

MONTGOMERY WOOD TREATMENT PLANT

Construction Grading Assurance

Alabama

Client:

Beazer East

Contract Value:

\$400,000

Performance Period:

2002–2003

Technical Areas:

- Remediation
- Civil Design
- Geotechnical Engineering, Geology, and Hydrogeology

Successes:

Project completed under challenging site conditions

Design was approved by Alabama Department of Environmental Management in record time without any complications



BACKGROUND

SES Staff were responsible for managing the design and providing construction grading assurance for an 800 foot long, 60 foot deep bentonite slurry wall along the banks of the Alabama River, in Montgomery Alabama.

SES ROLE

The work involved geotechnical boring and characterization of the bank stability and sediment properties, design of an access ramp and soil platform at water level, design of the slurry mix, preparation of the construction specifications, and the provision of full-time quality assurance during construction.

The project was complicated by having to provide a stable earthen platform along the edge of the river to support the large excavator required to install the relatively deep trench. SES staff worked with the contractor to field engineer a cost-effective construction method. Past experience SES had in managing construction of soft mine tailings facilities was instrumental in providing the confidence necessary to proceed with construction.



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