



**WESTERN FLORIDA
WASTEWATER TREATMENT FACILITY**

Challenge:

To determine if Enviro-Tech of America, Inc. and **PX-700®** could accomplish the following:

- Reduce amount of solids that are produced at the treatment plant
- Reduce the disposal cost of the sludge produced

Facility personnel were used to gather and maintain records for the appropriate data for sludge, CBOD and TSS.

Background Data:

Facility Type: Anaerobic treatment facility with both industrial and domestic flows
 Design Flow: 12.4 million gallons per day
 Current Flow: 8.5 million gallons per day
 Sludge Generation: Average of 58.7 metric tons per week

This anaerobic wastewater treatment facility has been generating an average of 58.7 metric tons per week of sludge requiring proper disposal. Sludge transport and disposal costs for facility were consistently rising.

Treatment Procedure:

Product Used: **PX-700®**
 Treatment Period: 6 months
 Injection Points: Digester
 Amount of Product Used: 118.8 ounces per day

Results:

	<u>Start</u>	<u>End</u>	<u>Reduction</u>
Biosolids Reduction	58.7 metric tons/day	49.5 metric tons/day	25%
Effluent CBOD	3.84 mg/L	2.88 mg/L	25%
Effluent TSS	1.21 mg/L	0.71 mg/L	41%

The Monthly Summary Reports at the water reclamation facility note a drastic change to both the amount of sludge generated at the facility and the quality of the facility effluent water. Not only has the amount of sludge generated decreased, but the quality of the facility's effluent has also increased. The reduction in CBOD and TSS amount to a cleaner effluent.