Enviro-Tech of America, Inc

Case Study:

Northeast 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.

Background Data:

Facility Type:	Aerobic treatment facility with both industrial and domestic flows
Design Flow:	10 million gallons per day
Current Flow:	6 million gallons per day
Sludge Generation:	Average of 7 tons per day

The anticipated result from the use of ***PX-700®*** was to be an overall reduction of sludge generated by the facility thereby reducing costs associated with sludge disposal.

Treatment Procedure:

Product Used:	**PX-700®**
Treatment Period:	6 weeks
Injection Points:	Aerobic Digester
Amount of Product Used:	165 ounces per day for a dosage rate of 0.25 mg/L

Results:

	Start	End	Reduction
Biosolids Reduction	9 loads/day	7 loads/day	22%
Annual Hauling Cost	$500,000.00	$400,000.00	$100,000.00

Facility records indicated that 9 loads per day of sludge were generated and disposed of prior to use of ***PX-700®***. Three days after the initial dosage of ***PX-700®*** the number of loads of sludge transported off site for disposal decreased to 7 loads per day. This amounts to a reduction of over 22% in the amount of sludge generated. Facility records indicate that during the month of November, the treatment facility had a flow increase of over 600,000 GPD, due to fluctuations in the number of residents in the area. The additional 600,000 gallons of wastewater only produced 1 additional load of sludge per day requiring transport and disposal.