- 1. John Lovelace the USGS gave a progress report on "Development and maintenance of a computer model to simulate groundwater flow and saltwater encroachment in the Baton Rouge Sands, Louisiana."
- a. PROGRESS AND SIGNIFICANT FINDINGS:
- i. Responded to supervisor's review and colleague reviews of the report: "Simulation of Groundwater Flow and Chloride Transport in the "1,500-Foot", "2,400-Foot", and "2,800-Foot" Sands of the Baton Rouge Area, Louisiana." Text, tables, and figures were revised accordingly.
- ii. Modified the finite-difference model grid to exclude some unnecessary area in Mississippi and Avoyelles and St. Landry Parishes.
- iii. Revised the model grid layers for the next model iteration, which emphasizes accurate simulation of flow in the "400-ft," "600-ft," "800-ft," and "1,000-ft" sands, and saltwater encroachment in the "600-ft" and "1,000-ft" sands.
- iv. Constructed RIVER Package to simulate groundwater interaction with Mississippi River
- v. using MODFLOW and SEAWAT. Mississippi River stages for each model cell were interpolated between historical average stages at four gaging stations.
- vi. Revised the water-level observation model dataset to enable calibration with the revised model layering.
- b. PLANS FOR NEXT QUARTER:
- i. Submit the draft report to the Enterprise Publishing Network (EPN) for editorial review and preliminary preparation for publication.
- ii. Submit the draft report for USGS approval.
- iii. Submit latest groundwater model archive for approval.
- iv. Compile historic groundwater withdrawal from the 400-ft sand, and update the model specified withdrawals through 2017.