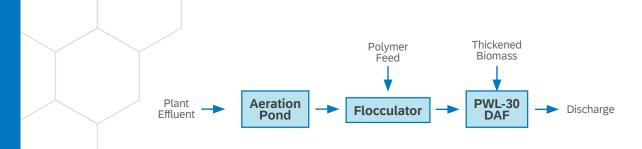
## WASTEWATER SOLUTION

# **Specialty Chemicals**





The specialty chemicals manufacturer produces a wide range of coatings, polymers, lubricants, fuel additives, and home use products. They biologically treat the plant effluent in an aeration pond using a continuous waste activated sludge process to reduce BOD.

As a result, a large volume of biomass needs to be separated in a DAF system. A flocculator with polymer dosing helps the DAF achieve a high dry solids percentage in the skimmed biomass.

	Design Parameters	Discharge Requirements
Flow	154,000 GPD	
MLSS	5000 mg/L	< 30 mg/L

#### **Equipment Supplied**

PWL-30 DAF F-3 Flocculator Pneumatic Controls Maintenance Catwalk







#### **DAF Sizing Calculations**

#### **Hydraulic Surface Loading Rate**

### **Solids Loading Rate**

= Weight of TSS in feed in lbs/hr
Free Surface Area in sqft

= 270 lbs/hr
x sqft = 3 lbs/sqft/hr

= 90 sqft required