



GROUND INVESTIGATION SERVICES FOR HIGHWAYS

Geotechnical Engineering Ltd has carried out a variety of projects on highways and motorways across the UK for Highways England, their agents and local authorities.

We have a fleet of 16 tracked 'Pioneer' dynamic sampling/rotary coring rigs for work on flat ground. They can be fitted with a 10" diameter concrete coring attachment for intrusive works through the carriageway, if required.



In addition we have a fleet of Terrier rigs for shallow ground investigations. The mast on these rigs can be detached from the main body to drill in normally inaccessible positions. We have the capability to deploy hand held window sampling equipment in the most extreme cases.

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. 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 on slopes using an on-board winching system and ground anchors.

All of the rigs 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. We have a dedicated monitoring team, who can read the instruments and feed the data back in a variety of formats, as required.

Site vehicles and personnel are compliant with working on the highway, including double flashing light bar beacon, chevrons, motorway maintenance stickers and full personal protective equipment (PPE). Mobile welfare facilities can be provided with all rig units.

In addition we have the capacity to supply our own vehicles and welfare units, fitted with reversing cameras.



GEL has a team of over thirty-five professional staff specializing in geotechnical and geo-environmental engineering. Both departments offer a service for all designing, planning, supervising and reporting ground investigations from small trial pitting projects to multi-million pound motorway schemes. We also have an in-house ISO 17025 and UKAS accredited laboratory offering a comprehensive 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 of our capabilities please contact us and we will be more than happy to discuss your project with you.



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