



*Tom's Snack Foods, Perry, Florida*  
*Surcharges, Grease and Odor*

Client operates a snack food manufacturing plant which had been receiving regular surcharges from the City of Perry. Odors were also a concern, as the plant is in close proximity to a residential area. Grease was a problem in the pumping station as well as evident in the lagoon itself. A products produced (potato/com chips), required frying

The treatment plant itself handled its wastewater from the plant in a 2.5 million gallon aerated lagoon that was located in back of the production facility. The City primarily based its surcharge rates on evaluating suspended solids with a daily grab sample as the effluent left the lagoon into another pumping station on its way to the municipal treatment plant, about two miles away. The daily average flow was between 40,000 and 175,000 gallons per day. Retention times were averaged of twenty one days as the daily plant flow was 100,000 gallons per day.

BYO-GON PX 109® was applied as follows: A 2.5 gallon shock dose was injected directly into the lagoon. This was followed by twice the NDE rate of daily portion pumped into the pumping station for about ninety days. Then a maintenance dosage was applied based on Normal Domestic Equivalency (NDE).

Visual results were documented by photographs after two weeks of being on line. Odors had a slight change in characteristics within the first week, and then were eliminated. An expected rise in the surcharge rate was realized in the first two months of the application, as the bottom solids had increased stimulation in this aerated lagoon. It appears that all odor masking agent purchases have been discontinued, and the lagoon itself will not need any manual cleanout expense in the future.

The plant achieved excellent results during winter months with dosage continuing within this period; even while portioning under cold weather conditions. It should also be noted that the facility also realized significant energy savings by reducing the operation of its five aerators by 25%.