

LWLI Water Working Group Meeting Summary

Place: Pine Jog Environmental Center-6301 Summit Blvd, West Palm Beach

Time: 9:30-12:00 am, Jan. 14, 2010

1. Attendance and introductions

Representatives are from USGS, PBERM, FDEP and SFWMD. The attendees are shown in the attached file.

2. Update of impaired water listing of LWL (Kevin Carter, SFWMD)

Kevin reported the latest development of impaired water listing of LWL. After consulting with the experts from SFWMD, PBERM and other local stakeholders, FDEP will propose to delete lagoon as nutrient impaired. But many watershed segments are still nutrient and/or dissolved oxygen impaired. FDEP's plan to develop TMDLs in Lake Worth Lagoon watershed is 2011 or 2012 accordingly to their draft TMDL priority map. The legal mandate between TMDL and BMAP were discussed. FDEP's TMDL contact list was shared by Kevin. A Stormwater Workshop is tentatively scheduled in April, 2010 for discussion of new state wide stormwater rule. Kevin will keep the group updated when more information is available.

3. Lake worth lagoon water shed delineation (Zhiqiang Chen, SFWMD)

The group compared two existing watershed delineations: one is from the SFWMD (provided by Zhiqiang Chen) and the other is from FDEP: WBID delineation (provided by

Tim Gray). There are some differences between them and a more in-depth comparison is needed after the GIS format WBID is available. The group has decided to wait until all GIS files are compiled for comparison and finalize the watershed boundary next meeting.

4. Update sediment trap in C-51 (Julie Bishop, PBERM)

Julie reported the progress of sediment trap project in C-51. Two surveys have been done since 2006. A final survey will be finished in August, 2010 (FY2010 project). A contract was issued to conduct data analysis for the two surveys. Review and support on the SOW development and deliverables review afterward for FY2010 project was requested. Some preliminary flow data in the period of Water Year 2010 will not be available in DBHydro at the time for the data analysis for FY2010.

5. Update from habitat group on decision analysis framework (Alessandra Medri, PBERM)

Alessandra handed out the decision analysis framework from habitat group regarding the Management Objectives for “Protect and Enhance Lagoon Resources”. The group briefly discussed this framework and will send their feedback to Alessandra within a month.

Miao-Li also update the group the current decision analysis framework and the progress on it. The group had agreed on continuing this work to by working on the information needed for “Minimize Watershed Impacts” and “Improve Lagoon Condition (Abiotic)” Management Objectives in each working group meeting. Miao-Li shared this exercise that has been successfully implemented in Loxahatchee science plan development. Alessandra had brought the questions regarding groundwater data issues. Mark Dickman (USGS) will provide general overview of USGS data in Lake Worth Lagoon area next meeting.

6. Sediment source analysis (Nenad Iricanin, SFWMD)

Nenad presented the results of sediment source analysis for LWL and its watershed on behalf of Professor John Trefry from the Florida Institute of Technology. The results showed that L-8 sub-basin is a dominant source of sediment. Organic matter in the lagoon is also dominantly of terrestrial origin ($64\% \pm 10\%$) versus in situ source of organic matter. The results also indicate there are some exceedance for trace metal such as lead, copper, zinc and mercury in the lagoon waters. A question on the how this information was used in North Palm Beach CERP project was raised. A requested to have the project manager (Beth Kacvinsky, SFWMD) attend the next meeting and give the group an overview and how this information is used.

7. Climate Change White paper

Bonnie Finneran (PBC DERM) shared the information regarding Climate Change White Paper that District is working on. The group had agreed to make request to the District's HSEM to attend next meeting and provide a briefing on the project.

8. Action items and next steps

- Kevin will help get the GIS based FDEP WBID data to Zhiqiang for comparison to finalize the LWL watershed boundary next meeting.
- Miao-Li will make request to get the preliminary flow data up to the survey time period (in June or August). The group will follow up on the progress of sediment trap project in June meeting.

- The group should send their feedback to Alessandra regarding the Decision Framework “Protect and Enhance Lagoon Resources” Management Objectives within a month.
- Mark Dickman from USGS will give an overview of USGS data in LWL in next meeting.
- A requested to have the project manager (Beth Kacvinsky, SFWMD) attend the next meeting and give the group an overview and how this information is used.
- The group had agreed to make request to the District’s HSEM to attend next meeting and provide a briefing on the Climate Change project.

9. Adjourn at 12:00 am