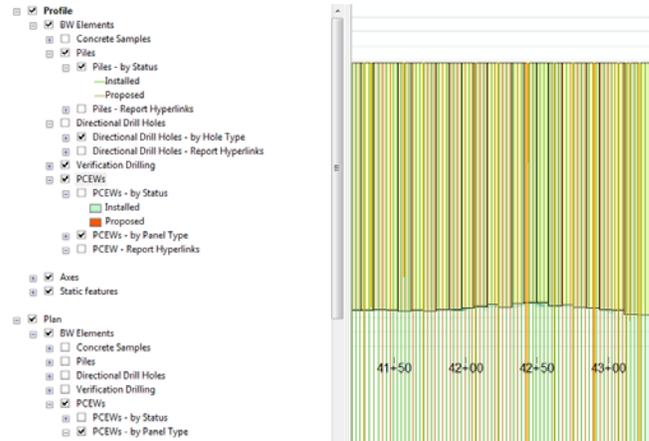
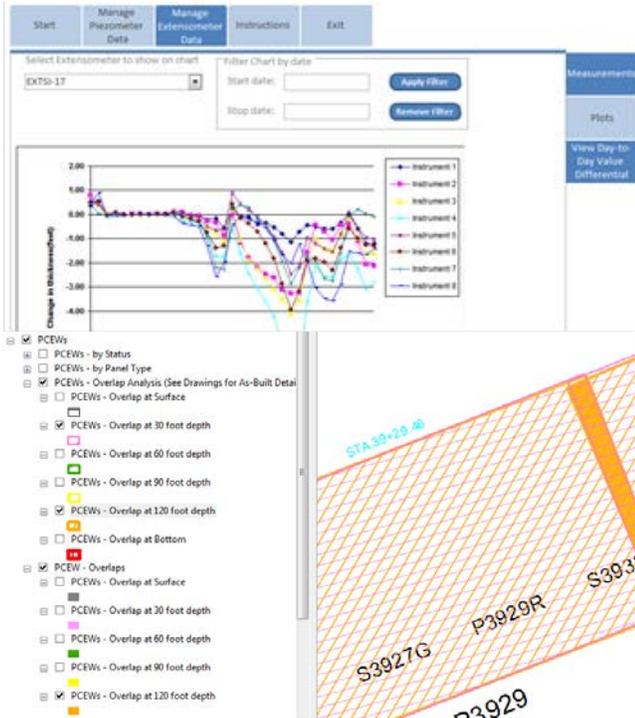




Client: Treviicos-Soletanche Joint Venture

Services Provided:

- ✓ Data compilation, synthesis, and visualization
- ✓ Internet application development



Geosyntec's deployment of tools to manage and visualize all project data, including instrumentation data; data associated with barrier wall construction elements; verticality measurements; and more, give the client and other project team members' immediate access to key project performance metrics.

Project Objective

The Wolf Creek Dam is a high-profile dam owned by the United States Army Corps of Engineers (USACE) and managed by the USACE Nashville District. The USACE and their primary construction contractor, the Treviicos-Soletanche Joint Venture (TSJV), require a method to synthesize the abundance of historical data available from previous investigations and construction activities, and new data collected during the ongoing construction and monitoring activities.

Geosyntec's Scope of Services

Geosyntec designed and implemented the Wolf Creek Information Management System (WCIMS), a workflow that allows automated and quality-controlled assembly of all site data. The WCIMS presents these data in web-accessible reports and two- and three-dimensional interactive tools built using Geographic Information System (GIS) technology. At the heart of the WCIMS is a GIS Viewer, a free tool that shows site data in plan and profile views and provides access to data and reports associated with a feature simply by clicking on the feature. The Viewer and all other WCIMS tools are joined to an internet-enabled comprehensive enterprise database, allowing data to be both uploaded and viewed by users in remote locations (e.g., on-site, in the USACE District office, and anywhere else). A synchronization feature allows tools to be used off-line when users want to assess project information during periods when the internet may be inaccessible.

Notable Accomplishments

Geosyntec's deployment of the WCIMS allows owners and stakeholders in the Wolf Creek Dam rehabilitation project to view the entirety of the site data in a single, geospatially accurate system. In this system, disparate data streams can be viewed in context and the safety and success of the construction can be measured with accuracy and quality.