

## PROJECT SUMMARY

### Project Name:

C-44 Reservoir/Discharge Canal, Spillway Structure

### Owner:

South Florida Water Management District (SFWMD)

### Client:

HDR Engineering

### Project Information:

Location: Martin County, Florida

The C-44 Reservoir and Stormwater Treatment Area is located in western Martin County, Florida, and will be approximately 12,000 acres in size. The system includes a stormwater reservoir and a stormwater treatment area. A reservoir pumping station will pump water into the reservoir to help attenuate flows back to the canal and improve the overall quality of the estuary system downstream.

RADISE is providing Geotechnical Engineering services including field exploration/testing and laboratory testing conducted at RADISE's lab. Providing a Geotechnical Data Report for the study of a temporary construction office trailer compound and a soil stock pile. The study also includes the spillway canal to the C-44 canal located at the south side of the C-44 Reservoir.



The scope of work includes evaluation of the subsurface soil stratigraphy and groundwater conditions in the area of the temporary construction office trailer compound and along the banks of the spillway canal.

Conducted site visits to observe existing site conditions and field mark planned boring locations, coordinated the clearance of underground utilities at the boring locations, and mobilized drilling equipment and personnel to the project site. Drilled 12 standard penetration test (SPT) borings from 30-36 feet and 2 hand auger borings to depths of 10 feet below the existing ground surface, collected bulk samples and visually classified the soil samples. Subsurface profiles showing the soil stratification, SPT N-values and groundwater depths at the boring locations were developed and presented.

### PROJECT ELEMENTS

- Reservoir and Stormwater Treatment Area, Approx. 12,000 acres
- Discharge Canal
- Spillway Structure

### RADISE ROLE:

#### GEOTECHNICAL ENGINEERING - Field Exploration/Testing and Laboratory Testing

- SPT Borings
- Hand Auger Borings
- Bulk Samples
- Geotechnical Data Report
- Moisture Content Tests
- Organic Content Tests
- Limerock Bearing Ratio Tests