Package Plant Regains Lagoon Capacity Using BIO ENERGIZER®

**Profile:**
- **Location:** California
- **Built:** 1970s
- **Plant Type:** Package plant with aeration and clarifier
- **Number of Lagoons:** 1
- **Size:** 0.08 acres
- **Dimensions:** (each) 200’ x 170’ x 5’ deep
- **Average Daily Flow:** 12,000 – 15,000 gpd

**Project Summary**
The treatment system underwent a change of ownership and in less than a year the chief operator noticed that sludge started building up at the inlet of the post treatment lagoon and had started surfacing. The owner was considering raising the berms surrounding the lagoon to in order to regain capacity in the system. The chief operator having used BIO ENERGIZER® in the past in the same system recommended to the owner to contact Probiotic Solutions®.

**Situation**
The system owner was facing lost capacity in his treatment system as well as dealing with accumulated sludge which 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.

**Solution**
After three months treatment with BIO ENERGIZER®, clarity had improved in the water quality as well as settleability. Surfacing sludge was significantly decreased as well and the owner is no longer facing the need to expand his current treatment lagoon.

**Before Application**

**3 Months After BIO ENERGIZER®**
Our Probiotic Solutions® Products

are Highly Efficient and Effective Due to Our Unique Delivery System

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