



GROUND INVESTIGATION SERVICES FOR THE UTILITIES INDUSTRY

Geotechnical Engineering Ltd has carried out a variety of projects on earth fill reservoirs across the UK for a number of water companies. The use of our in-house designed slope climbing rigs means that boreholes can now be formed safely on slopes previously only accessible using expensive scaffold platforms and cranes.



The 'P45' is a dynamic sampling rig with the added capability of dynamic probing and the 'P60' is a dual purpose rig which can be used for continuous dynamic sampling and rotary coring meaning there is no longer the requirement for conventional shell and auger with rotary follow on.

Both rigs are operated by radio remote control with a number of additional safety features and if required, can be tethered into position using an on board winching system and ground anchors.



We also have a fleet of 16 dual purpose tracked 'Pioneer' drilling rigs for work on flat ground which are also fitted with a 10" diameter concrete coring attachment for intrusive works on spillways.

In addition we have a fleet of terrier rigs for shallow ground investigations on WTW sites where access can be an issue. The mast can be detached from the main body to drill in normally inaccessible positions when required and hand held window sampling can be used in the most extreme cases.



For further details please contact: Emma Lowe emma.lowe@geoeng.co.uk
Or visit our website www.geoeng.co.uk



All of the rigs (with the exception of hand held) are capable of carrying out SPTs and CPTs and taking 70mm diameter undisturbed samples. We can also install a range of instruments in the boreholes including inclinometers, extensometers, standpipes and piezometers (BAT, VW and standard).

In addition we also have a dedicated monitoring team who can read the instruments and feed the data back in a variety of formats.

GEL has a team of geotechnical and geo-environmental engineers and offers a consultancy service for all your factual and interpretive reporting needs. We also have an in-house UKAS accredited laboratory offering a range of geotechnical tests with a large number of triaxial cells for all total and effective stress requirements.

If you would like to know more please contact us and we will be happy to discuss your project with you.



The table below gives a summary of our rigs' capabilities:

Rig Type	Strata	Ground	Average Depth	Max. Diameter
P45	Soils	Slope & Flat	10m	113mm
P60	Soil & Rock	Slope & Flat	30m	128mm
Pioneer	Soil & Rock	Flat	80m	128mm
Terrier	Soil	Flat	8-10m	113mm

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