

GEA SITE INVESTIGATION FACTSHEET

No 3: Terrier Drive Sampling Rig



We are making increasing use of the new range of open-drive sampling rigs, which in terms of cost and rate of production fit between window sampling and traditional cable percussion drilling.

These rigs, of which the Terrier is the most commonly used by GEA, have the distinct advantage over window sampling of being able to install a borehole casing. This allows boreholes to be drilled in granular soils, and standpipes for soil gas and ground water monitoring to be installed in the completed borehole.



The technique provides a continuous sample in a PVC sleeve liner. The liner can either be transported directly to the laboratory for strength testing as an undisturbed sample, or for contamination testing, providing a high degree of protection against cross-contamination. Alternatively the liners can be cut open on site for inspection by our engineer and the recovery of disturbed samples.



The rig can also be used to recover conventional “U100” samples and Standard Penetration Tests (SPTs) can be carried out in the boreholes. The method is therefore ideal as a means of sampling and testing a range of soils to a depth of about 6 m and, with five or six boreholes achievable to this depth in a day on site the Terrier provides a highly cost-effective method of investigation.

The equipment is highly manoeuvrable and, for very difficult access, the mast assembly can be detached from the crawler and manhandled to the required location. The rig can also carry out concrete coring and where sampler progress is prevented by dense soils dynamic probing can be used to extend the depth of investigation.

For further information on this or any of our wide range of ground investigation solutions please contact one of our three offices.

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