



GEOLOGY AND ENGINEERING ANALYSIS FOR ECONOMIC PLANNING IN THE BLUE SPRINGS, MISSISSIPPI, AREA



Project Description:

This project's goals are three-fold; 1) The Blue Springs, Mississippi, area is likely to experience rapid economic growth as the result of siting the Toyota car manufacturing plant in the town of Blue Springs. Geological and geotechnical data acquired by the Mississippi Mineral Resources Institute (MMRI) has been summarized to promote environmentally-responsible planning and development, 2) the MMRI completed a survey of the area's mineral resources and identified the areas in which these resources are likely to be obtained, 3) the MMRI worked extensively with the Three Rivers Planning and Development District to distribute these data to area stockholders that are likely to use the data.

Project Status:

This project is complete.

Publication Status:

Open-file Report 11-1S was completed in August, 2011, by Charles T. Swann and Jeremy J. Dew. The report is available through the MMRI web site as is the companion digital data set.



Important Conclusions from the Project:

- The study produced a new geological map to update previous mapping completed in the 1940s. Geological units are identified, described, and their aerial extent defined.
- The geotechnical characteristics of the study area has been determined and summarized as an engineering geology map. This map includes geotechnical concerns such expansive soils, flood-prone areas, areas of potentially significant excavation costs, areas of faulting as well as areas with few identified concerns.
- A mineral resources map was completed illustrating the distribution of mineral resources of the study area. Potential uses for these resources were also identified.
- A companion set of digital data was compiled to assist the user in conducting spatial analysis and to accommodate the user's site-specific analysis criteria.

Partners in Research:

Three Rivers Planning and Development District
Mississippi Office of Geology (Miss. Dept. of Environmental Quality)

Contact: Greg Easson, Director; e-mail: geasson@olemiss.edu; ph.: (662) 915-5995