Christy Ketchel

From: timothy price <timothy.price@valley.net>
Sent: Thursday, April 05, 2018 11:38 AM
To: Christy Ketchel
Subject: Vermont opportunities in clean water initiative.

Follow Up Flag: Follow up
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Re: Water quality in Vermont

Dear Vermont Legislator,

Thank you for your work and for you taking some time to read this letter to you. Because I believe that there are opportunities here that are being overlooked, am writing to briefly share with you some considerations that could impact the ecologic and economic health of Vermont's future. Am not sure of all you have discussed, but consider these suggestions.

It is through thoughtful planning that the many factors that have changed our environment may be utilized for positive results by working within natural systems, not to preserve them, but to improve them.
(1)The advent of agriculture has increased food production, but it has also impacted the water content from fertilizers used.
(2)The automobile has greatly increased mobility, but the provisions for traffic have also effected water quality in runoff.
(3)Increase residential population.
We are aware of these. But is attempting to removing their added "pollutants" the best approach to a healthy and affordable future for Vermont?

Over the years we have become more aware of the connectiveness of everything, and the wholeness of our world. We should not expect to keep the same static conditions in any one piece of the whole, while drastically altering other parts. They all need to be thought of together and whenever possible, adjustments made to maximize benefits among them, and to reduce the negative impacts.

Some of the various technologies that can be looked to for consideration in our culture which should suggest beneficial approaches might be:

Aquaculture: The care of water bodies for maximum health and production of aquatic life.
https://en.wikipedia.org/wiki/Aquaculture
Water control methods: including filtration mashes, ph balancing, biological uptake.
https://en.wikipedia.org/wiki/Water_aeration
https://canadianpond.ca/air-bubble-curtains-bubble-tubing/

Energy requirements: Available sources, how they are most effectively used.
https://www.naturalnews.com/2018-02-11-worlds-soon-to-be-largest-offshore-wind-farm-just-began-construction.html
Also, smaller solar powered aeration systems all along the waterways to maintain sufficient oxygen levels.

Profits generated: Less expensive treatment, better utilization of available nutrients, greater yields, better health, boost to the economy through Vermont's tourist, sport fishing, commercial freshwater fish industries, and local harvesting of foods from freshwaters by citizens.

With highly oxygenated water containing more nutrients in it, plants, microorganisms, shellfish, sports fishing species, would flourish like never before, They would consume excess nutrients, including the phosphorus, as it would be going into bone formation, and removed from the system with fish catch would take it away permanently.

Can we have a serious examination of this approach, please? There is much data that has accumulated from around the world to support this approach, and is the only one that seems to maximize every opportunity to benefit our state.

Thank you for your consideration of my suggestions.

Respectfully submitted:

Timothy K Price
Vermont Wastewater design permit
ANR License #299
(now retired)