

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Norfolk Partnership Laboratory</h3>	
	Issue No: 035	Issue date: 25 November 2011
	County Hall Martineau Lane Norwich Norfolk NR1 2SG	Contact: Mr R J Noakes Tel: +44 (0)1603 222416 Fax: +44 (0)1603 222457 E-Mail: civil.laboratory@norfolk.gov.uk Website:
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				
<table border="0"> <tr> <td>Address</td> <td>Local contact</td> </tr> <tr> <td>County Hall Martineau Lane Norwich Norfolk NR1 2SG</td> <td>Mr R J Noakes</td> </tr> </table>	Address	Local contact	County Hall Martineau Lane Norwich Norfolk NR1 2SG	Mr R J Noakes	Testing: Aggregates - physical & chemical tests Bituminous Materials - physical tests Bituminous Mixtures - physical tests Concrete - mechanical, physical & Salt - physical & chemical tests Soils - mechanical, physical & chemical tests	Laboratory
Address	Local contact					
County Hall Martineau Lane Norwich Norfolk NR1 2SG	Mr R J Noakes					

Site activities performed away from the locations listed above:

Location details	Activity	Location code				
<table border="0"> <tr> <td>Address</td> <td>Local contact</td> </tr> <tr> <td>All locations suitable for the activities listed</td> <td>Mr R J Noakes</td> </tr> </table>	Address	Local contact	All locations suitable for the activities listed	Mr R J Noakes	Sampling: Bituminous mixtures Concrete (hardened). Testing: Concrete (hardened & reinforced) - chemical & non-destructive tests Road Pavement Surfaces - physical tests Soils - physical tests Stabilized Materials - physical tests	Site
Address	Local contact					
All locations suitable for the activities listed	Mr R J Noakes					



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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	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1:1990	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:1997	Laboratory
	Particle shape - flakiness index	BS EN 933-3:1997	Laboratory
	Shell content - Percentage of shells in coarse aggregate	BS EN 933-7:1998	Laboratory
	Resistance to fragmentation by the Los Angeles Method	EN 1097-2:2010	Laboratory
	Loose bulk density and voids	BS EN 1097-3:1998	Laboratory
	Particle density and water absorption for aggregate between 31.5 mm and 63 mm	BS EN 1097-6:2000	Laboratory
	Particle density and water absorption for aggregate between 4 mm and 31.5 mm	BS EN 1097-6:2000	Laboratory
	Particle density and water absorption for aggregate between 0.063 mm and 4 mm	BS EN 1097-6:2000	Laboratory
	Magnesium sulfate test	BS EN 1367-2:2009	Laboratory
	Chloride content using a nitric acid extract	BS 812:Part 117:1988	Laboratory
	Acid-soluble material content	BS 812:Part 119:1985	Laboratory
	Water-soluble sulfate content	BS EN 1744-1:2009	Laboratory
	Acid soluble sulfate content	BS EN 1744-1:2009	Laboratory
Water-soluble chloride salt content - Volhard method	BS EN 1744-1:2009	Laboratory	



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BITUMINOUS MATERIALS	Needle penetration - 25°C	BS EN 1426:2007	Laboratory
	Softening point - ring and ball method	BS EN 1427:2007	Laboratory
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2005	Laboratory
	Particle size distribution	BS EN 12697-2:2007	
	Bulk density - sealed specimen - by dimensions	BS EN 12697-6:2003	Laboratory
	Percentage refusal density (PRD)	BS EN 12697-32:2003 BS EN 12697-6:2003 BS EN 12697-9:2002	Laboratory
	Dimensions of a bituminous specimen	BS EN 12697-29:2002	Laboratory
	Hot Sand Test	BS EN 12697-37:2003	Laboratory
	Maximum density	BSI DD 228:1996	Laboratory
CONCRETE - hardened	Compressive strength of cubes - including curing (loads from 50 to 2500 kN)	BS EN 12390-3:2009 BS EN 12390-1:2000 BS EN 12390-2:2009	Laboratory
	Density	BS EN 12390-7:2009	Laboratory
	Cored specimens - examining and testing in compression (loads from 50 to 2500 kN)	BS EN 12504-1:2009	Laboratory
	Concrete drilling for dust samples	BRE Information Paper IP 21/86	Site
	Carbonation	BRE Information Paper IP 6/81	Site



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CONCRETE - reinforced	Location of reinforcement	BS 1881:Part 204:1988	Site
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-09	Site
	Half-cell potential of uncoated reinforcing steel in concrete	TRRL Applications Guide 9:1991	Site
ROAD PAVEMENT SURFACES	Texture depth - by the sand-patch method	BS 598:Part 105:2000	Site
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977 & Specification for Highway Works, HMSO November 2006 Clause 702	Site
	Sampling of finished material - core cutting method	BS 598- 100:1987	Site
	Measurement of layer thickness of bituminous materials & Visual examination of bituminous core samples	Documented In-House Method Site 12: 2007 based on the New Roads and Street Works Act (1991) (Specification for the Reinstatement of Openings in Highways) - 2 nd edition: June 2002	Laboratory or Site
SALT for spreading on highways for winter maintenance	Grading by sieve analysis	BS 3247:2011	Laboratory
	Moisture content	BS 3247:2011	Laboratory
	Matter insoluble in water	BS 3247:2011	Laboratory
	Chloride content	BS 3247:2011	Laboratory
	Soluble sulphate compounds	BS 3247:2011	Laboratory
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377:Part 2:1990	Laboratory
	Liquid limit - cone penetrometer	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



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SOILS for civil engineering purposes (cont'd)	Particle density - gas jar	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
	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
	California Bearing Ratio (CBR) (loads from 0.1 to 50 kN)	BS 1377:Part 4:1990	Laboratory
	One-dimensional consolidation properties	BS 1377:Part 5:1990	Laboratory
	Undrained shear strength - triaxial compression without measurement of pore pressure (loads from 0.1 to 50 kN)	BS 1377:Part 7:1990	Laboratory
Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure (loads from 0.1 to 50 kN)	BS 1377:Part 7:1990	Laboratory	



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SOILS for civil engineering purposes (cont'd)	Permeability - falling head method	Documented In-house Method No S2 of Site Investigation Procedures: October 1999 - based on Head, K H: Manual of Soil Laboratory Testing, Vol 2, Sect 10.7.2	Laboratory
	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1:1990	Laboratory
	Organic matter content	BS 1377:Part 3:1990	Laboratory
	Sulphate content of soil and ground water - gravimetric method	BS 1377:Part 3:1990	Laboratory
	Water-soluble chloride content	BS 1377:Part 3:1990	Laboratory
	Acid-soluble chloride content	BS 1377:Part 3:1990	Laboratory
	pH value	BS 1377:Part 3:1990	Laboratory
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	Site
	In-site density - core cutter method	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 9:1990	Site
	In-situ bulk density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site
In-situ bulk density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site	
STABILIZED MATERIALS for civil engineering purposes - cement-stabilized and lime-stabilized materials	In-situ bulk density - nuclear method by direct transmission - comparative tests	BS 1924:Part 2:1990	Site



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STABILIZED MATERIALS for civil engineering purposes - cement-stabilized and lime-stabilized materials (cont'd)	In-situ bulk density - nuclear method by direct transmission - compliance tests	BS 1924:Part 2:1990	Site
	In-situ bulk density - nuclear method by back scatter - compliance tests	BS 1924:Part 2:1990	Site
	In-situ bulk density - nuclear method by back scatter - comparative tests	BS 1924:Part 2:1990	Site
END			