



LAGOON SLUDGE REMOVAL

Plant Profile:

Startup date: 1950s

Service population: 4,000

Flow: 700,000 gpd

Lagoons: 2 aerated, 1 facultative, 2 evaporation percolation basins

Capacity: 64 MG

When the operators at a City in California would row their boat across pond # 3, their oars would stir up accumulated sludge close to the surface. It appeared that sludge solids were escaping the pond and into the BOD test bottle causing a high BOD results. Further more, the nutrients in the accumulated sludge were

thought to be feeding algae and causing algae blooms in the pond. The superintendent elected to oxidize the sludge in place while keeping the lagoon online by using BIO ENERGIZER from Probiotic Solutions. BIO ENERGIZER is a biochemical compound that accelerates the process of sludge oxidation.

After one year's usage, about 50% of pond # 3's sludge was removed using BIO ENERGIZER to transform the sludge into harmless CO₂ and water.

Using BIO ENERGIZER has saved the City thousands of dollars in mechanical dredging, hauling, and disposal costs. Lagoon de-sludging using BIO ENERGIZER is typically one-fifth to one-tenth of the cost

of mechanical dredging and land applying or land filling sludge.

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.

For over fifteen years wastewater operators have continued to use BIO ENERGIZER to cut their sludge hauling costs.

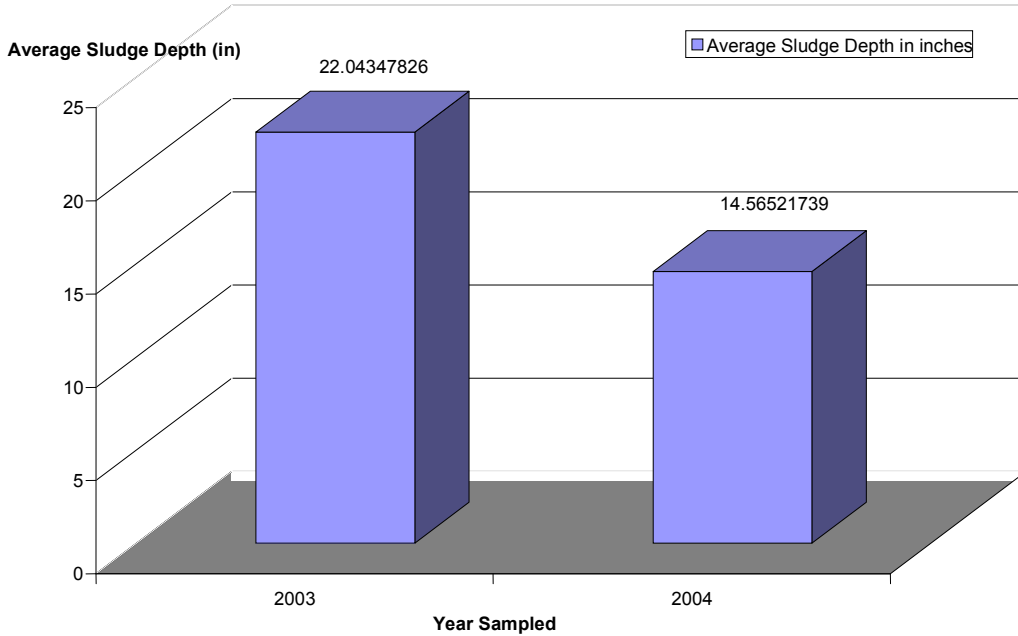
Operators Using BIO ENERGIZER Report:

- 1) The elimination of expensive dredging costs.** BIO ENERGIZER converts sludge into gases and water, reducing sludge accumulations. No draining, drying, excavating, or inconvenient down time.
- 2) The reduction of odors and aeration costs.** Probiotics enhance aerobic and facultative biological eco-systems to reduce the production of objectionable and offensive odors and enhances dissolved oxygen levels.
- 3) Increases in BOD removal efficiency.** BIO ENERGIZER improves treatment plant removal efficiency to increase plant treatment capacity and more easily meet effluent requirements.

BIO ENERGIZER enhances endogenous respiration for faster and more complete oxidation of sludge into carbon dioxide and water. BIO ENERGIZER is non-toxic, safe, and presents no danger to personnel.

Call Toll Free Today for Your Free Pond Evaluation and Sludge Removal Quote
1 (800) 961-1220 ext. 231

Average Sludge Depth in inches for the City's Wastewater Pond # 3. Before and After Using BIO ENERGIZER



Sludge Depth Profile of the City's Wastewater Pond # 3 Before and After Using BIO ENERGIZER

