

# CFCWSPI Hydrologic Analysis Team Status

May 20, 2011

*Presented by Akintunde Owosina*

# The Hydrologic Analysis Team

The Hydrologic Analysis Team is made up of representatives from the three water management districts and technical representatives of the stakeholders. The team is charged with developing the necessary modeling tools and data analysis to support the CFCWSPI.

Leads & Team Members as of March 28<sup>th</sup> 2011 are:

SWFWMD	SFWMD	SJRWMD	UTILITIES / OTHERS
<ul style="list-style-type: none"><li>• Mark Barcelo</li><li>• Jill Hood</li></ul>	<ul style="list-style-type: none"><li>• Akin Owosina</li><li>• Jeff Giddings</li></ul>	<ul style="list-style-type: none"><li>• Doug Munch</li><li>• Brian McGurk</li></ul>	<ul style="list-style-type: none"><li>• David MacIntyre (STOPR)</li><li>• Bruce Lafrenz (STOPR)</li><li>• Al Aikens (Seminole Cty./OUC)</li><li>• Sarah Whitaker (WALC)</li></ul>
	<ul style="list-style-type: none"><li>• David Butler</li><li>• Chris Sweazy</li><li>• Jason Yan</li></ul>	<ul style="list-style-type: none"><li>• Patrick Burger</li></ul>	<ul style="list-style-type: none"><li>• Oscar Vera (STOPR)</li><li>• Chris Russell (OUC)</li><li>• Brian Megic (Orange County)</li><li>• Valerie Davis (WALC)</li></ul>

# Hydrologic Analysis Team Guiding Principles

## **Mission**

Ensure that the most appropriate science is applied to the modeling and data analysis to support decision making for the CFCWSPI and that the work completed is defensible, understood by the initiative participants and collaboratively developed.

## **Approach**

The team will work within a collaborative environment with open and full information sharing as well as joint responsibility and accountability for completing team assigned work products.

# Hydrologic Analysis Team Objectives

Provide necessary modeling tools and data analysis and work collaboratively with other Initiative teams to:

- Evaluate the current and future availability of groundwater
- Assess future water supply and management strategies
- Develop processes to assess the long-term effectiveness of the management strategies
- Support collaborative water supply planning
- Support future regulatory actions

# Progress Since Last Briefing

- Met with USGS to discuss access to model information
  - Model will not be available until January 2012
  - Periodic meetings to receive status reports, provide feedback, and discuss modeling approach
- The HAT met April 19<sup>th</sup>, May 4<sup>th</sup> and 17<sup>th</sup>, and Online
  - Planned topics and schedule for future meetings
  - Provided additional background on the DWRM and ECFT model
  - Initiated discussions on existing and future water use
  - Prepared draft of work plan (<http://gwa-cfca.wikispaces.com/>)
  - Met with USGS to review modeling approach

# Anticipated Work for Next Month

- Finalize work plan
  - Initiate collaborative work process with other teams through Technical Oversight Committee
  - Build comprehensive schedule
- Meet with the Environmental Measures Team to initiate discussion on comprehensive evaluation of potential influences on wetland changes and wetland criteria (relationship of simulated response to field observation)
- Meet with USGS and Intera, Inc., to review statistical analysis efforts (June 24<sup>th</sup>)

# HAT Work Plan

## Initiative: Modeling and Hydrologic Support

### Key Components:

- [Model Conceptualization](#)
- Model Calibration
- Statistical Trends in Hydrologic Data
- USGS Project to Quantify Factors Affecting Groundwater and Lake Levels
- Initial Model Scenarios
- Documentation

# HAT Work Plan

## Initiative: Groundwater Availability

In coordination with the Environmental and MFLs teams, determine the current and future availability of groundwater.

Key Components:

- Simulate changes in ground water levels, spring flows and lake stages in response to selected ground water pumping scenarios
- Evaluate and Interpret modeling results
- Estimate groundwater availability with respect to water demands
- Assist in the preparation of a groundwater availability summary report



# HAT Work Plan

## Initiative: Solutions Development

Assess strategies to ensure a sustainable resource that meets needs of the environment and water users.

Key Components:

- Identification of potential management strategies
- Identification of evaluation criteria to measure acceptability of strategies
- Initial screening of the identified strategies
- Combination of successful strategies into management alternatives and evaluation of those alternatives.
- Assist in preparation of the CFCWSPI management plan

# Follow-up Items From Previous Steering Committee Meeting

- Status of access to USGS model
- Establish an information sharing website

# Questions

