

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

**Meeting 36
April 11, 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; **Gordon A. Leslie Jr.**, Hillsborough County EPC; Mario Cabana, Hillsborough County; **Laura Morris**, Quest Ecology; Kim Haag, USGS; Patricia Metz, USGS; Terrie Lee, USGS; Jason Bellins, USGS; Peter Schreuder, Schreuder, Inc.; **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 in March 2007 the Governing Board approved deletion of Ten Year Flood Guidance Levels from rule amendments pertaining to proposed minimum and guidance levels for selected Pasco County lakes. The modified rule amendments, which include proposed High and Low Guidance Levels and Minimum Levels for Crews Lake, Lake Iola, Jessamine Lake, Pasco Lake, Pierce Lake and Unnamed Lake Number 22 (Loyce Lake), were published in the Florida Administrative Weekly on April 6, 2007. He noted that if the rule amendments are not challenged, the proposed levels will be incorporated into District rules. He also noted that in the future, ten year flood recurrence levels and other flood stage elevations for lakes will probably not be incorporated into District rules, and will instead be made available to interested parties in reports produced for District-funded flood studies.

Patricia Metz from the USGS presented the results of 2 of the 5 chapters of an upcoming USGS report entitled "The comparative hydrology, ecology, and water quality of selected natural and augmented wetlands in West-Central Florida". The presentation focused on describing the hydrogeology of wetland basins along with the sub-wetland stratigraphy for 4 natural, 2 impacted, and 4 augmented wetlands in West-Central Florida. Ground-water flow patterns along with the ground-water and surface-water chemistry was described, which showed the influence of ground-water augmentation on the wetland hydrology. Ground-water flow patterns surrounding the wetlands were described as recharge wetlands, where the wetlands recharge the water table. Augmentation was found to influence these flow patterns, where the adjacent water table was much lower than the augmented wetland level. As a result, large volumes of wetland water had the potential to flow out laterally from the wetland. In addition, large head differences between the wetland and Upper Floridan aquifer levels increased the vertical outflow from the wetland. Ground-water chemistry for augmented wetlands indicated calcium-carbonate enrichment in the ground water surrounding the wetlands.

Ground-water chemistry surrounding natural wetlands showed the influence of low ionic input waters from the wetland surface water.

The next regular LTPRG meeting is scheduled for 9:30 AM on May 2, 2007 at SWFWMD's Tampa Service Office.

AGENDA

Northern Tampa Bay Phase II Local Technical Peer Review Group

Meeting 36 SWFWMD Tampa Service Office, Hwy 301N, Tampa

April 11, 2007 - 9:30AM

1. March meeting follow-up
2. Miscellaneous updates
 - Lake MFL Update
3. Recent findings on the Assessment of Wetland Augmentation - Hydrogeology and Ground-water Quality (Patty Metz, USGS)
4. Other issues
5. Issues for next Meeting – May 2, 2007