CFCWSPI Hydrologic Analysis Team Status

April 1, 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 28th 2011 are:

SWFWMD	SFWMD	SJRWMD	UTILITIES / OTHERS
• Mark Barcelo • Jill Hood	• Akin Owosina • Jeff Giddings	• Doug Munch • Brian McGurk	• David MacIntyre (STOPR) • Bruce Lafrenz (STOPR) • Al Aikens (Seminole Cty./OUC) • Sarah Whitaker (WALC)
	• David Butler • Chris Sweazy • Jason Yan	• Patrick Burger	• Oscar Vera (STOPR) • Chris Russell (OUC) • Brian Megic (Orange County) • Valerie Davis (WALC)

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

- USGS initial briefing (March 15th 2011, Orlando)
  - Summary of work done to date
  - Status of the USGS version of ECFT model
- The team met to initiate discussion on collaboration process (March 22nd, 25th and 28th, Online)
- Interim documents sharing site set up (March 24th 2011, Online)

Anticipated Work for Next Month

- The team will continue to meet on a frequent schedule.
- The team will develop a modeling approach to achieve the overall goal of the CFCWSPI. The approach will consider the needs of all the technical committees.
- The team will discuss differences between ECFT, DWRM and the new USGS Model.
- Meet to review statistical analysis and USGS ANN work

Assumptions and Understanding

The USGS ECFT will be the foundational model for the Initiative

- The current projected completion data for the USGS ECFT model is December 2011.
- The overall Initiative time frame will drive the schedule for concluding modeling work.

Hydrologic Analysis Team - Current Activities

- Development of the model is ongoing by the USGS
- Review the USGS GW Model
- Review ongoing and completed work performed by WMDs
  - ECFT and DWRM models
  - Statistical Trend Analysis
  - USGS ANN work
  - Other data analysis
- Share and review documentation of work done
- Prepare scope of work and anticipated schedule for completion

Future Activities★

Groundwater Availability Assessment

- Quantify evaluation criteria (how to evaluate model results)
- Apply modeling tools to evaluate resource impacts
  - Lakes
  - Wetlands
  - Rivers/Springs
  - Saltwater Intrusion
- Documentation of the work

★*These efforts will require collaboration between the various technical teams*

Future Activities ★

Solution Development

- Apply hydrologic analysis tools to evaluate proposed water supply strategies
  - Optimization of groundwater withdrawals
  - Lower Floridan aquifer
  - Current and future recharge, mitigation and recovery activities
  - Others

Regulatory support

- Tasks To Be Defined (Start date TBD)

★ *These efforts will require collaboration between the various technical teams*

Current Issues for Steering Group

Secure early release of USGS model to team members.

Background: USGS model is currently scheduled for release in December 2011. USGS will make the model available to team members at that time.

Issue: Having the model ahead of the official release date by USGS would allow the team to evaluate how the model performs to address CFCWSPI objectives. This also would allow development and incorporation of team comments before formal release of the model.

Resolution sought: An early release of the model to the team so that the team in the intervening period between now and the end of the year can achieve familiarity with the tool necessary to allow its proper use for CFCWSPI efforts.

Questions