Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0699

Accredited to ISO/IEC 17025:2017

Lincs Laboratory

Issue No: 050 **Issue date:** 07 June 2023

Laboratory Services Section
St George's Lane
Riseholme
Lincoln
LN2 2LQ

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Testing performed by the Organisation at the locations specified below

Lincs Laboratory, is accredited for a flexible scope that enables it to:
1) Update currently accredited test methods to the latest versions of those test methods using the procedures in Testing Operations Procedure M5.

Flexible Scope

Lincs Laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the test methods highlighted in the schedule. This may also include updated versions of the methods or standards listed, providing that:

(1) The updated method or standard does not introduce new principles of measurement.

(2) The updated method or standard does not require measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation.

Information about flexible scopes of accreditation is available in UKAS document Gen 4 and EA document EA-2/05.

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Laboratory Services Section St George's Lane Riseholme Lincoln LN2 2LQ **Local contact** Mr J **Corringan**	Testing: Aggregates - physical & chemical tests Bitumen Road Emulsions - physical tests Bituminous Materials - physical tests Bituminous Mixtures - mechanical & physical tests Concrete - mechanical & physical tests Salt - physical & chemical tests Soils – mechanical, physical chemical tests Stabilized Materials - mechanical & physical tests	Laboratory

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Testing performed by the Organisation at the locations specified

Site activities performed away from the locations listed above:

Location details		Activity	Location code
All locations suitable for the activities listed	**Local contact** Mr J **Corringan**	Sampling: Aggregates Bituminous Mixtures, and Testing: Bituminous Road Surfacing - physical tests Road Pavement Surfaces - physical tests Soils - physical tests Stabilized Materials - 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
	Frost-heave	BS 812:Part 124:2009	Laboratory
	Uniformity coefficient	Specification for Highway Works Table 6/1 footnote 5	Laboratory
	Particle size distribution - sieving method	BS EN 933-1:2012	Laboratory
	Particle shape - flakiness index	BS EN 933-3:2012	Laboratory
	Resistance to fragmentation by the Los Angeles method	BS EN 1097-2:2020	Laboratory
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	Laboratory
BITUMEN ROAD EMULSIONS (ANIONIC and CATIONIC)	Water and binder content	BS EN 1428:2012	Laboratory
	Efflux time	BS EN 12846-1:2011	Laboratory
BITUMINOUS MATERIALS	Needle penetration	BS EN 1426:2015	Laboratory
	Softening point - ring and ball method	BS EN 1427:2015	Laboratory
	Recovery of bitumen binders by dichloromethane extraction - rotary film evaporator method	BS EN 12697-3:2013 +A1 :2018	Laboratory
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from: - the material around the augers of the paver - workable heaps	BS EN 12697-27:2017	Site
	Sampling as laid material by coring	BS EN 12697-27:2017	Site
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Soluble binder content by recovery using bottle rolling machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	Laboratory
	Particle size distribution	BS EN 12697-2:2015 +A1 :2019	Laboratory
	Determination of the maximum density – volumetric procedure	BS EN 12697-5:2018	Laboratory
	Bulk density - dry - sealed specimen	BS EN 12697-6:2020	Laboratory
	Determination of void characteristics - volume determined by mass difference	BS EN 12697-8:2018	Laboratory
	Description of cores	Documented In-House Method No LLTM4:1996	Laboratory
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-1:2021 BS EN 12390-2:2019	Laboratory
	Density	BS EN 12390-7:2019	Laboratory
BITUMINOUS ROAD SURFACING	Texture depth - using a laser texture meter	Documented In-House Method No LLTM 44:2002,	Site
	Density of bituminous layers	Documented In-House Method No LLTM9:1995	Site
ROAD PAVEMENT SURFACES	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	Site
SALT for spreading on highways for winter maintenance	Moisture content	BS 3247:2011 + A1:2016	Laboratory
	Grading by sieve analysis	BS 3247:2011 + A1:2016	Laboratory
	Matter insoluble in water	BS 3247:2011 + A1:2016	Laboratory

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SALT for spreading on highways for winter maintenance (cont'd)	Chloride content	BS 3247:2011 + A1:2016	Laboratory
	Soluble sulphate compounds	BS 3247:2011 + A1:2016	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
	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
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	Laboratory
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 4:1990	Laboratory
	California Bearing Ratio (CBR) *– not including samples prepared using 4.5kg rammer*	BS 1377:Part 4:1990	Laboratory
	Measurement of swelling of soaked CBR specimen	BS 1377:Part 4:1990	Laboratory
	In-situ density - core cutter method	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

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)	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 9:1990	Site
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Laboratory
END			