



DRILLING SERVICES

Froehling & Robertson, Inc. has been providing reliable, high-quality geotechnical drilling services backed by the most accurate laboratory testing for over 70 years. To accommodate the needs of our clients, F&R maintains a highly mobile and strategically located fleet of drill rigs throughout our Mid-Atlantic service area. In addition, F&R's drilling staff is among the most capable in the industry, being trained not only in applicable ASTM testing procedures and participating in an in-house quality control program, but also in using the latest global positioning system (GPS) and geographic information systems (GIS) technology to log the location of a site's boreholes and link it to other information about the work site. This combination of technical capability and professional know-how has allowed F&R to provide cost-effective sub-contract drilling services and full-service geotechnical and environmental engineering investigations on projects across the mid-Atlantic and beyond.

Your Project Is in Good Hands *F&R Knows the Drill*

Drill Rigs *and* Geotechnical Analysis

In order to perform subsurface explorations in even the most remote and difficult to access locations, F&R's fleet of drill rigs includes truck-mounted, rubber-tired ATV, skid-mounted, and track-mounted units. We can provide subsurface investigations utilizing solid stem augers, hollow stem augers and mud rotary techniques. In areas where the subsurface matrix consists of boulders and/or cobbles, F&R's fleet is equipped with casing advancer to penetrate difficult and challenging materials. For over-water drilling, our crew and fleet have barge drilling capabilities.



Sampling of the subsurface formations can be collected by split-spoon samplers, Shelby tube samplers, piston or G.V.S. samplers, pitcher samplers, denison samplers and by rock coring. In-situ testing of subsurface formations can include vane shear, soil pressure testing, and Dilatometer. F&R's Dilatometer is capable of obtaining strength properties of in-situ subsurface soils; thereby saving time and costs. Furthermore, through the installation of monitoring wells, F&R's drilling services are instrumental to the success of soil, groundwater and other hazardous materials investigations.

The MOST Skilled Drillers *in the Business*

Trained in ASTM standards and procedures, F&R's drilling professionals are OSHA health and safety trained and have extensive experience in all aspects of subsurface explorations in support of geotechnical engineering services.

Drilling Services Snapshot

- Standard Penetration Testing
- In-Situ Vane Shear Testing
- Pressuremeter Testing
- Dilatometer Testing
- Open Standpipe Installation
- Pore Pressure Piezometer
- Inclinator Instrumentation
- Groundwater Monitoring Well Installation



FROEHLING & ROBERTSON

Engineering Stability Since 1881