

**Lake Lemon Conservancy District
Dredging Study Group (DSG)
LLCD Office
October 11, 2014**

DREDGING STUDY GROUP MEMBERS PRESENT: PAM DUGAN, DIRECTOR; TINA THRASHER, DIRECTOR; NORM HOLY, FREEHOLDER; LES WADZINSKI, FREEHOLDER; BOB MADDEN, DISTRICT MANAGER; JAMES VAN TASSEL, LAKE BIOLOGIST. ABSENT: TIM SPECHT, FREEHOLDER; JEFF HARTMAN, FREEHOLDER; GREG MCATEE, FREEHOLDER.

I. Call Meeting to Order/Chairpersons Remarks

a. Additional Freeholders Present:

- i. David Kehoe (III)
- ii. Todd Fisher (VI)
- iii. Ron Thrasher (VII)
- iv. Vince Britt (VII)

II. Approval of September 13, 2014 DSG Meeting Minutes

THE DSG APPROVED THE SEPTEMBER 13, 2014 DSG MEETING MINUTES.

III. Presentation: Rebecca Caldwell, PhD student, Dept. of Geological Sciences, Indiana University and Dr. Douglas Edmonds, Assistant Professor, Dept. of Geological Sciences, Indiana University

- a. Research project on sedimentation patterns creating a delta on the eastern portion of the lake. (see attached)
- b. Caldwell reviewed her methodology and explained there will be little to no environmental impact.
- c. Caldwell's study will be of interest to the LLCD in regards to how the delta has formed over time, the mass of the delta, and potentially how the delta will continue to grow and change in the future.
- d. Douglas Edmonds mentioned this study could be replicated/updated by graduate students in years to come.

- i. This would provide the LLCD with useful information to understand the growth and change in the delta forming in years to come.

IV. Presentation: Dr. Jeff Ehman, Image Matters

- a. Ehman presented a handout to the DSG discussing his findings with the ReMetrix Report.
 - i. Ehman discussed the need for the most updated shoreline imagery and better shoreline calculations. ReMetrix will update the shoreline.
 - ii. The depth contour lines appear to be interpolated using a different algorithm than in 2003. ReMetrix has been asked to address this issue.
 - iii. Bean Blossom Creek has a significant change in morphology from the 2003 study. This could be due to more advanced equipment being used in 2014 study.
 - iv. Some other minor recommendations were made for the ReMetrix final report. (see attached)

V. Funding Mechanism Report from Angela Parker, LLCD Attorney

- a. The DSG reviewed the report from Angela Parker. It was found that the easiest and most cost effective way of taxing the Freeholders is through the current special benefits taxes. A flat tax could be implemented however, there are a lot of issues regarding attorney costs, enforcement of payment, freeholder compliance, and appraisals of property.
- b. The DSG discussed other forms of revenue options other than taxation.
- c. The DSG discussed the idea of having a survey poll for the Freeholders to complete. This would give a better representation of what all Freeholders around the lake feel about current lake issues. A lake wide survey has not been performed for many years. This would also be good information for a new manager to review.

VI. Status of CBU and Disposal Sites

- a. LLCDC Staff spoke with John Langley and he is currently discussing these options with the CBU.

VII. Discussion: Barge Design, Companies, and Cost of Equipment

- a. Thrasher presented an estimate on a smaller barge from waterways. After review the DSG decided LLCDC staff should make an onsite visit to discuss this bid in more detail with the barge builder/designer.

VIII. Discussion: Expanding DSG Committee

- a. Several other Freeholders around the lake have been regularly attending the DSG meetings providing valuable input. The Board should consider officially adding them to the DSG Committee.

IX. DSG Recommendations

- a. Survey of Freeholders
 - i. The DSG reviewed Angela Parker's, LLCDC Attorney, report on funding mechanisms available to the Conservancy District. After review, the DSG discussed poling all the Freeholders by survey detailing many initiatives (drawdown, increase in taxes, and increase in SRP). The DSG recommends to the Board to have LLCDC Staff contact IU (SPEA, Kelley School, Eppley Institute) about preparing a survey for the Lake Lemon Freeholders. The DSG would then present any proposal to the Board at a subsequent Board of Directors meeting.
- b. Expanding the Dredging Study Group
 - i. The DSG has had several additional Freeholders participating in the committee meetings. The DSG has found great value in having additional Freeholder input. The DSG recommends to the Board to expand the DSG to have two members per sub-area. This would allow for up to 14 official DSG members along with LLCDC Staff.

X. Adjournment

Submitted by:

James Van Tassel

Lake Biologist