



## PROJECT BRIEF

# Atlanta International Airport Tunnel Excavation

## PROJECT PROFILE

CLIENT:  
Atlanta International Airport

LOCATION:  
Atlanta, GA

- VALUE:
- Reduced risk by monitoring unexpected performance during construction
  - Enabled proactive and cost-effective approach to managing risk by implementing data management system that showcases early warnings of unacceptable performance

- SERVICES PROVIDED:
- Real-time performance monitoring

“The system provides early warnings of unacceptable or surprise performance in time so that proactive measures can be implemented to stop the undesirable performance or reduce the consequences.”



## INSTALLATION OF GEOTECHNICAL INSTRUMENTS & DATA MANAGEMENT COLLECTION

Geocomp provided performance monitoring to the project team. The project involved the open-cut excavation of twin tunnels as wide as 67 feet in fill soils of varying composition. The movement of the adjacent existing tunnel was a concern due to the unbalanced earth load of the excavation. Excavation in variable consistency ground is suspect to unexpected behavior, such as sudden deformation or ground collapse. Such an event could cause significant disruption in airport operations in the area of work, potential hazard to people, damage to equipment, and delays. The project team chose a proactive and cost-effective approach to managing this risk using Geocomp's *iSiteCentral*® real-time monitoring program. The system provides early warnings of unacceptable or surprise performance in time so that protective measures can be implemented to stop the undesirable performance or reduce the consequences.



## BACKGROUND

The addition of Maynard H. Jackson International Terminal at Atlanta's Hartsfield-Jackson International required the expertise of various companies and professionals. As part of the expansion, the Automated People Mover (APM) trains needed to be extended from Concourse E to the new international terminal.