

HLA Lake Committee Meeting

Called 6:35 PM

Members present are in bold:

Sheri Berger, **Anthony Grandazzo**, **Jay Cassella**, **Victoria Nicholson**, **James Nicholson**, **David Chalifoux**

Guest: **Nick McMahon** from the Pond and Lake Connection

The following discussion regarding Oxygen Saturated Technology (OST) with Nick leading the conversation and answering questions.

- No need to aeriate the whole lake
- 1) Fountain surface
- 2) Diffused Air System – through tubes to diffuser head to minimize air bubble size
 - a. Breaks down thermoclyne
 - b. Oxygen is good for the environment
 - c. Less phosphorous = less algae
 - d. Bacteria needs oxygen – more oxygen = less muck
 - e. Slow process 1” – 3” per year
 - f. Needs lots of tubes and heads – due to shallow water (24 heads based on shallow lake)
 - g. Cost is approximately 50K
 - h. 2 year warranty
 - i. Requires paper filter replacement once per year (simple task)
 - j. 220Volt single phase
- Dredging is cost prohibited
- 3) Nano Bubbler – water pump on shore put small bubbles in water then returns oxygen/water back to lake
 - a. Smell at beginning of use dissipates quickly (before system check out is completed)
 - b. Oxygen disperses through whole lake in 1 – 4 weeks
 - c. Cost is approximately 50K
 - d. 2 year warranty
 - e. Store in warmth to prevent freezing
 - f. 220Volt single phase

Both systems are shut off over winter months

Cost is approximately \$100/month

- 4) Chemical treatments – 1/year plan to continue
- 5) Allum – blocks phosphorous from increasing plant growth

Numbered points above comprises the overall lake management plan possibilities (1 or 2 or 3 and 4 and 5).

Misc. notes of interest:

- Tanens – tea stain from wood decay in water
- SeaPro – water testing company option
- Pentar sells Vandoran Sampler (for water test samples), this device allows samples to be done at bottom of lake, adds to accuracy of tests
- Bathymetric map should be done with no weeds in lake and just prior to OST system installation (\$3 - \$4K)

Action Items: (Lake Committee)

- 1) Propose location of OST unit(s)
- 2) Power logistics and cost to wire
- 3) Shrubs and landscape rocks are used for hiding units, also deadens sound
- 4) Timeline of milestones, how long to save, financing, estimates are preliminary
- 5) Meet with Solitude (Anthony to schedule)

Meeting Closed 8:10 PM