

**Memorandum**

**Resource Agency Meeting  
on  
Supplemental Aquifer Studies**

**Savannah Harbor Expansion Project**

A meeting was held on 12 March, 2004 at the office of the Savannah District, US Army Corps of Engineers to update GAEPD, SCDHEC and USGS (Georgia and SC Districts) on recent progress and findings regarding supplemental studies relating to potential impacts to the Floridan aquifer as a result of the proposed Savannah Harbor Expansion Project (SHE).

The following persons attended the meeting:

Bill McLemore – GAEPD (GGS)  
Camille Ransom - SCDHEC  
John Clarke – USGS, Georgia District  
Jim Landmeyer – USGS, South Carolina District  
Mark Maimone – Camp Dresser & McKee  
Paul Hossain – Camp Dresser & McKee  
John Cox – Applied Technology & Management  
Mackie McIntosh - USACE, Savannah District  
Robert O'kelley - USACE, Savannah District  
Cardwell Smith - USACE, Savannah District

The meeting began at 1000 with Mr. Smith introducing Mr. Hossain and Ms. McIntosh to the other attendees and explaining that the purpose of the meeting was to update the attendees on progress and findings to date, obtain feedback on the findings and discuss any potential changes that may be needed in the remainder of the proposed work.

Mr. Smith then spent about an hour presenting a summary of project related background and previous studies, as well as the findings of recent work. Particular emphasis was placed on the recent supplemental paleochannel seismic survey and the paleochannel/confining layer pore water investigation.

The seismic survey appears to have produced some exceptional data on paleochannels. Over 60 miles of survey were completed predominately in the area between Fields Cut and Tybee Island.

Pore water data collection is progressing well and it appears that the data will be very useful in the calibration of the model.

Following the presentation there was a period of general discussion on the progress of supplemental project elements and thoughts on any potential changes that might be warranted, based on findings to date. It was decided that one of the remaining channel borings, which have been focused in paleochannel areas, should be located in an area between two paleochannels to allow comparison of the pore water profiles below paleochannels with a profile below a non-paleochannel area.

Channel borings should be completed within the next few weeks and land borings are expected to begin soon thereafter. Construction details of the nested wells to be installed after land core borings are completed were discussed, and the consensus seems to lean toward using conventional 4-inch wells versus single installation multi-port wells.

After lunch, discussion was focused on data needs for the 3-D ground-water model that Mr. Maimone and Mr. Hossain (CDM) are working on. Mr. Hossain has been working with the USGS (Mr. Clarke's office) to develop the database for the model. CDM will use the GIS layering and hydraulic properties of the USGS Hilton Head/Savannah models as the basis for the Savannah Harbor model, combined with more recent USACE harbor-specific data in the immediate project area.

The following action items resulted from the meeting:

1. Mr. Smith and Ms. McIntosh will continue compiling and updating project data to be provided to CDM for the model.
2. CDM will continue with development of the model database and begin model calibration.
3. USACE will continue to keep GAEPD, USGS and SCDHEC informed on project findings.

Project coordination will continue to be maintained via e-mail and telephone, and additional meetings will be held as needed.

The meeting concluded about 1515.

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