

**Northern Tampa Bay Phase II Local Technical Peer Review Group (LTPRG)
SWFWMD Tampa Service Office, Hwy 301N, Tampa**

**Meeting 35
March 1, 2007 - 9:30AM**

Summary

The following were in attendance: Doug Keesecker, Tampa Bay Water; **R. Warren Hogg**, Tampa Bay Water; Scott Emery, EHI/Hillsborough County; **Dave Slonena**, Pinellas County; **Gordon A. Leslie Jr.**, Hillsborough County EPC; Ed Sherwood, Hillsborough County EPC; Mario Cabana, Hillsborough County; **Michael Hancock**, SWFWMD; **Ted Rochow**, SWFWMD; Maya Burke, SWFWMD; Marty Kelly, SWFWMD; Robert Peterson, SWFWMD; Adam Munson, SWFWMD; **Doug Leeper**, SWFWMD; and John Emery, SWFWMD. Names in bold are designated representatives for the LTPRG.

Doug Leeper provided an update on the status of minimum flows and levels development for currently identified priority lakes. He noted that at the March 2007 Governing Board meeting, staff plans to recommend deletion of the Ten Year Flood Guidance Level from the rule amendments that the Board approved for six priority Pasco County lakes in November 2006. He indicated that this recommendation is based on preventing further delay in adoption of the minimum and other guidance levels for Crews Lake, Lake Iola, Jessamine Lake, Pasco Lake, Pierce Lake and Unnamed Lake Number 22 (Loyce Lake). The flood guidance levels developed for these lakes are to be subjected to a public review process that is expected to take three or more months to implement. Board approval of the recommendation to delete the Ten Year Flood Guidance Level from the rule amendments will be followed by publication of the amendments in the Florida Administrative Weekly, and assuming that the amendments are not challenged, incorporation of the recommended minimum and guidance levels (with the exception of the Ten Year Flood Guidance Level) for the lakes into the District's Water Levels and Rates of Flow Rules (Chapter 40D-8, Florida Administrative Code). Mr. Leeper also noted that the Watershed Studies for Lakes Raleigh, Rogers and Starvation project is expected to be completed in April 2007, but the project may be slightly behind schedule. Finally, he indicated that printed copies of two documents (see information below) that were developed as a result of District-funded lake projects were available for distribution to meeting participants.

Document Information

Hoyer, M.V., Israel, G.D. and Canfield, D.E., Jr. 2006. Lake user's perceptions regarding impacts of lake water level on lake aesthetics and recreational uses. University of Florida Department of Fisheries and Aquatic Sciences. Gainesville, Florida. Prepared for the Southwest Florida Water Management District. Brooksville, Florida.

Brenner, M., Whitmore, T.J., Riedinger-Whitmore, M.A., DeArmond, B., Leeper, D.A., Kenney, W.F., Curtis, J.H. and Shumate, B. 2006. Geochemical and biological

consequences of groundwater augmentation in lakes of west-central Florida (USA).
Journal of Paleolimnology 36: 371-383.

Marty Kelly gave a presentation on the proposed MFLs for the upper Hillsborough River and Crystal Springs. The upper Hillsborough River is defined as the segment of river upstream of the Morris Bridge gage to upstream of the point where Crystal Springs enters the river. The approach used on the upper Hillsborough River is similar to that used in previous studies of the Alafia, Middle Peace and Myakka Rivers. The overall approach considers the idea of a flow regime (versus a single minimum flow), benchmark periods (in consideration of multi-decadal climate variability), the use of building blocks (to address seasonality), and the development of a flow prescription based on a percent of flow reduction. Each of these approaches was discussed in some detail. Various tools were also described such as the use of HEC-RAS model and Physical Habitat Simulation Models (PHABSIM). Considerable discussion was devoted to the Crystal Springs flow record and how anthropogenic and climatic effects on flows were treated. The MFL document is currently undergoing independent scientific peer review, and is available on the District's web site.

The next regular LTPRG meeting is scheduled for 9:30 AM on April 11, 2007 at SWFWMD's Tampa Service Office.

AGENDA

Northern Tampa Bay Phase II Local Technical Peer Review Group

Meeting 35 SWFWMD Tampa Service Office, Hwy 301N, Tampa

March 1, 2007 - 9:30AM

1. January meeting follow-up
2. Miscellaneous updates
 - Lake MFL Update
3. Minimum Flow for the Upper Hillsborough River (Marty Kelly)
4. Other issues
5. Issues for next Meeting – April 11, 2007