

# BIO ENERGIZER® Reduces Sludge Blanket 41%

FIELD REPORT

Location: Municipal Treatment Facility in Missouri

## Project Summary

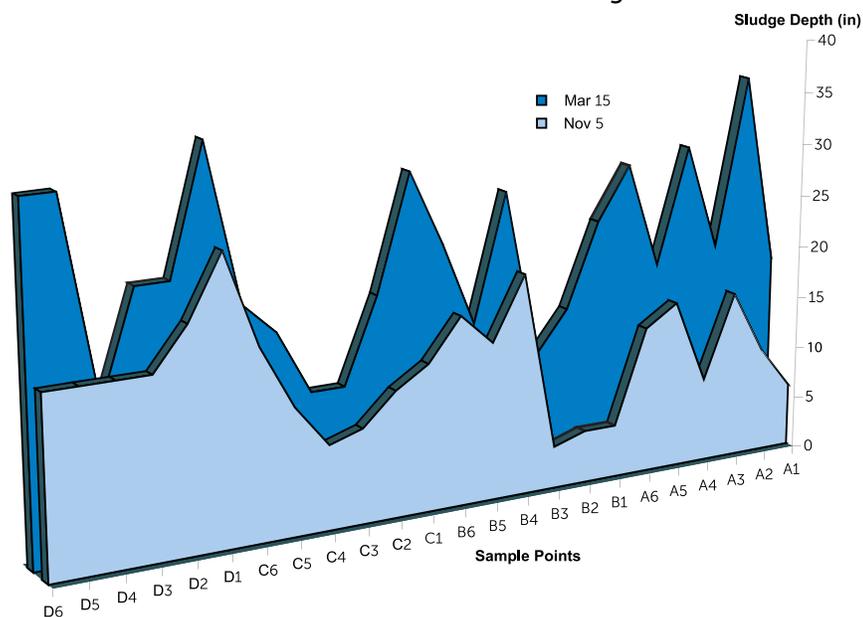
A Sewer District in Missouri operates a single-celled wastewater lagoon system that serves about 150 people and treats over 10,000 gallons of 100% domestic wastewater each day. The lagoon was built in the 1970s and had never been dredged.

## Situation

Before treatment with BIO ENERGIZER®, the city lagoon was black and had a noxious odor. In addition, the Missouri Department of Natural Resources (DNR) was demanding that the city lower effluent biochemical oxygen demand (BOD) and total suspended solids (TSS). The city needed a cost effective solution to resolve these issues.



**Figure 1. Sludge Blanket Profile Before and After the Addition of BIO ENERGIZER® to the Wastewater Treatment Lagoon.**



## Solution

After 8 months of using BIO ENERGIZER®, sludge levels were reduced from an average of 22.9 inches to 13.6 inches for a total average sludge reduction of 9.29 inches. This represents a total average sludge blanket reduction of 40.5%. Since using BIO ENERGIZER®, the water is clearer and the odors have been dramatically reduced.

## Probiotic Solutions® Product Information

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 biostimulants that motivate the existing microbial community to greater metabolic capacity and efficiency. BIO ENERGIZER® is not a bacterium nor an inoculum.

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**