

October 3, 2001

BRIGADIER GENERAL
RICHARD C. NASH
Assistant Division Commander – Maneuver
34th INFANTRY “RED BULL” DIVISION



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Dear Mr. Laing,

I have been asked by Mr. David W. Hanson of Minneapolis to write you describing my experience with your system. I have known Mr. Hanson for 28 years and through this time we have discussed my system on numerous occasions. I installed an aeration system in 1985 on a pond I dug on approximately 1 acre of low land. The base of the pond at the time was blue-grey clay with a topsoil of very rich black dirt and forest floor humus. The pond at its deepest point was 13-15 feet deep with the shallow ends averaging 4 feet. There were 2 islands built within the perimeter of the pond.

I immediately stocked the pond with (licensed) game fish to include Northern pike, sunfish, bass and crappies. The fish have flourished, spawned and have grown in size. I run the system 24/7/365 days a year. I have not experienced any unwanted aquatic growth or algae over all of these years. The pond does not have any natural springs feeding it, but relies on surface run-off from the surrounding agricultural property. As one can imagine the high dosage of fertilizer will eventually migrate with runoff to my property and eventually to the pond. I have no idea as to what types or quantities are being diverted to the pond but I can only assume that it would not be insignificant.

The area is shaded on all 4 sides of the pond with large oak trees, so sunlight does not penetrate to the surface of the water. There are two (2) diffusers in the deep end (13-15 feet) of the pond, while the rear of the pond does not receive any injected air or water movement.

I might also add that I have raised ducks, geese and swans on this pond and all have flourished. One might also calculate how much “fertilizer” these birds could contribute in a year.

I can only imagine the condition of a pond of this size with runoff, fish and aquatic birds without an aeration system. I have never cut weeds or skim the surface to rid it of any unwanted growth. Even though the pond has a clay base, the rich farm land surrounding the pond has found it's way into the pond and has been deposited on the bottom in a layer that now measures about 1 ½" – 2". This soil and the accompanying seeds, debris, etc. have still not established a growth of weeds either natural or noxious. I have never treated the water with any herbicides that would have killed unwanted growth. I might also add that I have never experienced any odor that would indicate an unhealthy body of water; in fact, I have been to some of the pristine 10,000+ lakes in Minnesota where I have had to hold my nose!

I will not even try to understand the chemical relationships, the density of the water changing every year, oxygen demands or methane and nitrogen gas levels. I can only tell you that I have a clean healthy pond that supports an array of wildlife (wild ducks, geese, blue herons, and egrets, wild turkeys, deer, raccoon and fish) that has your system in it for the past 16 years.

Yours Truly



Richard C. Nash

Cc: David W. Hanson
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