


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

| | | |
|--|--|---|
|  1265 Accredited to ISO/IEC 17025:2017 | Soil Engineering Geoservices Limited Issue No: 032 Issue date: 08 June 2020 | |
| | Parkside Lane Dewsbury Road Leeds LS11 5SX | Contact: Mr K Walker Tel: +44 (0)113 385 9157 Fax: +44 (0)113 276 0472 E-Mail: Kevin.Walker@soil-engineering.co.uk Website: www.soil-engineering.co.uk |
| Testing performed by the Organisation at the locations specified below | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | | Activity | Location code |
|---|-------------------------------|---|---------------|
| Address Parkside Lane Dewsbury Road Leeds LS11 5SX | Contact Mr K Walker | Testing: Aggregates; physical tests Rock; physical & mechanical tests Soils; physical & mechanical tests | Laboratory |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|---|---|---------------|
| AGGREGATES | Magnesium sulphate test | BS EN 1367-2: 2009 | Laboratory |
| ROCK | Point load strength and anisotropy indices | ISRM Commission on Testing Methods. Suggested Method for Determining Point Load Strength 1985 | Laboratory |
| | Water content | ISRM Suggested Methods - Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |
| | Porosity and density - by saturation and calliper techniques | ISRM Suggested Methods - Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |
| | Porosity and density - by saturation and buoyancy techniques | ISRM Suggested Methods - Rock Characterization Testing and Monitoring, Ed. E T Brown - 1981 | Laboratory |
| | Slake-durability index | ISRM Suggested Methods - Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |
| | Uniaxial compressive strength | ISRM Suggested Methods – Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |
| | Strength and deformability under uniaxial compression (Young's Modulus and Poisson's Ratio) | ISRM Suggested Methods – Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |
| | Determination of Schmidt rebound hardness. | ISRM Suggested Methods – Rock Characterization Testing and Monitoring. Ed. E T Brown - 1981 | Laboratory |



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| GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil | Water content | BS EN ISO 17892-1:2014 | Laboratory |
| | Density - linear measurement method | BS EN ISO 17892-2:2014 | Laboratory |
| | Density - immersion in fluid method | BS EN ISO 17892-2:2014 | Laboratory |
| | Density – fluid displacement method | BS EN ISO 17892-2:2014 | Laboratory |
| | Particle density - fluid pycnometer method | BS EN ISO 17892-3:2015 | Laboratory |
| | Particle size distribution - sieving method | BS EN ISO 17892-4:2016 | Laboratory |
| | Particle size distribution - hydrometer method | BS EN ISO 17892-4:2016 | Laboratory |
| | Particle size distribution - pipette method | BS EN ISO 17892-4:2016 | Laboratory |
| | Liquid limit – fall cone method | BS EN ISO 17892-12:2018 | Laboratory |
| | Plastic limit | BS EN ISO 17892-12:2018 | Laboratory |
| | Plasticity Index | BS EN ISO 17892-12:2018 | Laboratory |



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| SOILS for civil engineering purposes | Moisture content - oven drying method | BS 1377:Part 2:1990 | Laboratory |
| | Saturation moisture content of chalk | BS 1377:Part 2:1990 | Laboratory |
| | Liquid limit - cone penetrometer | BS 1377:Part 2:1990 | Laboratory |
| | Liquid limit - cone penetrometer - one point | BS 1377:Part 2:1990 | Laboratory |
| | Plastic limit | BS 1377:Part 2:1990 | Laboratory |
| | Plasticity index and liquidity index | BS 1377:Part 2:1990 | Laboratory |
| | Linear shrinkage | BS 1377:Part 2:1990 | Laboratory |
| | Density - linear measurement | BS 1377:Part 2:1990 | Laboratory |
| | Density - immersion in water | BS 1377:Part 2:1990 | Laboratory |
| | Density - water displacement | BS 1377:Part 2:1990 | Laboratory |
| | Particle density - gas jar | BS 1377:Part 2:1990 | Laboratory |
| | Particle density - small pyknometer | BS 1377:Part 2:1990 | Laboratory |
| | Particle size distribution - wet sieving | BS 1377:Part 2:1990 | Laboratory |
| | Particle size distribution - dry sieving | BS 1377:Part 2:1990 | Laboratory |
| Particle size distribution - sedimentation - pipette method | BS 1377:Part 2:1990 | Laboratory | |
| Particle size distribution - sedimentation - hydrometer method | BS 1377:Part 2:1990 | Laboratory | |



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| SOILS for civil engineering purposes (cont'd) | Dry density/moisture content relationship (2.5 kg rammer) | BS 1377:Part 4:1990 | Laboratory |
| | Dry density/moisture content relationship (4.5 kg rammer) | BS 1377:Part 4:1990 | Laboratory |
| | Dry density/moisture content relationship (vibrating hammer) | BS 1377:Part 4:1990 | Laboratory |
| | Moisture condition value (MCV) | BS 1377:Part 4:1990 | Laboratory |
| | Moisture condition value (MCV) | TRL Report 273 : Use and application of the MCA with particular reference to glacial tills. (G D Matheson & M G Winter) | Laboratory |
| | Chalk crushing value | BS 1377:Part 4:1990 | Laboratory |
| | California Bearing Ratio (CBR) | BS 1377:Part 4:1990 | Laboratory |
| | California Bearing Ratio (CBR) - soaked | BS 1377:Part 4:1990 | Laboratory |
| | One-dimensional consolidation properties | BS 1377:Part 5:1990 | Laboratory |
| | Determination of swelling and collapse characteristics – | BS 1377:Part 5: 1990 | Laboratory |
| | Permeability - constant head method | BS 1377:Part 5:1990 | Laboratory |
| | Consolidation properties using a hydraulic cell | BS 1377:Part 6:1990 | Laboratory |
| | Permeability in a hydraulic consolidation cell | BS 1377:Part 6:1990 | Laboratory |
| | Permeability in a triaxial cell | BS 1377:Part 6:1990 | Laboratory |
| Shear strength - small shear box | BS 1377:Part 7:1990 | Laboratory | |



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| SOILS for civil engineering purposes (cont'd) | Residual strength - small ring shear apparatus | BS 1377:Part 7:1990 | Laboratory |
| | Unconfined compressive strength - load frame method | BS 1377:Part 7:1990 | Laboratory |
| | Undrained shear strength - triaxial compression without measurement of pore pressure | BS 1377:Part 7:1990 | Laboratory |
| | Shear strength - large shear box | BS 1377 Part 7:1990 | Laboratory |
| | Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure | BS 1377:Part 7:1990 | Laboratory |
| | Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure | BS 1377:Part 8:1990 | Laboratory |
| | Effective shear strength - consolidated-drained triaxial compression test with measurement of volume change | BS 1377:Part 8:1990 | Laboratory |
| | Effective shear strength - consolidated drained multistage triaxial compression test with measurement of volume change | Documented In-House Method based on K H Head: Manual of Soils Testing, Vol 3 | Laboratory |
| Effective shear strength - consolidated undrained multistage triaxial compression test with measurement of pore pressure | Documented In-House Method based on K H Head: Manual of Soils Testing, Vol 3 | Laboratory | |
| END | | | |