

Geotechnical Laboratory Testing

The geotechnical behaviour of soils is an important parameter in planning, investigation, design and realisation of a variety of building- and construction works. Geotechnical laboratory testing in many cases is the most efficient method of assessing soil characteristics and forms an important part of any soil investigation program. By performing suitable laboratory tests, the quality of geotechnical advice is greatly improved, costs in planning and design can be limited and risks during design and realisation can be mitigated.



In our geotechnical laboratory, equipment is available for proper handling of disturbed- and undisturbed soil samples. A variety of geotechnical tests can be performed. Tests are carried out in accordance with national or international standards. Laboratory results are presented in a standard reporting layout. Marine Sampling Holland can assist in establishing a soil sampling- and laboratory testing program. If required, additional processing of laboratory results can be done. On request, alternative test procedures can be followed. Amongst others, the following tests are available:

Classification test:

- Sample classification
- Unit weight and Watercontent
- Density of solid particles
- Particle size distribution
- Atterberg limits
- Organic contents
- Shape of grains (Powers)
- Torvane test
- Pocket Penetrotest

Oedometer test

- Coefficient of consolidation
- Load and reload

- Determination of different compressibility Characteristics

Triaxial test

- Unconsolidated Undrained test (UU)
- Consolidated Drained test (CD)
- Consolidated Undrained test (CU)
- Determination of critical density

Permeability

- Falling Head
- Constant Head

Foundation/Stability

- Proctor test
- Determination of in-situ density

Several

- Scaled colour photograph of undisturbed samples

Marine Sampling Holland has a (10-ft) containerised mobile laboratory available for on-board (off-shore) or on-site laboratory services. This mobile laboratory is available for deployment on projects where initial laboratory results have to be available instantly.



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