



FIELD REPORT City in Indiana

Results After Using BIO ENERGIZER

Profile

Location: Indiana

Built: 1979

Service Population: 850

Number of Lagoons: 2

Size: 5.2 acres each

Dimensions: (each) 386' x 586' x 6' deep

Average Daily Flow: 77,000 gpd

Special features: multiple level draw-off

BOD5 and TSS limits: 30:30 mg/l



Solution

After seven months treatment with BIO ENERGIZER, about one-and-a-half feet of sludge was removed from the pond. As the lagoon was sludge judged at the end of the seven months operators noticed how easily the sludge judge cut through the water and remaining sludge blanket being forced. The sludge judge now just bounced on the bottom of the pond. Core samples also indicated little to no odor present.

Project Summary

The operators were struggling to keep their pond system in compliance and were facing enforcement action from the Indiana Department of Environmental Management for CBOD and TSS violations.

A routine measurement of the sludge blanket showed an average of two feet of accumulated sludge. An operating depth of just less than 5 feet meant the sludge blanket occupied about one-half of the pond volume. The City in Indiana contacted Mike Napier with BioChem for assistance in removing the sludge. Mike recommended BIO ENERGIZER to remove the sludge while the lagoons stayed on line.

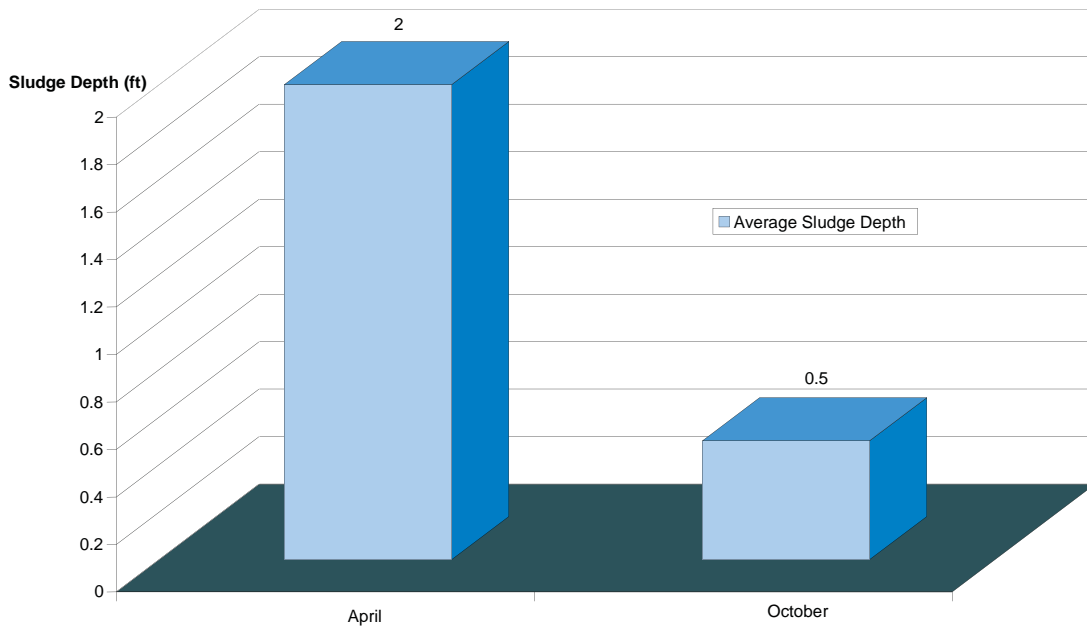
Situation

Accumulated sludge can lead to high TSS and BOD by releasing ammonia from the sludge blanket. This ammonia feeds algae and bacteria. Algae are a source of BOD as they consume oxygen under dark conditions and as they release their cellular material to the water column when they die.

In shallow ponds, accumulated sludge itself can slough off into the effluent which adds to the TSS and BOD problem.



Average Sludge Blanket Depth Before and After Using BIO ENERGIZER in Wastewater Pond #1



Product Info

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 not a bacterium.

For many 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.** Probiotic 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