SECONDARY SAF®

BEFORE

- 216 FT2 OF SURFACE AREA
- AT 1.8 MGD BEFORE SAF® CONVERSION, IT COULD HANDLE 1500 MG/L INFLUENT SUSPENDED SOLIDS.

AFTER

- IT NOW HANDLES 3500 MG/L WITH NO CARRY OVER AVERAGE EFFLUENT TSS= 15MG/L
- SPECIFIED MAXIMUM FLOW @ CURRENT LOADING ~3500 GPM

HERON INNOVATORS

SIMMONS FOODS CASE STUDY

GREAT OPERATIONAL SAVINGS, BUT MORE SIGNIFICANT IS THE EFFLUENT IS NOW CLEAN ENOUGH TO USE AS RECYCLE WATER!

SECONDARY DAF TO SAF® COST COMPARISON

	DAF	SAF® CONVERSION
HORSEPOWER	*60HP Recirc Pump / $0.08 KW H $31,367 /yr	Equivalent - 10HP / $0.08 KW H $5,230 /yr
FROTHING AGENT	N/A	25 GPM Output; 1-tote / 6wks $38,780 /yr
COAGULANT	$350,000 /yr	$140,000 /yr
CATIONIC POLYMER	120lbs/day $87,600 /yr	60lbs/day $43,800 /yr
OPERATION COSTS	$468,967 /yr	$227,810 /yr
NET SAVINGS/YR		$241,157

Difficult to quantify savings associated with directly reclaiming water vs requiring additional treatment.

PRIMARY DAF TO SAF®

BEFORE

- CONVERTED DAF
- MAXED OUT AT 1250 GPM AND 2000 – 2500 MG/L INFLUENT SOLIDS

AFTER

- NOW TREATS AN ADDITIONAL 700 GPM
- SPECIFIED TO TREAT 2400 GPM
- COST EFFECTIVE WAY TO INCREASE CAPACITY

HERON INNOVATORS

SIMMONS FOODS CASE STUDY

AGAIN, GREAT OPERATIONAL SAVINGS, BUT MORE SIGNIFICANT IS THE INCREASED FLOW CAPACITY WHICH AVOIDED ADDITIONAL PROJECT CAPITAL.

PRIMARY DAF TO SAF® COST COMPARISON

	DAF	SAF® CONVERSION
HORSEPOWER	*40HP Recirc Pump / $0.08 KW H $20,920 /yr	Equivalent - 10HP / $0.08 KW H $5,230 /yr
FROTHING AGENT	N/A	25 GPM Output; 1-tote / 6wks $38,780 /yr
COAGULANT	700 lbs / Day $130,000 /yr	350 lbs / Day $65,000 /yr
CATIONIC POLYMER	120lbs/day $87,600 /yr	120lbs/day $87,600 /yr
ANIONIC POLYMER	110lbs/day $50,000 /yr	$0.00 /yr
OPERATION COSTS	$288,540 /yr	$196,610 /yr
NET SAVINGS/YR		$91,930

Difficult to quantify savings associated with directly reclaiming water vs requiring additional treatment.