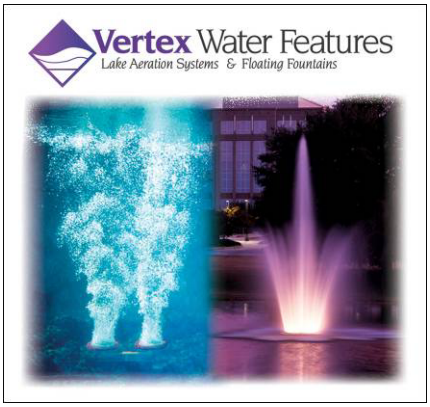
Basics of the Water Trifecta

The Water Trifecta©

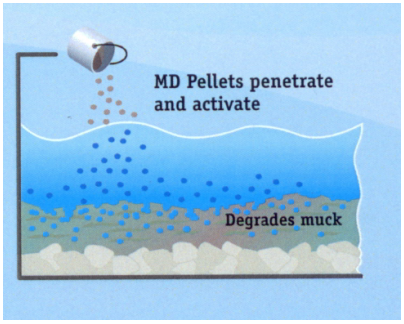
Kevin Hutchinson, Freshwater & Fisheries Biologist, created the Water Trifecta methodology for "environmentally friendly / Green" water management practices. We partner and cooperate with Mother Nature with these three sound principles which work in synchronicity. We encourage common sense water management practices by following this strategy. The "Water Trifecta" is a sound methodology .

Oxygen:
Install an aeration system to keep a consistent level of oxygen throughout your pond. Bottom aeration (>10' depth) or surface aeration or aerating fountain (<10' depth) will keep the necessary oxygen levels throughout your pond and for fish to have healthy respiratory systems. Bacteria need oxygen to function and increased oxygen levels keep the bacteria active consuming the excess nutrients which cause algae blooms. An aeration system also de-stratifies your pond by turning over the entire water column and cooling the water. A stratified stagnant body of water is hot on the surface and forms layers with the coolest temperature on the bottom. The hot surface promotes algae blooms.



Ultrasound :
Install an ultrasound algae control transducer to kill the majority of algae types that are prone to bloom in your pond. Help prevent new algae spores which are introduced through wind, rain, or from a stray ducks foot from catching hold. Ultrasound waves prevent new algae blooms from occurring and also help reduce the biofilm in the water where algae attach and grow. Ultrasound also is effective in stimulating the transfer of nutrients in and out of bacteria cells which will increase the rate in which decomposition of sludge happens.

Bacteria:
Add beneficial bacteria to your pond to consume the nutrients and consume suspended solids in the pond. Bear in mind that bacteria breathe oxygen and give off CO2. Adding beneficial bacteria to a pond must be coupled with aeration to provide proper oxygen levels for the bacteria to consume. Beneficial bacteria are the good "bugs" who consume what is decomposing in your pond.



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