



LAGOON COLOR AND WASTEWATER TREATMENT

Plant Profile:

Startup date: 1970s

Service population: 32,000

Flow: 3,300,000 gpd

Lagoons: 570 acres, 11 feet deep



In a few short weeks the City's 570 acres of wastewater lagoons turned from a healthy emerald green color to grey, then black and red. Rotten egg odors were coming from the lagoons and citizens were beginning to complain of the smell.

Two cheese plants and domestic wastewater from the city discharge into the lagoon system. The speculation was that CIP (cleaning in place) disinfectants and cleaners were entering the lagoon system in very large quantities up-setting the biology of the lagoon's ecosystem.

After unsuccessfully treating the lagoons with sodium nitrate to control odors, Royal Lloyd, Grade 4 Wastewater Treatment Plant Supervisor, began treatment with BIO ENERGIZER and SuperPhos to control odors and turn the pond system around.

Within two weeks the lagoons began to turn green, and at three weeks the odors were completely gone. At the four week period, lagoons were back to their emerald green color. Royal attributed his plant turn around to the BIO ENERGIZER application.

BIO ENERGIZER is a broad-spectrum bio-activator containing over 29 essential microbial growth-promoting factors. By design, BIO ENERGIZER is a balanced formulation of vitamins, trace nutrients, enzymes, organic acids, and bio-stimulants that motivate the existing microbial community to greater metabolic capacity and efficiency. BIO ENERGIZER is a not bacterium but a true bio-stimulant.