

Lake Peekskill Improvement District Meeting
Saturday, July 27, 2019
10:00 am
Town Hall
265 Oscawana Lake Road
Putnam Valley, NY 10579

In attendance: Sam Oliverio, Town Supervisor
Jackie Annabi, Town Councilperson
Judy Travis, District Clerk
Dave Shackleton, SIS.bio representative
Vincent Perrin, Putnam County Department of Health

There were approximately 30 Lake Peekskill residents in attendance along with Lake representatives from the Town of Cortlandt, Patterson and Carmel.

A representative from the Putnam County News and Recorded was also present.

The meeting was called to order at 10:00 am by Supervisor Oliverio.

The first item on the agenda was addressed briefly. There is a piece of property on the corner of Argyle and Chester that was cleaned up a few years ago as an Eagle Scout project. The property is owned by the Town of Putnam Valley and the highway department has been weed wacking it twice a year. If the District would like to take over the property's ownership, the LPID crew would then maintain it. Sam will discuss this with residents further at the District budget meetings on Saturday, August 3. Lake Peekskill budgets will be discussed at 9:30am.

A resident asks if the demo of the pump house will also be discussed at the budget meetings. Sam Oliverio responds that plans for the demo are underway as well as a stability study on the dam. Both items will be discussed next Saturday.

Presentation by Clean-Flo (SIS.bio) representative Dave Shackleton.

Dave introduces himself and gives a little background on his company. They have done work world wide on both recreational waters as well as drinking water supplies. Eutrophication is a growing problem world wide.

David presents a video "Understanding Eutrophication" which is available for viewing on their website @ SIS.bio

After the video, Dave presented information specific to Lake Peekskill. There has been a significant reduction in muck as well as de-stratification with dissolved oxygen levels at increments all the way to the bottom of the lake. Oxygen levels will drop off rapidly in an anaerobic environment.

Dave presented charts showing the improvements of the oxygen levels from May of 2018 through this date. A probe is inserted down into the sediment which now shows and aerobic sediment. Dave states that this system goes beyond just treating the symptoms. It is a holistic approach.

Dave presents some case studies of lakes and drinking water supplies that have benefited from this aeration system.

Dave presents some results for Lake Peekskill specifically to show the improvement in the oxygen levels. There has been a drastic decrease in sediment. The system goes beyond treating just the symptoms, it is a holistic solution. It manages the natural environment. He continues with the presentation showing case studies. The system results in a decrease in milfoil growth and changes in sediment. This is proven by bathymetric surveys. A case study of Lake Harmony in the Poconos is mentioned.

Sam Oliverio states that one reason the Town Board decided to move forward with this system was the result of a visit to the Coxsackie prison. The prison's drinking water supply was contaminated with blue green algae. Within 6 months of installation of a similar system, the water was cleared by the Department of Health.

Dave S. states that this system has been installed in quite a few reservoirs around the world. He continues stating that the sediment phosphorus levels were down 11% from June of last year through October. The bathymetric survey shows that the soft layers of sediment are being eliminated and there is an increase in the hardness on the bottom of the lake. The volume of the lake increases. The amount of sediment removed naturally would fill over 3000 dump trucks. The system drastically decreases the incidents of HABs. It is the HABs that close beaches. Cyanobacteria can not bloom in the environment that is created.

A resident asks about the impact of leaky septic systems around the lake. Dave S. responds by saying that the nutrients that enter the lake are being removed by the system. He presents an example of a Piggery Pond showing the reduction of waste. The system uses a combination of aeration and digestive enzymes. The sediment is being digested.

Sam Oliverio notes that last year Lake Peekskill was only able to open for a few days. It was closed for most of the season due to blue green algae blooms.

A resident asks about ongoing maintenance of the system.

Sam responds that when the bid was accepted a 3 year maintenance plan was included in the contract. Digestive enzymes are introduced every 6 months along with frequent monitoring of the system.

Agnes Powe states that she along with other Lake Peekskill residents have seen freshwater byozomes which are a sign of a healthy lake.

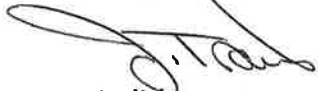
Sam Olivero notes that there has been a dramatic decrease in the amount of snails.

A resident asks if the blue green algae blooms have an effect on surrounding wells. Vincent Perrin from the Putnam County Department of Health responds that there is a slight possibility if the wells are very shallow or hand dug, but other than that, the water quality in the lake will not affect well water. The soil provides natural filtration. Heavy rains are a more immediate concern.

Sam Olivero now directs anyone who is interested to accompany him on a site visit to North Beach in Lake Peekskill.

Meeting adjourned @ 11:20 am

Respectfully submitted,



Judith Travis
District Clerk

8/6/19

