

Sludge Handling Costs Reduced with BIO ENERGIZER®

FIELD REPORT

Location: Wastewater Lagoon in CA

Profile:

Location: California

Service Population: 10,000

Operators: 2

Lagoons: 3 aerated, 1 polishing/holding,

2 evaporation/percolation basins

Flow: 974,000 gpd

Capacity: 17.6 MG

Product Info

BIO ENERGIZER® is a broad-spectrum bio-activator containing over 30 essential microbial growth-promoting ingredients. 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 not a bacterium nor an inoculum.

Project Summary

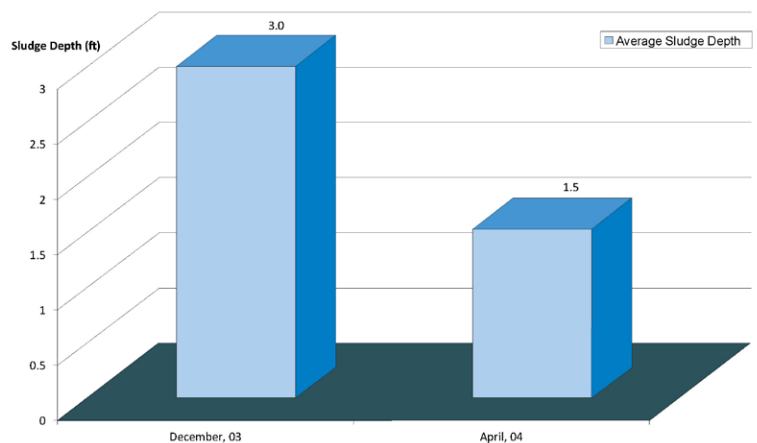
During the latter part of the year the chief operator at the city's wastewater lagoon system began making preparations to remove the sludge from his lagoons. Because mechanical dredging, sludge hauling, and land filling would cost hundreds of thousands of dollars, the City sought less costly alternatives.

Solution

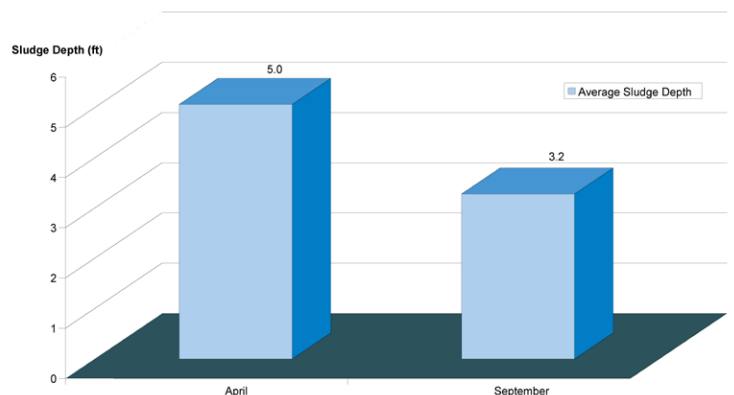
In April, the city decided to save money by biologically oxidizing their sludge to gas while the lagoons remained on line. To do this they began adding BIO ENERGIZER®, a biological activator that accelerates the natural oxidation of sludge into harmless carbon dioxide and water. After just 6 months, 21.36 inches of the sludge blanket was removed at a fraction of the cost of mechanically removing, drying, and hauling their sludge.

Before it was added to pond # 2, BIO ENERGIZER® was added to the primary cell to see the results. After a few short months, 50% of the sludge was removed at a cost of a few thousand dollars. BIO ENERGIZER® saved the city the expense of dredging, handling, and sludge removal costs in pond # 1.

**Pond # 1 Sludge Blanket Profile
Before and After Using BIO ENERGIZER®**



**Sludge Blanket Profile Before and After the Addition of the
City's Wastewater Pond #2 Before and after Using BIO ENERGIZER®**



Probiotic Solutions® Product Information

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For many years, wastewater operators have continued to use BIO ENERGIZER® to cut their sludge hauling costs.

Operators Using BIO ENERGIZER® Report:

- 1) Increases in BOD removal efficiency.** BIO ENERGIZER® improves treatment plant removal efficiency to increase plant treatment capacity and more easily meet effluent requirements.
- 2) 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.
- 3) The reduction of odors and aeration costs.** BIO ENERGIZER® enhances aerobic and facultative biological eco-systems to reduce the production of objectionable and offensive odors. BIO ENERGIZER® also increases the dissolved oxygen levels which decreases the need for aeration.

BIO ENERGIZER® enhances endogenous respiration for faster and more complete oxidation of sludge into carbon dioxide and water.



Our Probiotic Solutions® Products

are Highly Efficient and Effective Due to Our Unique Delivery System

Call Toll Free Today for Your Free Quote and System Evaluation.

1 (800) 961-1220