Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

1774

Accredited to ISO/IEC 17025:2017

Structural Soils Ltd

Issue No: 045 **Issue date:** 07 July 2025

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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 1A Princess Street Bedminster Bristol BS3 4AG	**Local contact** Dr Dimitris Xirouchakis Dimitris.Xirouchakis@soils.co.uk	Concrete - hardened Rock Soils including Geotechnical investigation and testing Unbound & hydraulically bound mixtures	Bristol
Address The Potteries Pottery Street Castleford West Yorkshire WF10 1NJ	**Local contact** Mr Luke Fisher Luke.Fisher@soils.co.uk	Aggregates Soils including Geotechnical investigation and testing Unbound & hydraulically bound mixtures:	Castleford
Address 18 Frogmore Road Hemel Hempstead Herts HP3 9RT	**Local contact** Ms Sharon Cairns Sharon.Cairns@soils.co.uk	Rock Soils including Geotechnical investigation and testing	Hemel Hempstead
Address Pony Pass Quarry Falkland Islands FIQQ 1ZZ	**Local contact** Ms Carolina Gallardo cagallardo@rsk.co.fk	Aggregates	Falkland Islands

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All locations suitable for the activities listed	**Site contact** Tim.Fay@soils.co.uk Matthew.Dorran@soils.co.uk	Soils	Site

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Contents

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bristol Laboratory			
CONCRETE - hardened	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	Laboratory
ROCK	Water content	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	Uniaxial compressive strength	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	Porosity and density - by saturation and buoyancy techniques	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	End preparation of rock cores	ASTM D 4543-19	Laboratory
	Deformability under uniaxial compression	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	Point load strength	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROCK (cont'd)	Slake Durability Index	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Laboratory
	Cerchar Abrasivity Test	The ISRM Suggested Methods for Rock Characterization, Testing and Monitoring: 2007-2014	Laboratory
	Brazilian Tensile Strength	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Laboratory
	Standard Test Method for Splitting Tensile Strength of Intact Rock Core Specimens	ASTM D3967 - 16	Laboratory
	Standard Test Method for Laboratory Determination of Abrasiveness of Rock Using the CERCHAR Method	ASTM D7625 - 10	Laboratory
	P & S Wave	ASTM D2845-08	Laboratory
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Saturation moisture content of chalk	BS1377-2:2022	Laboratory
	Liquid limit - cone penetrometer - one point	BS1377-2:2022	Laboratory
	Density - linear measurement	BS1377-2:2022	Laboratory
	Linear Shrinkage	BS1377-2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Particle density - gas jar	BS1377-2:2022	Laboratory
	Dry density/water content relationship (2.5 kg rammer)	BS1377-2:2022	Laboratory
	Dry density/water content relationship (4.5 kg rammer)	BS1377-2:2022	Laboratory
	California Bearing Ratio (CBR)	BS1377-2:2022	Laboratory
	Measurement of swelling of soaked CBR specimen	BS1377-2:2022	Laboratory
	MCV - natural water content	BS1377-2:2022	Laboratory
	MCV/water content relation	BS1377-2:2022	Laboratory
	Shear Strength by Laboratory Vane	BS 1377-2:2022	Laboratory
	Unconsolidated undrained triaxial test	BS 1377-2:2022	Laboratory
	Unconsolidated undrained triaxial test	BS 1377-2:2022	Laboratory
	Consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377-2:2022	Laboratory
	Consolidated-drained triaxial compression test with measurement of volume change	BS 1377-2:2022	Laboratory
	One-dimensional consolidation properties	BS 1377-2:2022	Laboratory
	Determination of Swelling and Collapse Characteristics	BS 1377-2:2022	Laboratory
	Shear strength – small shearbox	BS 1377-2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Shear strength – large shearbox	BS 1377-2:2022	Laboratory
	Effective angle of internal friction and effective cohesion	Specification for Highway Works, HMSO February 2016 Clause 636 using Large Shearbox	Laboratory
	Residual strength - small ring shear apparatus	BS 1377-2:2022	Laboratory
	Ring Shear	ICP Design Methods for Driven Piles in Sands and Clays:2005 (Appendix A)	Laboratory
	Standard test method for determination of shear wave velocity and initial shear modulus in soil specimens using bender elements	ASTM D8295-19	Laboratory
	Standard test method for consolidated undrained direct simple shear testing of fine-grained soils	ASTM D6528-17	Laboratory
	One-dimensional consolidation properties of saturated cohesive soils using controlled-strain loading	ASTM D1/D4186M-20E1	Laboratory
	Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure (with calculation of thermal resistivity)	ASTM D5334 - 14	Laboratory
	Measurement of Electrical Resistivity - Wenner probe method	BS 1377-3: 2018	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	ASTM G57 - 06(2012)	Laboratory
	Standard Test Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method	ASTM G187 - 18	Laboratory
	Water content	BS EN ISO 17892-1:2014 +A1:2022	Laboratory
	Determination of Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Laboratory
	Determination of Bulk Density -immersion in fluid method	BS EN ISO 17892-2:2014	Laboratory
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Determination of particle density – fluid pycnometer method	BS EN ISO 17892-3:2015	Laboratory
	Determination of particle size distribution -sieving method -pipette method -hydrometer method	BS EN ISO 17892-4:2016	Laboratory
	Incremental loading oedometer test	BS EN ISO 17892-5: 2017	Laboratory
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	Laboratory
	Consolidated triaxial compression tests on water saturated soils	BS EN ISO 17892-9:2018	Laboratory
	Effective shear strength – Consolidated Anisotropic Undrained or Drained Triaxial tests in Compression or Extension	In-house method based on ISO17892-9:2018	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Direct shear tests – Small Shearbox	BS EN ISO 17892-10:2018	Laboratory
	Direct shear tests – Large Shearbox	BS EN ISO 17892-10:2018	Laboratory
	Direct Shear Tests – Ring Shear Test	BS EN ISO 17892-10:2018	Laboratory
	Determination of falling head permeability in oedometer	BS EN ISO 17892-11: 2019	Laboratory
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Determination of plastic limit	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Test methods for the determination of the laboratory reference density and water content. Proctor compaction.	BS EN 13286-2:2010	Laboratory
	Test method for the determination of California bearing ratio, immediate bearing index and linear swelling	EN 13286-47:2021	Laboratory

End of Bristol Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Castleford Laboratory			
AGGREGATES	Sample reduction by quartering	BS EN 932-2:1999	Laboratory
	Sample reduction using a riffle box	BS EN 932-2:1999	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Flakiness index	BS EN 933-3:2012	Laboratory
	Assessment of fines - methylene blue test	BS EN 933-9:2022	Laboratory
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	Laboratory
	Resistance to wear (Micro Deval)	BS EN 1097-1:2011	Laboratory
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Laboratory
	Loose Bulk Density	BS EN 1097-3:1998	Laboratory
	Water content	BS EN 1097-5:2008	Laboratory
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2022	Laboratory
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2022	Laboratory
	Magnesium Sulphate Test	BS EN 1367-2:2009	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Liquid limit - cone penetrometer - one point	BS1377-2:2022	Laboratory
	Linear Shrinkage	BS1377-2:2022	Laboratory
	Particle density - gas jar	BS1377-2:2022	Laboratory
	Dry density/water content relationship (2.5 kg rammer)	BS1377-2:2022	Laboratory
	Dry density/water content relationship (4.5 kg rammer)	BS1377-2:2022	Laboratory
	Dry density/water content relationship (vibrating hammer)	BS1377-2:2022	Laboratory
	Maximum density of sandy soils	BS1377-2:2022	Laboratory
	Minimum density of sandy soils	BS1377-2:2022	Laboratory
	Maximum density of gravelly soils	BS1377-2:2022	Laboratory
	Minimum density of gravelly soils	BS1377-2:2022	Laboratory
	California Bearing Ratio (CBR)	BS1377-2:2022	Laboratory
	Measurement of swelling of soaked CBR specimen	BS1377-2:2022	Laboratory
	MCV - natural water content	BS1377-2:2022	Laboratory
	MCV/water content relation	BS1377-2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Unconsolidated undrained triaxial test	BS 1377-2:2022	Laboratory
	One-dimensional consolidation properties	BS 1377-2:2022	Laboratory
	Shear strength – small shearbox	BS 1377-2:2022	Laboratory
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014 +A1:2022	Laboratory
	Determination of Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Laboratory
	Determination of particle density – fluid pycnometer method	BS EN ISO 17892-3:2015	Laboratory
	Determination of particle size distribution -sieving method -pipette method -hydrometer method	BS EN ISO 17892-4:2016	Laboratory
	Incremental loading oedometer test	BS EN ISO 17892-5: 2017	Laboratory
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	Laboratory
	Direct shear tests – Small Shearbox	BS EN ISO 17892-10:2018	Laboratory
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Determination of plastic limit	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018 +A2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Laboratory
	Test methods for the determination of the laboratory reference density and water content. Proctor compaction.	BS EN 13286-2:2010	Laboratory
	Test method for the determination of California bearing ratio, immediate bearing index and linear swelling	EN 13286-47:2021	Laboratory

End of Castleford Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Hemel Hempstead Laboratory			
ROCK	Water content	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	Porosity and density - by saturation and buoyancy techniques	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
	Point load strength	The Complete ISRM Suggested Methods for Rock Characterisation, Testing and Monitoring: 1974-2006. Editors: R Ulusay & J A Hudson	Laboratory
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Saturation moisture content of chalk	BS1377-2:2022	Laboratory
	Chalk Crushing Value	BS1377-2:2022	Laboratory
	Liquid limit - cone penetrometer - one point	BS1377-2:2022	Laboratory
	Linear Shrinkage	BS1377-2:2022	Laboratory
	Particle density - gas jar	BS1377-2:2022	Laboratory
	Dry density/water content relationship (2.5 kg rammer)	BS1377-2:2022	Laboratory
	Dry density/water content relationship (4.5 kg rammer)	BS1377-2:2022	Laboratory
	California Bearing Ratio (CBR)	BS1377-2:2022	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Measurement of swelling of soaked CBR specimen	BS1377-2:2022	Laboratory
	MCV - natural water content	BS1377-2:2022	Laboratory
	MCV/water content relation	BS1377-2:2022	Laboratory
	One-dimensional consolidation properties	BS 1377-2:2022	Laboratory
	Unconsolidated undrained triaxial test	BS 1377-2:2022	Laboratory
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014 +A1:2022	Laboratory
	Determination of Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Laboratory
	Determination of particle density – fluid pycnometer method	BS EN ISO 17892-3:2015	Laboratory
	Determination of particle size distribution -sieving method -pipette method -hydrometer method	BS EN ISO 17892-4:2016	Laboratory
	Incremental loading oedometer test	BS EN ISO 17892-5: 2017	Laboratory
	Unconsolidated undrained triaxial test	BS EN ISO 17892-8:2018	Laboratory
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Determination of plastic limit	BS EN ISO 17892-12 2018 +A2:2022	Laboratory
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018 +A2:2022	Laboratory

End of Hemel Hempstead Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Falkland Islands Laboratory			
AGGREGATES	Sample reduction using a riffle box	BS EN 932-2:1999	Laboratory
	Sample reduction to a specified mass within a small tolerance	BS EN 932-2:1999	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Flakiness index	BS EN 933-3:2012	Laboratory
	Resistance to wear (Micro Deval)	BS EN 1097-1:2011	Laboratory
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Laboratory
	Water content	BS EN 1097-5:2008	Laboratory
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	Laboratory
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Laboratory
End of Falkland Islands Laboratory			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Activities Performed Away from Permanent Locations			
SOILS for civil engineering purposes	In-Situ Thermal Resistivity	IEEE 442-2017	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	Site
	Plate Loading	DIN 18134:2012-04	Site
	Core cutter density	BS 1377-9:1990	Site
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	Site
End of Activities Performed Away from Permanent Locations			