



Pond Klean™

Bio-Remediation for Ponds

Pond Klean is a complete, ready-to-use concentration of special enzymes and natural bacteria cultures that help improve water quality. The specific cultures have been selected for the rapid and efficient biotreatment of small lakes and ponds.

Bioaugmentation

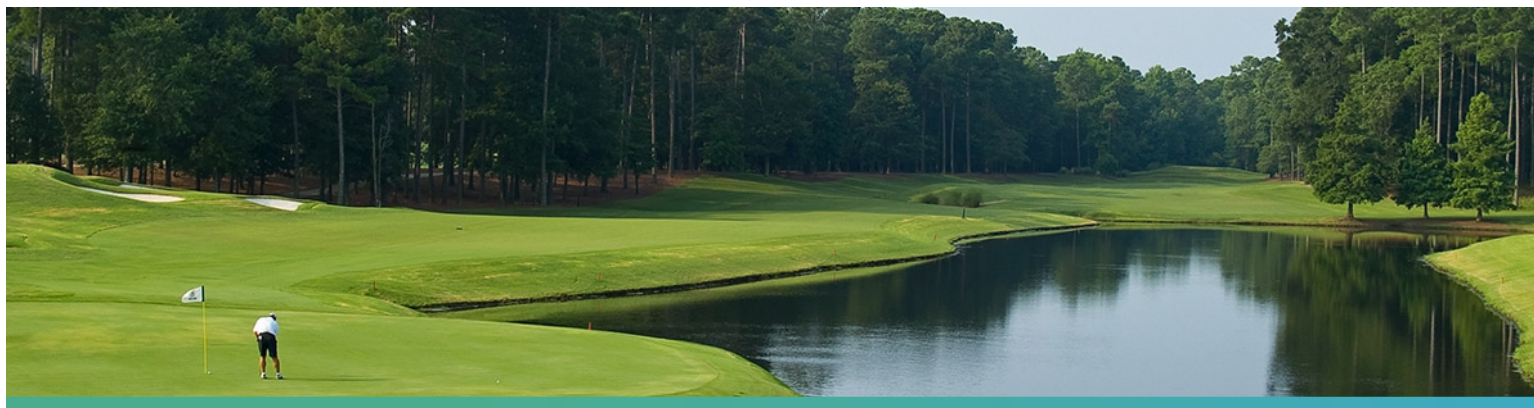
The **Pond Klean** technology is a chemical free process which helps break the cycle of stagnant water and unpleasant odors. Unlike algaecides, **Pond Klean** digests and liquefies the organic wastes that build up in a pond. Algaecides only temporarily reduce algae growth, but do not address water quality issues.

The selected bacteria and enzymes in **Pond Klean** go to work quickly when placed in a pond. They start by digesting the organic matter and nutrients

which are suspended in the water column and on the bottom. By consuming these wastes and liquefying them through the bioaugmentation process, water clarity naturally improves. Stagnating, odorous water clears up, and sludge and other unsightly wastes are reduced.

POND KLEEN BENEFITS:

- Effective and cost competitive with chemicals
- Completely non-corrosive and non-caustic
- Won't harm pumps, valves, fountains or nozzles
- Non-toxic; safe for fish, animals and people
- No special permits, handling or re-entry delays



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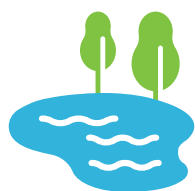
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Soil Technologies Corp.

2103 185th St., Fairfield, Iowa, 52556 U.S.A.



Pond Kleen™

Research

PARAMETER	NO TREATED	TREATED
pH	7.0	7.2
Acidity, mg/L CaCO ³	14	6.0
Alcalinity, mg/L CaCO ³	160	100
Ammonia, mg/L N	6.0	0.2
Dissolved Oxygen, mg/L	0.0	4.6
BOD, 20°C, mg/L	218	58
COD, mg/L	300	80
Total Suspended Solids, ml/L/hr	100	65
Sedimentable Solids, ml/L/hr	2.0	1.4
Detergents, mg/L SAAM	2.6	0.7
Grease and Oils, mg/L	58	9.0

University of Columbia
Department of Engineering.

Magdalena River, Giradot,
Colombia.

Technical Data

PRODUCT DESCRIPTION: Pond Kleen is a shelf stable, dry formulation of facultative aerobic and anaerobic bacteria, enzymes and surfactants effective for the digestion and liquefaction of organic wastes found in small lakes and decorative landscape ponds.

MODE OF ACTION: When placed in pond water, the Pond Kleen bacteria and enzymes begin working on the various organic matter substrates. The bacteria are saprophytic, only consuming dead organic wastes. The various enzymes work on the organic matter components and break them down for easier digestion by the bacteria. By using hydrolytic enzymes, not only are the wastes broken down into smaller molecules but, they are also kept in suspension in the water for more efficient metabolism by bacteria.

DOSAGE AND APPLICATION: Pond Kleen is applied at the rate of one pound per 100,000 gallons of water (or about 3lbs. per acre-foot). The application should be made at monthly intervals during the season. An initial purge application at double or triple the regular rate may be useful to accelerate the bioaugmentation process.

APPLICATION METHOD: Pond Kleen may be applied anytime the water temperature is in the 60° F to 100° F range. For application, the dry material may be broadcast by hand or mixed in water (mix 3 lbs. dry product in 5 gal. of water) and poured into the pond. The dry product should not be mixed with water and sprayed, due to the possibility of plugging spray nozzles.

PRODUCT SAFETY: The natural ingredients in Pond Kleen are recommended for improving the ecological balance in ponds. Pond Kleen is harmless to humans, animals, birds, fish, and living plants. Existing recirculation pumps or fountains in a pond will be enhanced in their performance with Pond Kleen. Bioaugmentation is the process of ensuring the availability of specific bacterial species in the substrate to breakdown waste constituents. This process is commonly used in waste treatment and is very effective.



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