 6" Edge electronic water treatment system which is treating one of two DAF Clarifiers. The Edge applies powerful energy pulses to the wastewater which promote flocculation and coagulation electronically.

EDGE RESULTS

- Reduced Polymers 50%
- Chemical savings of \$200 per day
- More stable operation
- Reduced sludge loads 2 loads / week



Twin DAF Clarifiers



Installing EDGE Reaction Chamber



EDGE Effluent

Control Effluent



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GRISWOLD WATER SYSTEMS