Schedule of Accreditation

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Ian Farmer Associates (1998) Ltd
Trading as Ian Farmer Associates

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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 14 Faraday Close District 15 Pattinson North Industrial Estate Washington Tyne and Wear NE38 8QJ	**Local contact** Mr C Lilley Tel: +44 (0)191 416 6375 Fax: +44 (0)191 419 1578 Email:washington@ianfarmer.co.uk	Testing: Aggregates - Mechanical & Physical Tests Concrete - Chemical, Mechanical & Physical Tests Soils - Chemical, Mechanical & Physical Tests	Newcastle

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Address All locations suitable for the activities listed	**Local contact** Mr C Lilley Tel: +44 (0)191 416 6375 Fax: +44 (0)191 419 1578 Email: washington@ianfarmer.co.uk	Testing: Concrete - Chemical, & Non-destructive Tests & Sampling Soils - Physical Tests	Site

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Methods for sampling - from stockpiles	BS EN 932-1:1997 Clause 8.8	Site (N)
	Ten per cent fines value - dry - particle size 10 mm and greater *(loads from 20 to 2000 kN)*	BS 812:Part 111:1990	Newcastle
	Ten per cent fines value - soaked - particle size 10 mm and greater *(loads from 20 to 2000 kN)*	BS 812:Part 111:1990	Newcastle
	Aggregate crushing value - particle size 10 mm and greater *(loads from 20 to 2000 kN)*	BS 812:Part 110:1990	Newcastle
	Frost-heave	BS 812:Part 124:1989	Newcastle
	Particle size distribution - sieving method	BS EN 933-1:1997	Newcastle
	Resistance to fragmentation by the Los Angeles Method	EN 1097-2:2010	Newcastle
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Newcastle
	Particle density and water absorption - particles between 4 mm and 31.5 mm	BS EN 1097-6:2000 Clause 8	Newcastle
	Particle density and water absorption - particles between 0.063 mm and 4 mm	BS EN 1097-6:2000 Clause 9	Newcastle
	Magnesium Sulphate Tests (excluding simple petrographical description)	BS EN 1367-2:2009	Newcastle
	Constituent materials in recycled aggregate and recycled concrete aggregate	Specification for Highway Works: 2004 - Clause 710	Newcastle

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Frost-heave	Specification for Highway Works, HMSO 2004	Newcastle
CONCRETE - hardened	Chloride content	BS 1881:Part 124:1988	Newcastle
	Sulphate content	BS 1881:Part 124:1988	Newcastle
	Compressive strength of cubes - including curing *(loads from 20 to 2000 kN)*	BS 1881:Part 116:1983 BS 1881:Part 111:1983	Newcastle
	Cored specimens - examining and testing in compression *(loads from 20 to 2000 kN)*	BS EN 12504-1:2009	Newcastle
	Density	BS 1881:Part 114:1983	Newcastle
	Density	BS EN 12390-7:2000	Newcastle
	Sampling of concrete by dust drilling	Documented In-House method No. 112, October 2002	Site (N)
	Carbonation	BRE Information Paper IP 6/81	Site (N)
	Resistivity	Documented In-House Method No. 109, September 2002	Site (N)
CONCRETE - reinforced	Location of reinforcement	BS 1881:Part 204:1988	Site (N)
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-91	Site (N)
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377:Part 2:1990	Newcastle
	Liquid limit - cone penetrometer	BS 1377:Part 2:1990	Newcastle
	Plastic limit	BS 1377:Part 2:1990	Newcastle
	Plasticity index and liquidity index	BS 1377:Part 2:1990	Newcastle
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	Newcastle

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 size distribution - dry sieving	BS 1377:Part 2:1990	Newcastle
	Particle size distribution - sedimentation - hydrometer method	BS 1377:Part 2:1990	Newcastle
	Particle size distribution - sedimentation - pipette method	BS 1377:Part 2:1990	Newcastle
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 4:1990	Newcastle
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 4:1990	Newcastle
	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	Newcastle
	Moisture condition value (MCV)	BS 1377:Part 4:1990	Newcastle
	MCV/moisture content relation	BS 1377:Part 4:1990	Newcastle
	California Bearing Ratio (CBR) *(loads from 0.2 to 30 kN)* *(loads from 1.0 to 10 kN*	BS 1377:Part 4:1990	Newcastle
	One-dimensional consolidation properties	BS 1377-5:1990	Newcastle
	Shear strength by direct shear (small shearbox apparatus) *(loads from 0.20 to 30 kN)*	BS 1377-7:1990	Newcastle
	Undrained shear strength - triaxial compression without measurement of pore pressure *(loads from 0.2 to 30 kN)* *(loads from 0.3 to 50 kN)*	BS 1377:Part 7:1990	Newcastle

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)	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure *(loads from 0.2 to 30 kN (loads from 0.3 to 50 kN)*	BS 1377:Part 7:1990	Newcastle
	Consolidated-undrained triaxial compression test with measurement of pore pressure *(loads from 0.20 to 30 kN)*	BS 1377-8:1990	Newcastle
	Consolidated-drained triaxial compression test with measurement of volume change *(loads from 0.20 to 30 kN)*	BS 1377-8:1990	Newcastle
	Mass loss on ignition	BS 1377:Part 3:1990	Newcastle
	Organic matter content	BS 1377:Part 3:1990	Newcastle
	Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3:1990	Newcastle
	pH value	BS 1377:Part 3:1990	Newcastle
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	Site
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377:Part 9:1990	Site
	In-situ density - core cutter method	BS 1377:Part 9:1990	Site
	In-situ density - nuclear method - compliance tests - comparative tests	BS 1377:Part 9:1990	Site

END