

# Project Profile

## Arkansas Turkey Processor

### edge™ Allows 20% Reduction in Polymers

#### APPLICATION

One Edge-800 treats 1100 GPM Dissolved Air Flotation system.

#### 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 the leading Turkey processors in the United States.

#### TREATMENT PROCESS

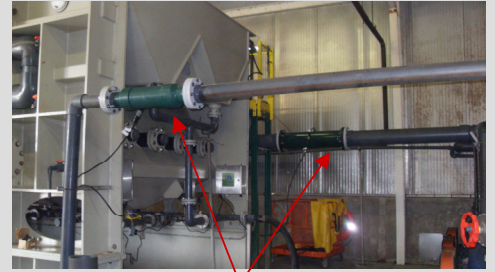
Wastewater from the equalization tank goes to a double DAF process that uses a single Cationic Polymer. Water then goes to anaerobic digester and then an aeration tank before being discharged to surface waters.

#### RESULTS

Within three days of commissioning the Edge systems polymer was reduced 20%. Effluent quality and sludge quality remained good. At the end of the 90 day trial it was decided to purchase the Edge systems based on a 1.5 year return on investment.

#### SMART INVESTMENT

An additional Edge system will be tested on the secondary DAF and the customer is interested in applying Edge technology at other locations around the country.



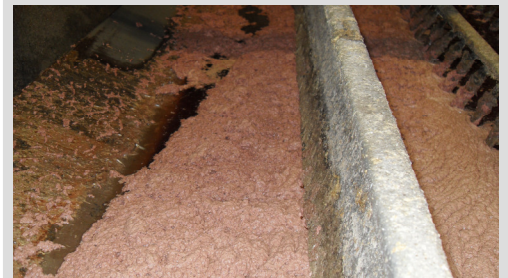
Edge-800 & Edge 400 Installed



Double DAF Process



Good Suspended Solids Removal



Excellent Sludge Quality



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GRISWOLD WATER SYSTEMS