

PRO4000X

A powerful tool for sludge digestion

PRO4000X is a blend of selected bacteria formulated in a tableted format for ease of delivery directly to the bottoms of ponds and other bodies of water. These bacteria, a strain of *Bacillus subtilis* and a strain of *B. licheniformis* have been selected specifically for their ability to degrade organic matter that accumulates as a result of natural ecological processes.



Before



After

This known as bioremediation and is the basis for degradation of organic matter in waste water treatment plants, agriculture run-off lagoons, etc. Bioremediation of organic matter is critical for optimum environmental health and stability. As production cycles progress, organic wastes accumulate in the bottom of ponds and lakes. These can stress animals forcing them to forage in toxic accumulated fecal matter, rotting feed, the remains of animals that have died and for shrimp large accumulations of molted exoskeletons (chitin). The pond bottoms can be sources of toxic gasses like hydrogen sulfide and ammonia as well.

The tablets allow for targeted delivery directly to the pond bottoms where the organic matter accumulates. They can also be used in hatchery and broodstock tanks during PL and juvenile fish production.



Each tablet contains more than 60 billion spores. When the spores are placed in water in a nutrient rich environment the bacteria grow and digest the organic matter as well as breaking down any ammonia. The bacteria improve the water quality and reduce the nutrients available for blue green algae.

Powerful tools for improving water quality using time honored historically sound approaches with bacterial strains selected for their ability to degrade organic matter and improve water quality.