

PROJECT BRIEF

Richland Creek Dam Instrumentation & Monitoring

PROJECT PROFILE

CLIENT:
Brad Cole Construction

LOCATION:
Dallas, GA

VALUE:

- Enhanced safety through monitoring during construction, reservoir filling and long-term operation of earthen dam
- Provided on-going engineering support and training to the contractor and the project engineers throughout construction

SERVICES PROVIDED:

- Installation and training of geotechnical instrumentation and monitoring system

“Geocomp installed 64 open well piezometers, 5 inclinometers, 14 surface monitoring points, 12 vibrating wire piezometers and 21 liquid level foundation settlement monitoring systems within and around the dam.”



INSTALLATION OF GEOTECHNICAL INSTRUMENTS & DATA MANAGEMENT COLLECTION

Geocomp installed the geotechnical instrumentation and monitoring system for the project. Instrumentation included 64 open well piezometers, 5 inclinometers, 14 surface monitoring control points, 12 vibrating wire piezometers and 21 liquid level foundation settlement monitoring systems installed within and around the dam. Geocomp worked closely with the contractor and our services were staged, performing several rounds of instrument installation over the course of the multi-year construction project. Geocomp also obtained regular manual readings, provided technical support and on-site training on the use and maintenance of the instrumentation system to the contractor and the project engineering team. Our instrumentation and monitoring work was completed on-time and within the project budget.



BACKGROUND

At 2,700 feet long and 160 feet high, the Richland Creek Dam is the largest earthen dam in the southeast region of the U.S. The water supply dam was built for Paulding County where the population is projected to double in the next 25 years. The project includes a new dam, a reservoir, a water treatment plant (WTP), two major pump stations, 20 miles of pipeline, and other distribution system improvements constructed to secure an independent, sustainable water supply source for Paulding County.