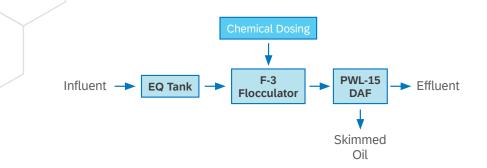
WASTEWATER SOLUTION

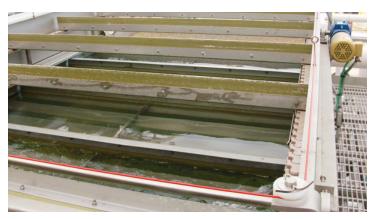
Oil & Gas Renewable Diesel Refinery





The 10,000 barrel-per-day diesel refinery processes recycled animal fat, used cooking oil, and other feedstocks into renewable diesel fuel. The wastewater treatment equipment needed on-site removes solids and recovers oils from site runoff and raw material containment areas.

The system was designed on a chemical/physical treatment process.





	Design Parameters	Discharge Requirements
Flow	80,000 GPD	
TSS	9700 mg/L	300 mg/L
FOG	7400 mg/L	100 mg/L

Source Water

Accidental Oil Contaminant (AOC) Continuous Oil Contaminant (COC)

Equipment Supplied

PWL-15 DAF System F-3 Flocculator in Stainless Steel **Chemical Dosing Equipment Pneumatic Controls Electrical Controls**

DAF Sizing Calculations

Hydraulic Surface Loading Rate

=	Feed Flow + Recycle Flow in gpm		
	Effective Surface Area in sqft		
=	56 + 22 gpm x sqft	= 1 gpm/sqft	
=	78 sqft required		

Solids Loading Rate

=	Weight of TSS in feed in lbs/hr Free Surface Area in sqft
=	$\frac{270 \text{ lbs/hr}}{\text{x sqft}} = 5 \text{ lbs/sqft/hr}$
=	54 sqft required