Tidal Clear®
Water Science

Poultry Processing Plant

Industrial Report : Southeast USA : 2025

40% Sludge Reduction Results in **Cost Savings of Over $850,000 Annually**

Customer Goals

A large poultry processor in southeastern USA generated 23-27 loads of sludge per week, resulting in approximately $1.3 Million in disposal costs annually. While the plant met discharge permit levels, it was running over capacity on load and flow. Our team was invited by a corporate Environmental Manager to help develop a sustainable treatment program that outperformed incumbent chemistry while producing less sludge.

Recommended Solution

Our Chemistry	**50 ppm**
Coagulant : TideForce 316	50 ppm
Incumbent Chemistry	**150 ppm**
Polyaluminum Chloride	150 ppm

Plan & Process

Equipment : Primary DAF, EQ Tank

Flow Rate : 1.5 MGD

- Reduced sludge produced in primary DAF by using organic biopolymer and removing metal PAC.
- Higher TSS removal resulted in lesser load to EQ tank and secondary DAF.
- Less TSS going to secondary DAF resulted in reduction of ferric needed.

Results vs. Incumbent

Reduced Sludge Disposal Costs

$1.3M » $650,000 Annually

Chemical Costs

50% Reduction

Coagulant Chemistry

66% Reduction

Metal Salts Content (PAC & Ferric)

Total System Reduction

Send us a water sample or schedule a site visit today!
TidalClear.com/get-started

TideForce™ reliably cleans more water with less chemistry - making it safer, more efficient, reducing wear on machinery, and minimizing risk for human handlers.

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