



SERVICE DATA SHEET

Sampling Services

The ability to recover samples of a specific type largely depends on the ground conditions encountered. Allied Exploration & Geotechnics Limited (AEG) offers a wide diversity of sampling techniques and systems across its in-house intrusive investigation services (i.e. cable percussion, dynamic, mini-tracked window/windowless, rotary and trial pitting). Class performance of sampling relates to the material type, investigation methodology used, sampling approach and the in-situ conditions, specifically the groundwater circumstances.

The most commonly used sampling methods are outlined below for the recovery of soil and rock materials.

Soil Sampling

- ◆ Standard open-drive (U100, U100T 'undisturbed' sampling (Class 1 or 2) or modified steel U100 sampling for stiff glacial soils (Class 2) dependent on in-situ soil conditions. Thin-walled (Shelby) sampling in low to medium strength fine grained soils (Class 1) in cable percussion and window sample holes.
- ◆ Piston sampling at 100mm, 150mm and 250mm diameters in fragile/soft ground conditions (Class 1) in cable percussion and dynamic exploratory holes. Undisturbed block sampling in open excavations (Class 1).
- ◆ Standard 1m liner samples (Class 4) using either dynamic or window sample holes techniques in cohesive (fine grained) and granular deposits. Small disturbed (Class 4) and bulk disturbed sampling (Class 4 or 5) depending on sampling conditions. Groundwater and environmental sampling for metals, volatile and semi-volatile organic determinants.

Rock Sampling

- ◆ Various lined and unlined rotary coring diameters up to 'S' (145mm OD) (Category A & B - BS EN ISO 22475-1: 2006), including Geobore 'S' Wireline drilling (Category A) in stiff glacial soils and weak weathered rock deposits. Air, mist, water, polymer and mud drilling flush depending on application and in-situ conditions to maximise core recovery. 100mm dynamic sampling (Class 3 or 4) using rotary rig plant and integrated drive systems.



Summary

Fully competent and trained (to NVQ level 2 and BDA audited) site operatives with the professionalism and know how that ensures that all practicable measures are taken to achieve high levels of rock and soil recovery.

We offer a comprehensive range of sampling systems suitable to UK ground conditions and compliant with BS EN ISO 22475-1: 2006.

Operatives can advise on the best approach to take in challenging sampling conditions, or can advise on these aspects if required to provide early technical involvement.

Company plant and equipment is fully serviced in accordance with current UK health and safety legislation.

Benefits

- Experienced and trained site operatives.
- Wide range of sampling systems available in order to address an extensive range of soil and rock conditions.
- Sampling systems can be configured to suit special requirements and ground conditions to enhance material recovery or investigation plant type.
- High standards of sample administration, transportation, storage in order to fulfill our duty of care obligations.
- In-house laboratory services.

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