

STAFF RESOURCES

- 50 specialist highly trained technicians, chemists, quality supervisors and managers
- UK wide coverage – UKAS accredited laboratories at Airdrie, Birmingham, and Chesham.

ROUTINE GEOTECHNICAL TESTING

- 60 No. oedometer consolidation cells
- 26 No. quick undrained triaxial Rigs
- 11 No. liquid and plastic limit cone penetrometers
- 7 No. laboratory CBR machines

In addition we have a comprehensive range of equipment to undertake all BS1377: 1990 classification, compaction-related, compressibility, permeability and durability tests.

EFFECTIVE STRESS, ROWE CONSOLIDATION & TRIAXIAL PERMEABILITY TESTING

- 92 No. cells available covering 100mm, 75mm and 38mm diameter specimens
- 4 No. Rowe cells

Generally used for determining slope stability of embankments and assessing the integrity of landfill liners.

LARGE SHEAR BOX

- 3 No. 300mm square machines
- 4 No. ring shear machines

This specialised apparatus is used for assessing the slope stability of coarse granular materials.

SMALL SHEAR BOX

- 14 No. machines covering 60mm and 100mm square specimens

Used for determining the slope stability of fine to medium grained granular and cohesive soils (peak and residual parameters).

LARGE BOX PERMEAMETER

- 1 No. 300mm x 300mm x 1000mm machine

This highly specialised apparatus is used for determination of permeability of medium to coarse-grained soils particularly in relation to road drainage layers.

LOS ANGELES ABRASION TESTING

- 1 No. machine

The Los Angeles test is used to determine the resistance of coarse aggregate to fragmentation.

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NUCLEAR DENSITY GAUGE HIRE

- 10 No. gauges, complete with radiation survey meter, in the hire fleet

We provide a UK-wide service from our Chesham laboratory for this rapid moisture content, bulk and dry density test method for monitoring site compaction during earthworks.

SITE TESTING

- 12 No. nuclear densometers
- 10 No. moisture condition apparatus (MCV)
- 8 No. sand replacement density apparatus
- 6 No. plate load testing rigs (100mm, 300mm, 450mm and 610mm diameter plates)
- 6 No. CBR testing rigs
- over 50 No. core cutters
- zone test capability

Utilised for testing during ground investigations, site reprofiling and road construction works. As part of our service to house builders and developers we also undertake BRE Digest 365 soakaway and BS 6297 percolation testing.

ENVIRONMENTAL TESTING

- GC/MS, ICP, UVVIS, GC, GFAA Instrumentation.

We have extensive UKAS/MCERTS analytical chemistry laboratory facilities for contaminated land and groundwater analysis, as well as concrete, cement and the more routine chemical and electrochemical testing to BS1377: 1990.

ROCK, AGGREGATE, AND CONCRETE TESTING

- 5 No. Point Load Test Apparatus
- 3 No. Compression Machines
- Los angles Coefficient (LAC)
- Aggregate Impact Value (AIV)
- 10 Percent Fines (TFV)
- Aggregate Crushing Value (ACV)
- Flakiness Index (FI)
- Magnesium Sulphate Soundness
- Slake Durability
- Water Absorption & Particle Density
- Aggregate Grading

We have the equipment to undertake a wide range of tests in accordance with ISRM, ASTM and British and European Standards. Our Birmingham laboratory provides a concrete testing and analysis service.

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