

The intent of this proposal is to request that the ALA subsidize a \$2100 natural enzyme test to be conducted in the Sunrise Cove Waterway. The enzyme will be used to treat a three acre area up to three time, and over a three month period. The waterway is estimated to be ~ 3 acres.

In exchange, select homeowners of Sweet Grass Circle will do the following:

- procure product
- apply product
- take four measurements at predetermined locations (before, and before every application)
- report results monthly

Logic: This waterway supplies 40% of the water coming into Aurora Lake. It seems to make sense to manage the sediment upstream and before it reaches the larger lake. This is also a low cost beta to determine efficacy of future sediment management projects.

Goals:

- Remove 6" natural sediment in Sunrise Waterway over three months
- Reduce sediment migration risk to the larger lake
- Determine if enzymes work as a form of treatment for organic sediment
- Determine if the reduction in organic sediment reduces algae
- Increase fish feeding nutrients
- Complimentary benefit is draft clearance for boaters

Other Important Facts:

- City of Aurora and HHOA will not subsidize project, and defer to the land owner Mark Constantino. He has allowed Homeowners to manage the waterway in the past.
- Mechanical dredge took place in 2007 at an expense of ~ \$30K. Depth after dredge was 13'.
- Current Depth is 3' – 5'.
- Lay test supports the waterway has significant organic sediment, and 12"+.
- Product is a natural, non-toxic, and fully organic enzyme.
- The product actually treats the water, so land approvals are a moot point.
- Pictures / video shows significant water movement in the waterway, which would migrate sediment. Pictures show mud plumes up to Chappy's house in still water.

Natural Product Recommendations:

- Muck Remover Pellets; www.naturalwaterscapes.com.
- Pond Logic Muck Away; www.thepondguy.com.
- Pond Biotix ME; www.newtechbio.com.

All products have similar properties, results, and cost.