



# GEOTECHNICAL SERVICES

## SUBSURFACE INVESTIGATION AND INSTRUMENTATION TO SUPPORT YOUR DESIGN AND ENGINEERING DECISIONS

Geotechnical drilling is used for site investigations to determine subsurface soil properties. Reliable data is essential in defining geologic and geotechnical conditions of your site. Quality data from more than one source can help consultants and owners mitigate risk.

Cascade offers a full range of geotechnical drilling services for subsurface site investigation and placement of data collection instruments. Regardless of the lithology, location, Cascade Drilling has the right equipment, experience, and specialized expertise to do the job.

With our diverse drilling fleet and experienced crews, even the most difficult conditions are no challenge for us. Cascade offers sonic and conventional drilling technologies. Our fleet includes track and truck mounted equipment and limited access rigs for tight spaces, low overhead conditions, and over-water work allowing us to access almost any drill site.



### SITE INVESTIGATION

- Standard penetration testing and soil borings
- Soil sampling and coring
- Rock coring
- Permeability and pressure meter testing

### INSTRUMENTATION

- Piezometers
- Inclinometers
- Extensometers
- Tensiometers

### HEAVY INFRASTRUCTURE SUPPORT

- Dewatering system installation
- Micropiles
- Grouting support:
- Grout curtain installation
- Jet grout
- Confirmation borings
- Drain installation:
- Vertical drain installation
- Sand drain installation
- Cutoff wall
- Freeze wall