



Water Utility Management

Client
Clayton County Water Authority

Location
Clayton County, GA, USA

CH2M HILL developed a website providing integrated access to core Clayton County Water Authority (CCWA) business functions. The website included a web-based facility information management system (FIMS), document/file library search and retrieval tool, access to plant and engineering drawings, customer feedback page, calendar of events, and other critical functions. The web page also offers secure remote access by CCWA employees.

Clayton County Enterprise Information Systems/GIS Development

Project Description

CH2M HILL developed GIS Lite, an ArcView-GIS application designed to demonstrate the value of GIS to CCWA staff. GIS Lite acts as a basic browser, allowing staff to access spatial data and create maps, enter manhole locations and infrastructure data, and automatically generate meter reading routes. GIS Lite includes a web-based metadata browser that allows CCWA staff to browse available data and find and retrieve relevant data sources. This project is an example of our ability to identify value driven quick wins and put them in the client's hands.

CH2M HILL developed an Enterprise IS Master Plan and is assisting CCWA with planning and implementing an Enterprise Resource Planning (ERP) system, hardware/ software/ network infrastructure, hydraulic modeling and capacity planning, and enterprise GIS implementation. The GIS Implementation Plan, completed in December 2000, defined current mapping activities and related business practices, identified and prioritized user requirements for an enterprise GIS, and defined and provided specifications for high-priority GIS applications. We recommended a conceptual GIS system architecture using ESRI enterprise GIS products, including long-term implementation of ArcSDE and relational databases and new infrastructure to support the GIS. We identified system integration requirements necessary to integrate the enterprise GIS with the CCWA financial and human resources applications (the JDEdwards enterprise resource planning tool), maintenance management system (MMS), hydraulic modeling and capacity planning applications, and customer service applications. Three alternatives were offered—each addressing data needs, data collection methodologies, application development, training, and staffing needs. Detailed cost estimates were provided for each implementation alternative to aid in Board of Directors (BOD) decision-making. CH2M HILL assisted CCWA staff in presenting concepts to the BOD to win approval for the overall program and provide progress reviews throughout the program period.