Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

4161

Accredited to ISO/IEC 17025:2017

Construction Testing Solutions Ltd

Issue No: 073 **Issue date:** 15 January 2026

4 Oak Spinney Business Park
Ratby Lane
Leicester Forest East
Leicester
LE3 3AW

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Website: www.constructiontesting.co.uk

Testing performed by the Organisation at the locations specified below

Construction Testing Solutions Limited is accredited to conduct the activities detailed below, in accordance with their documented in-house procedure: Quality Procedure FXS issue 5 Rev

1. Establish Temporary Site laboratories to conduct the construction materials testing and sampling activities.
2. Transfer currently accredited test methods between the accredited locations listed on this schedule.

All testing and sampling relation to the above is references as **TEMP** under the location field on the schedule.

Locations covered by the organisation and their relevant activities

Laboratory location:

Location details		Activity
Doncaster Bootham Lane Industrial Estate Bootham Lane Dunscroft Doncaster DN7 4JU	**Site Contact:** Mr Richard Ward Tel: +44 (0)1302 352652 Fax: +44 (0)1302 352700 E-Mail: richard.ward@constructiontesting.co.uk	Aggregates Bituminous Mixtures Concrete – fresh & hardened Reinforced & structural Soil, Stabilised soils Unbound and hydraulically bound mixtures
Woodsmith Woodsmith Mine Sneaton Near Whitby North Yorkshire Y022 5JB	**Site Contact:** Mr Matt Mills Tel: +44 (0)7904 170720 E-Mail: matt.mills@constructiontesting.co.uk	Concrete - hardened Soils
Leicester Old Mill Lane An Annex of 7-11 Harding Street Leicester LE1 4DH	**Chemistry:** Contact: David Ratcliffe Tel: (+44) 7920 413664 Email: david.ratcliffe@constructiontesting.co.uk	Testing of aggregates, concrete and mortar and soils for civil engineering purposes. Environmental analysis and chemical testing including the Environment Agency MCERTS performance standard for soils. Waters Microbiology testing of waters Identification of asbestos in bulk materials and soils Health and Hygiene Asbestos – All Support Functions

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Location details		**Activity**
Leicester Unit 6 Oak Spinney Park Ratby Lane Leicester LE3 3AW	**Structures & Pavements:** Contact: Acxit Babu Tel: (+44) 7872 147843 Email: acxit.babu@constructiontesting.co.uk	Concrete –hardened
Bristol 1280 Aztec West Business Park Bristol BS32 4SG	**Local Contact:** Mr Francois Taljaard Tel: +44 (0)1302 352652 Email: francois.taljaard@constructiontesting.co.uk	Concrete – fresh & hardened Soils Unbound and hydraulically bound mixtures
Harrietsham Northdown House Ashford Road Harrietsham Kent ME17 1QW	**Site Contact:** Mr Matt Butt Tel: +44 (0)1622 858545 Email: matt.butt@constructiontesting.co.uk **Laboratory Contact:** Mr Chris Davidson Tel: +44 (0)1622 858545 E-mail: chris.davidson@constructiontesting.co.uk	Aggregates Bituminous materials Concrete - fresh & hardened Soils
Heathrow Unit 16 Britannia Industrial Estate Poyle Road Colnbrook SL3 0BH	**Local contact:** Mr Matt Mills Tel: +44 (0)2080 019296 E-Mail: matt.mills@constructiontesting.co.uk	Aggregates Bituminous materials Concrete - fresh & hardened Soils
East Kilbride 34 Hawbank Road College Milton East Kilbride G74 5EX	**Local contact:** Mr James Bennett Tel: +44 (0)7598 909376 E-mail: james.bennett@constructiontesting.co.uk	Aggregates Bituminous Mixtures Concrete - fresh & hardened Soils
Penrith Hackthorpe Hall Business Centre Hackthorpe Penrith Cumbria CA10 2HX	**Local contact:** Mr James Bennett Tel: +44 (0)7598 909376 E-mail: james.bennett@constructiontesting.co.uk	Aggregates Bituminous Mixtures Concrete - fresh & hardened Soils

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Testing performed by the Organisation at the locations specified

Location details		**Activity**
Warrington Ruby House 40A Hardwick Grange Warrington WA1 4RF	**Local contact:** Mr James Bennett Tel: +44 (0)7598 909376 E-mail: james.bennett@constructiontesting.co.uk	Aggregates Bituminous Mixtures: Concrete Soils Mortar
Billericay Lawness Barns Mountnessing Road Billericay CM12 0TS	**Local contacts:** Mr Mark Duffield (Site Investigation Section) Tel: +44 (0)1277 655377 Email: mark.duffield@constructiontesting.co.uk Mr Chris Davidson (Materials Section) Tel: +44 (0)2080 019296 Email: chris.davidson@constructiontesting.co.uk	Soils Soils Aggregates
Ilse of Grain c/p Pacadar Uk Ltd Isle of Grain (Thamesport) Kent ME3 0EP	**Local contact:** Mr Chris Davidson Tel: +44 (0)1622 858545 Email: chris.davidson@constructiontesting.co.uk	Concrete – fresh & hardened
Hartlepool C/O STRABAG UK Limited, Plot 2 Greenland Road Hartlepool TS24 ORQ	**Local contact:** Mr Matt Mills Tel: +44 (0)7904 170720 E-Mail: matt.mills@constructiontesting.co.uk	Aggregates Concrete - fresh & hardened
Carlisle Carlisle Southern Link Road Compound 7 Carlisle CA4 0QZ	**Local contact:** Mr James Bennett Tel: +44 (0)7598 909376 E-mail: james.bennett@constructiontesting.co.uk	Aggregates Concrete - fresh & hardened Soils
Black Cat Roundabout C/O Skanska Construction UK Ltd, A428 Main Site Offices (Wintringham), Loverose Way St Neots Bypass (A428) Cambridgeshire PE19 6NS	**Local contact:** Mr Chris Davidson Tel: +44 (0)1622 858545 Email: chris.davidson@constructiontesting.co.uk	Aggregates Soils

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Testing performed by the Organisation at the locations specified

Location details		**Activity**
Barrow In Furness C/O McLaughlin & Harvey Site Offices BAE Systems Kings Gate 12 Michaelson Road Barrow-in-Furness LA14 2RJ	**Local contact:** Mr Richard Ward Tel: +44 (0)1302 352652 E-mail: richard.ward@constructiontesting.co.uk	Aggregates Concrete – hardened
River Roding Shonks Mill FSA Site Shonks Mill Lane Navestock CM5 9Q	**Local contact:** Mr Matt Mills Tel: +44 (0)2080 019296 E-Mail: matt.mills@constructiontesting.co.uk	Soils

Site activities performed away from the location listed above:

Location details		**Activity**
All locations suitable for the activities listed	**Local contact:** Details Listed Above	Aggregates Bituminous Mixtures Concrete – fresh, hardened, Reinforced,& Structures Piling Road Pavement Surfaces Soils Unbound and hydraulically bound mixtures Concrete – Hardened, Structures

Testing covered by the scope of accreditation for opening temporary site Laboratories:

Location details		**Activity**
Drigg LLWR – STIM Old Shore Road Holmrook CA19 1XP	**Local contact:** Mr James Bennett Tel: +44 (0)7598 909376 E-mail: james.bennett@constructiontesting.co.uk	Concrete: hardened Soils An noted as TEMP

Contents

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Doncaster Laboratory			
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1: 2012	Lab
	Flakiness index	BS EN 933-3:2 012	Lab
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11: 2009	Lab
	Resistance to fragmentation - Los Angeles method	BS EN 1097-2: 2020	Lab
	Resistance to fragmentation of rail ballast - Los Angeles method	BS EN 1097-2: 2020 Annex A.2	
	Water content	BS EN 1097-5: 2008	Lab
	Particle density and water absorption - pyknometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6: 2022	Lab
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2022	Lab
	Magnesium sulfate test	BS EN 1367-2: 2009	Lab
	Uniformity coefficient	BS EN ISO 14688-2: 2018	Lab
	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36: 2022	Lab

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	Maximum density - volumetric procedure	BS EN 12697-5: 2018	Lab
	Bulk density - sealed specimen	BS EN 12697-6: 2020	Lab
	Air voids content	BS EN 12697-8: 2018	Lab
CONCRETE -Fresh	Making concrete cubes	BS EN 12390-2: 2019	Lab
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Dimensions	BS EN 12390-1: 2021	Lab
	Density	BS EN 12390-7: 2019	Lab
	Cored specimens - testing in compression	BS EN 12504-1: 2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Water content - oven drying method	BS 1377-2: 2022 BSEN ISO 17892-1:2014+A1:2022	Lab
	Liquid limit - cone penetrometer	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2:2022	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2:2022	Lab
	Plastic limit	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2:2022	Lab
	Plasticity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2:2022	Lab

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 - wet sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle density - gas jar	BS 1377-2: 1990 BS 1377-2: 2022	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4: 1990	Lab
	Dry density/water content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-2: 2022	Lab
	Moisture condition value (MCV)	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	MCV - natural moisture content	BS 1377-4: 1990	Lab
	MCV - natural water content	BS 1377-2: 2022	Lab
	California Bearing Ratio (CBR)	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	Swelling of soaked CBR specimen	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7: 1990 BS 1377-2: 2022 BS EN ISO 17892-8: 2018	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND and HYDRALICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4: 2021	Lab
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41: 2021	Lab
	Moisture condition value (MCV)	BS EN 13286-46: 2003	Lab
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47: 2021	Lab
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51: 2004	Lab
End of Doncaster Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Leicester Laboratory			
	<u>Health and Hygiene</u>	Health and Safety Executive – Asbestos: The Analysts' Guide (HSG 248) – 2021	
ASBESTOS in BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method MS-AS-Asbestos using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	Lab
ASBESTOS IN SOILS – The Identification of asbestos fibres in bulk samples of soil, specifically: *Soil* *Sediment* *Slurry* *Ballast* *Aggregates*	Identification of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method MS-AS-Asbestos using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	Lab
ASBESTOS IN SOILS – The Identification and quantification of asbestos fibres in bulk samples of soil, specifically: *Soil* *Ballast* *Aggregates*	Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous actinolite Fibrous anthophyllite Fibrous tremolite	Documented In-House Method MS-AS-Asbestos for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. Documented In-House Method MS-AS-Asbestos for quantification of asbestos.	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	<u>Chemical Tests</u>		
	Total Petroleum Hydrocarbons (TPH) >C8-C40	Documented In-House Method MS-CL-TPH (GC-FID) using GC-FID	Lab
	Hydrocarbon banding including: GRO >C8 – C10 DRO >C10 – C12 DRO >C12 – C16 DRO >C16 – C21 MRO >C21 – C35 MRO >C35 – C40 Total DRO >C10 – C21 Total MRO >C21 – C40 Total TPH >C8 – C40 Total WAC TPH >C10 – C40		
	Polynuclear Aromatic Hydrocarbons (PAH) Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(ghi)perylene Total PAHs (summation of above 16 compounds)	Documented In-House Method MS-CL-PAH (As Received) using GC-MS	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests</u> (cont'd) Volatile Organic Compounds (VOC) Benzene Toluene Ethyl benzene o-xylene m-xylene p-xylene MTBE Total m/p-xylene Total xylenes (total m, p & o) Total BTEX compounds (summation of Benzene, Toluene, Ethylbenzene, m, p & o-xylene) Vinyl Chloride Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene trans-1,2, -dichloroethylene 1,1-Dichloroethane 2,2-Dichloropropane cis–1,2, -dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,2-dichloropropylene trans-1,3-dichloropropylene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Chlorodibromomethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)		
	Volatile Organic Compounds (VOC) (cont'd) Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene Bromobenzene 2-chlorotoluene 4-chlorotoluene 1,2-Dichlorobenzene Dichlorodifluoromethane Chloromethane Styrene 1,3,5-Trimethylbenzene tert-butylbenzene 1,2,4-trimethylbenzene sec-Butylbenzene 4-Isopropyltoluene(P-Cymene) n-Butylbenzene	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS	Lab
	Total cyanide	Documented In-House Method MS-CL-Cyanide by Skalar	Lab
	Volatile Organic Compounds (VOC) >C5-C10 Benzene Toluene Ethyl Benzene o-Xylene m&p-Xylene Total BTEX and MTBE	Documented In-House Method MS-CL-VPH using headspace GC-MS	Lab
	Hydrocarbon banding including: ALI >C5-C6 ALI >C6-C8 ALI >C8-C10 ARO >C5-C7 ARO >C7-C8 ARO >C8-C10		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)		
	Metals *(for sand, loam and clay types)* Arsenic Barium Beryllium Cadmium Chromium Copper Lead Manganese Mercury Nickel Vanadium Zinc	Documented In-House Method MS-CL-ICP-Metals via aqua regia extraction and ICP-OES determination	Lab
	Total Monohydric Phenols	Documented In-House Method MS-CL-Phenols by Skalar	Lab
	pH	Documented In-House Method MS-CL-pH in Soils using the Jenway 3300 and Fisher Accumet pH instrumentation systems Documented In-House Method MS-CL-pH in Soils using the method MS-CL-pH to include the automated SEAL Analytical pH soil minilab instrument	Lab
	Speciated Phenols - Phenol - Cresols - Xylenol - Trimethyl phenol - Total phenols (sum of individual groups)	Documented In-House Method MS-CL-Phenols by HPLC	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)		
	Polychlorinated biphenyls (PCB) PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 81 PCB 77 PCB 123 PCB 114 PCB 105 PCB 126 PCB 167 PCB 156 PCB 157 Total 7's (summation of: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180)	Documented In-House Method MS-CL-PCB 18 using GC-MS	Lab
	Total Organic Carbon	Documented In-House Method MS-CL-TOC Eltra using a TOC analyser	Lab
	Soil Organic Matter	By calculation from Total Organic Carbon using a factor of 0.58	Lab
	Fraction Organic Carbon	By calculation from Total Organic Carbon	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)		
	Extractable Petroleum Hydrocarbons (EPC) GRO - Gasoline Range Organics >C8 – C10, DRO - Diesel Range Organics >C10 – C12, DRO - Diesel Range Organics >C12 – C16, DRO - Diesel Range Organics >C16 – C21, MRO - Mineral Range Organics >C21 – C35 MRO - Mineral Range Organics >C35 – C40. Total DRO for the ranges >C10 – C21, Total MRO for the ranges >C21 – C40 Total TPH is the summation of the range >C8 – C40 Total WAC TPH is the summation of the range >C10 – C40 Aliphatic >EC10-EC12 Aliphatic >EC12-EC16 Aliphatic >EC16-EC21 Aliphatic >EC21-EC35 Aliphatic >EC35-EC40 Aliphatic >EC10-EC35 Aliphatic >EC10-EC40 Aromatic >EC10-EC12 Aromatic >EC12-EC16 Aromatic >EC16-EC21 Aromatic >EC21-EC35 Aromatic >EC35-EC40 Aromatic >EC10-EC35 Aromatic >EC10-EC40	Documented In-House Method ENV0648 MS-CL–TPH and EPH using GCXGC-FID MS	Lab
	Total CWG C5 - C35 Total CWG C5 - C40	Summation from MS-CL-VPH & MS-CL–TPH	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd)		
	Total Monohydric Phenols	Documented In-House Method MS-CL-Phenols by Skalar to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	Speciated Phenols - Phenol - Cresols - Xylenols	Documented In-House Method MS-CL-Phenols by HPLC to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	Total Petroleum Hydrocarbons (TPH) >C8-C40 Hydrocarbon banding including: GRO >C8 – C10 DRO >C10 – C12 DRO >C12 – C16 DRO >C16 – C21 MRO >C21 – C35 MRO >C35 – C40 Total DRO >C10 – C21 Total MRO >C21 – C40 Total TPH >C8 – C40 Total WAC TPH >C10 – C40	Documented In-House Method MS-CL-TPH (GC-FID) using GC-FID to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd) Polynuclear Aromatic Hydrocarbons (PAH) Naphthalene Acenaphthene Fluorene Phenanthrene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(ghi)perylene	Documented In-House Method MS-CL-PAH (As Received) using GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	Chemical Tests (cont'd) Volatile Organic Compounds (VOC) Benzene Toluene Ethyl benzene o-xylene m-xylene p-xylene MTBE Total m/p-xylene Total xylenes (total m, p & o) Total BTEX compounds (summation of Benzene, Toluene, Ethylbenzene, m, p & o-xylene) Vinyl Chloride Chloroethane Trichlorofluoromethane 1,1-Dichloroethylene trans-1,2, -dichloroethylene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2, -dichloroethylene Bromochloromethane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon Tetrachloride 1,2-dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,2-dichloropropylene trans-1,3-dichloropropylene 1,1,2-Trichloroethane 1,3-Dichloropropane Tetrachloroethylene Chlorodibromomethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Isopropylbenzene Bromoform 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane	Documented In-House Method MS-CL-VOC & MBTEX using headspace GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (sand, loam & clay types)	<u>Chemical Tests</u> (cont'd)		
	Metals *(for sand, loam and clay types)* Arsenic Barium Beryllium Cadmium Copper Lead Manganese Nickel Zinc	Documented In-House Method MS-CL-ICP Metals via aqua regia extraction and ICP-OES determination to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	pH	Documented In-House Method MS-CL-pH in Soils using the Jenway 3300 and Fisher Accumet pH instrumentation systems Documented In-House Method MS-CL-pH in Soils using the method MS-CL-pH to include the automated SEAL Analytical pH soil minilab instrument Both to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	Total Organic Carbon (TOC)	Documented In-House Method MS-CL-TOC Eltra in soil using a TOC analyser to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	Total cyanide	Documented In-House Method MS-CL-Cyanide by Skalar in soil to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (sand, loam & clay types) (cont'd)	<u>Chemical Tests</u> (cont'd) Volatile Organic Compounds (VOC) >C5-C10 Benzene Toluene Ethyl Benzene o-Xylene m&p-Xylene Total BTEX and MTBE Hydrocarbon banding including: ALI >C5-C6 ALI >C6-C8 ALI >C8-C10 ARO >C5-C7 ARO >C7-C8 ARO >C8-C10	Documented In-House Method MS-CL-VPH using headspace GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab
	Polychlorinated biphenyls (PCB) PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 PCB 81 PCB 77 PCB 123 PCB 114 PCB 105 PCB 126 PCB 167 PCB 156 PCB 157 Total 7's (summation of: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180)	Documented In-House Method MS-CL-PCB 18 using GC-MS to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (sand, loam & clay types) (cont'd)	Chemical Tests (cont'd) Extractable Petroleum Hydrocarbons (EPC) GRO - Gasoline Range Organics >C8 – C10, DRO - Diesel Range Organics >C10 – C12, DRO - Diesel Range Organics >C12 – C16, DRO - Diesel Range Organics >C16 – C21, MRO - Mineral Range Organics >C21 – C35 MRO - Mineral Range Organics >C35 – C40. Total DRO for the ranges >C10 – C21, Total MRO for the ranges >C21 – C40 Total TPH is the summation of the range >C8 – C40 Total WAC TPH is the summation of the range >C10 – C40 Aliphatic >EC10-EC12 Aliphatic >EC12-EC16 Aliphatic >EC16-EC21 Aliphatic >EC21-EC35 Aliphatic >EC35-EC40 Aliphatic >EC10-EC35 Aliphatic >EC10-EC40 Aromatic >EC10-EC12 Aromatic >EC12-EC16 Aromatic >EC16-EC21 Aromatic >EC21-EC35 Aromatic >EC35-EC40 Aromatic >EC10-EC35 Aromatic >EC10-EC40 Total CWG C5 - C35 Total CWG C5 - C40	Documented In-House Method ENV0648 MS-CL–TPH and EPH using GCXGC-FID MS to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil Summation from MS-CL-VPH & MS-CL–TPH	Lab Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (sand, loam & clay types) (cont'd)	<u>Chemical Tests</u> (cont'd) Total Petroleum Hydrocarbons (TPH) >C8-C40 Hydrocarbon banding including: GRO >C8 – C10 DRO >C10 – C12 DRO >C12 – C16 DRO >C16 – C21 MRO >C21 – C35 MRO >C35 – C40 Total DRO >C10 – C21 Total MRO >C21 – C40 Total TPH >C8 – C40 Total WAC TPH >C10 – C40	Documented In-House Method MS-CL-Scrubbed TPH (GC-FID) using GC-FID to meet the requirements of the Environment Agency MCERTS Performance Standard – Chemical Testing of Soil	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical Tests (cont'd)		
SOILS	Leachate Preparation 10:1 single stage 2:1 single stage 2:1 and 8:1 two stage	In-house procedure MS-CL-Soil Leachate Preparation based on BS EN 12457	Lab
SOIL and GENERAL WASTE	Preparation for subsequent analysis by an ISO/IEC 17025 accredited laboratory	Documented In-House Methods	
	WAC Leachate Preparation (10:1, 2:1 single stage 2:1 and 8:1 two stage)	In-house procedure ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab
WATERS Surface and groundwater Prepared soil leachates	pH	Documented In-House Method MS-CL-pH and MS-CL-Soil Leachate Preparation (for prepared soil leachates) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab
	Electrical Conductivity (EC)	Documented In-House Method MS-CL-Conductivity and MS-CL-Soil Leachate Preparation (for prepared soil leachates) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical Tests (cont'd)		
WATERS Surface and groundwater Prepared soil leachates (cont'd)	Dissolved Organic Carbon (DOC)	Documented In-House Method MS-CL-DOC and MS-CL-Soil Leachate Preparation (for prepared soil leachates)) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab
	Chloride	Documented In-House Method MS-CL-Anions by Aquakem Leachate Preparation (for prepared soil leachates) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab
	Sulphate	Documented In-House Method MS-CL-Anions by Aquakem Leachate Preparation (for prepared soil leachates) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Ground Water, Surface Water	<u>Chemical Tests</u> (cont'd) Total and Dissolved Metals Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Boron (B) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn) Mercury (Hg) Molybdenum (Mo) Nickel (Ni) Potassium (K) Selenium (Se) Sodium (Na) Tin (Sn) Vanadium (V) and Tungsten (W) Sulphur (S) Strontium (Sr) Tellurium (Te) Uranium (U)	Documented In-House Method MS-CL-Metals in Waters by ICP-MS using ICP-MS	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Prepared Leachates (from soils)	Chemical Tests (cont'd) Dissolved Metals Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Boron (B) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn) Mercury (Hg) Molybdenum (Mo) Nickel (Ni) Potassium (K) Selenium (Se) Sodium (Na) Tin (Sn) Vanadium (V) and Tungsten (W) Sulphur (S) Strontium (Sr) Tellurium (Te) Titanium (Ti) Uranium (U)	Documented In-House Method MS-CL-Soil Leachate Preparation and documented In-House method MS-CL-Metals in Waters by ICP-MS using ICP-MS) including (10:1, 2:1 single stage 2:1 and 8:1 two stage) WAC Leachate Preparation ENV 0727 & 0414 – MS-CL based on BS EN 12457	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Drinking water (non-regulatory), process water, Recreational (swimming pool / spa water)	Chemical Tests (cont'd) Total Metals: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper – except in Drinking water Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Strontium Tellurium Thallium Tin Titanium Tungsten Uranium Vanadium	In house Method - ICP MS	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd) Drinking water,(non-regulatory), process water, Recreational (swimming pool / spa water)	<u>Chemical Tests</u> (cont'd) Dissolved Metals: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper – except in Drinking water Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Strontium Tellurium Thallium Tin Titanium Tungsten Uranium Vanadium	In house Method - ICP	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd)	Chemical Tests (cont'd)		
Drinking water (non-regulatory), surface water ground water, process water, recreational, (swimming pool / spa water	Anions: Bromide Chloride Fluoride Nitrate Nitrite Sulphate Molybdate	In house Method - Ion Chromatography	Lab
	Ammonia	In house Method - Colorimetric	Lab
	pH, Conductivity	In house Method Probe	Lab
Surface water, ground water, process water, recreational, (swimming pool / spa water)	Total Suspended Solids	In-House Method Gravimetric	Lab
AGGREGATES	Water-soluble chloride salts (reference method)	EN 1744-1:2009 + A1: 2012	Lab
	Water-soluble sulfates	EN 1744-1:2009 + A1: 2012	Lab
	Total sulfur content	EN 1744-1:2009 + A1: 2012	Lab
	Total Sulphur Content	EN BS 1744-1:2009 +A1: 2012 Clause 11.2; TS EN 1744 and Eltra CS-800 Carbon/Sulphur Analyser and LECO CS744 Carbon/Sulphur analyser	Lab
	Acid Soluble Sulfate	EN 1744-1:2009 + A1: 2012	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical Tests (cont'd)		
CONCRETE – hardened	Cement content - insoluble residue; - soluble silica (ICP-OES); - calcium oxide (ICP-OES); - sodium and potassium oxide (alkalis)	BS 1881:Part 124: 2015	Lab
	Chloride content by Aquakem discrete selective photometric analyser	Documented In-House Method ENV0901 MS-Chloride in Hardened Concrete by Aquakem Discrete Analyser with extraction to BS 1881:Part 124: 2015	Lab
	Sulphate content	Documented In-House Method MS-Sulphate in hardened concrete by ICP	Lab
	Carbonation	BS EN 14630: 2006	Lab
	Presence of High Alumina Cement by rapid chemical method	BRE Information Sheet IS 15/74	Lab
	Capillary porosity heat	BS 1881:Part 124: 2015	Lab
	Original water/cement ratio	BS 1881:Part 124: 2015	Lab
MORTARS, RENDERS, SCREEDS and PLASTERS	Chemical analysis and aggregate grading – freshly mixed and hardened mortars, screeds and plasters - insoluble residue; - soluble silica (Gravimetric); - calcium oxide (Gravimetric);	BS 4551: 2005 + A2: 2013	Lab
GROUT, MORTAR and CONCRETE	Moisture content	Documented In-House Method MS – Moisture content of grout, mortar and concrete	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Chemical Tests (cont'd)		
SOILS and AGGREGATES for civil engineering purposes	Water soluble sulphur	TRL 447: 2005: Test 1	Lab
	Acid soluble sulphur	TRL 447: 2005: Test 2	Lab
	Total Sulphur Content	TRL447:2005 Test 4; TS TRL447 and Eltra CS-800 Carbon/Sulphur Analyser and LECO CS744 Carbon/Sulphur Analyser	Lab
	Oxidisable Sulphate - by calculation	TRL 447: 2005: Test 2 & 4	Lab
	Total potential sulphate	TRL 447: 2005: Test 4 calculation	Lab
SOILS for civil engineering purposes	Water-soluble sulfur (sulfate calculated) (ICPOES)	BS 1377-3: 2018 + A1:2021 Clause 7.5	Lab
	Acid-soluble sulfur (sulfate calculated) (ICPOES)	BS 1377-3: 2018 + A1:2021 Clause 7.9	Lab
	Organic matter content	BS 1377-3: 2018 + A1:2021 Clause 14	
	Loss on Ignition	BS 1377-3: 2018 + A1:2021 Clause 6	Lab
	Sulphate content of soil and ground water – gravimetric method	BS 1377-3: 2018 + A1:2021 Clause 7.6	Lab
	pH value	BS 1377-3: 2018 + A1:2021 Clause 12	Lab
	Total Sulphur Content	BS1377-3: 2018 + A1:2021 Clause 7.10 and TS BS 1377 and Eltra CS-800 Carbon/Sulphur Analyser LECO CS744 Carbon/ Sulphur Analyser	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Potable, Ground, Process (Closed Hot and Cold Water Systems), Grey Water, Cooling Towers, Recreational Waters (Swimming Pool and Spas) Surface Water, (Rivers, Lakes , Open Reservoirs), Fountains and Spring Water	<u>Microbiological Testing</u>	In-House Documented Methods based on BS EN ISO and the Microbiology of Drinking Water Standards (MDW)	
	Enumeration of Total Aerobic Count at 22°C,,30°C and 37°C	Method MIC 006 based on the Microbiology of Drinking Water - part 7 (2020)	Lab
	Enumeration of *Escherichia coli* and Coliform bacteria	Method MIC 008 based on the Microbiology of Drinking Water – Part 4b (2016).	Lab
	Enumeration of *Pseudomonas aeruginosa*	Method MIC 009 based on the Microbiology of Drinking Water – Part 8 (2015).	Lab
	Enumeration of Pseudomonas species	Method MIC 010 based on the Microbiology of Drinking Water – Part 8 (2015).	Lab
	Enumeration of Enterococci	Method LM05 based on the Microbiology of Drinking Water – Part 5 (2012).	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Potable, Ground, Process (Closed Hot and Cold Water Systems), Grey Water, Cooling Towers, Recreational Waters (Swimming Pool and Spas) Surface Water, (Rivers, Lakes , Open Reservoirs), Fountains and Spring Water	Microbiological Testing (continued)	In-House Documented Methods based on BS EN ISO and the Microbiology of Drinking Water Standards (MDW)	
	Enumeration of *Legionella pneumophila* serogroups 1, 2-14 and *Legionella* species	Method MIC 007 (full method) based on ISO 11731:2017 according to procedures 8, 9 and 10 covering Matrix A and B using Media A and C. Sero grouping SG1, SG 2-14 and species using Latex agglutination	Lab
		Method MIC 007 based on ISO 11731:2017 according to procedures 8, 9 and 10 covering Matrix A and B using Media C (GVPC only). Sero grouping SG1, SG 2-14 and species using Latex agglutination	Lab
	Identification of *Legionella pneumophila* and species isolated from methods MIC007	Method MIC040 using MALDI-ToF	Lab
End of Leicester Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bristol Laboratory			
AGGREGATES	Water Content	BS EN 1097-5:2008	Lab
	Particle Size Distribution	BS EN 933-1: 2012	Lab
CONCRETE – fresh	Curing	BS EN 12390-2: 2019	Lab
CONCRETE – Hardened	Dimensions and shape	BS EN 12390-1: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Compressive Strength	BS EN 12390-3: 2019	Lab
	Density	BS EN 12390-7: 2019	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES	Compressive strength	BS EN 13286-41: 2021	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2: 1990	Lab
	Water content - oven drying method	BS 1377-2: 2022 BSEN ISO 17892-1:2014+A1:2022	Lab
	Liquid Limit- cone penetrometer - one point	BS 1377-2: 2022 BS EN ISO 17892-2:2014+A2:2022	Lab
	Plastic Limit	BS 1377-2: 2022 BS EN ISO 17892-2:2014+A2:2022	Lab
	Plasticity Index	BS 1377-2: 2022 BS EN ISO 17892-2:2014+A2:2022	Lab
	Particle Size Distribution	BS 1377-2: 2022 & BS EN ISO 17892-4: 2014	Lab
	Uniformity Coefficient	BS EN ISO 14688-2: 2018	Lab
	Particle Density	BS 1377-2: 2022	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes	Moisture condition Value (MCV) - Natural Water Content	BS 1377-2: 2022	Lab
	Dry Density/Water Content Relationship 2.5kg Rammer	BS 1377-2: 2022	Lab
	Dry Density/Water Content Relationship 4.5kg Rammer	BS 1377-2: 2022	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1: 2020	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1: 2020	Lab
	Particle size distribution	BS EN 12697-2: 2024	Lab
End of Bristol Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Harrietsham Laboratory			
AGGREGATES	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1: 2012	Lab
	Flakiness index	BS EN 933-3: 2012	Lab
	Shape index	BS EN 933-4: 2008	Lab
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5: 1998	Lab
	Constituents of coarse recycled aggregate – Test for geometrical properties of aggregates.	BS EN 933-11 :2009	Lab
	Micro-Deval coefficient	BS EN 1097-1 :2011	Lab
	Micro-Deval coefficient of aggregates for railway ballast - modified method	BS EN 1097-1: 2011 Annex A	Lab
	Resistance to fragmentation of coarse aggregate - Los Angeles method	BS EN 1097-2: 2020	Lab
	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2:2020 Annex A	Lab
	Loose bulk density and voids	BS EN 1097-3: 1998	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Water content - drying in a ventilated oven	BS EN 1097-5: 2008	Lab
	Particle density and water absorption – wire basket method for aggregate particles between 31.5 and 63 mm	BS EN 1097-6: 2022	Lab
	Particle density and water absorption – pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6: 2022	Lab
	Particle density and water absorption – pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6: 2022	Lab
	Uniformity coefficient	BS EN ISO 14688-2: 2018	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1: 2020	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1 :2020	Lab
	Particle size distribution	BS EN 12697-2: 2024	Lab
	Maximum density - volumetric procedure	BS EN 12697-5: 2018	Lab
	Bulk density - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6: 2020	Lab
	Air voids content	BS EN 12697-8: 2018	Lab
	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28: 2020	Lab

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)	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32: 2019	Lab
	Determination of the thickness of a bituminous pavement	BS EN 12697-36: 2022	Lab
	Core Logging	Documented In-House Method B14 issue 2	Lab
CONCRETE – fresh	Density	BS EN 12350-6: 2019	Lab
	Air Content -Pressure method	BS EN 12350-7: 2019	Lab
	Making test cubes and curing	BS EN 12390-2: 2019	Lab
	Making test cylinders and curing	BS EN 12390-2: 2019	Lab
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2:2019 & BS EN 14651:2005 + A1:2007	Lab
	Fibre Content	BS EN 14488-7: 2006	Lab
CONCRETE – hardened	Compressive strength of cubes	BS EN 12390-3 :2019	Lab
	Curing	BS EN 12390-2 :2019	Lab
	Dimensions	BS EN 12390-1: 2021	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1: 2019	Lab
	Density	BS EN 12390-7: 2019	Lab
	Flexural strength	BS EN 12390-5: 2019	Lab
	Tensile splitting strength	BS EN 12390-6: 2009	Lab
	Fibre Content	BS EN 14488-7: 2006	Lab
PAVED SURFACES	Skid resistance value	BS EN 16165: 2021	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4: 2011	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2: 1990	Lab
	Water content - oven drying method	BS 1377-2:2022 BSEN ISO 17892-1:2014+A1:2022	Lab
	Saturation moisture content of chalk	BS 1377-2: 1990	Lab
	Saturation water content of chalk	BS 1377-2: 2022 BSEN ISO 17892-2:2014	Lab
	Liquid limit - cone penetrometer (Definitive method)	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plastic limit	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plasticity index and liquidity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plasticity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Particle size distribution - wet sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab

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 - sedimentation by hydrometer	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle Density - gas jar method	BS 1377-2: 1990 BS 1377-2: 2022	Lab
	Bulk density - By Linear Measurement	BS 1377-2: 1990 Clause 7.2 BS 1377-2: 2022 BS EN ISO 17892-2: 2014	Lab
	California Bearing Ratio (CBR)	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	Swelling of soaked CBR specimen	BS 1377-4:1990 BS 1377-2: 2022	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4: 1990	Lab
	Dry density/water content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-2: 2022	Lab
	MCV - natural moisture content	BS 1377-4: 1990	Lab
	MCV - natural water content	BS1377-2: 2022	Lab
	MCV / Moisture Content relationship	BS 1377-4: 1990	Lab
	MCV / Water Content relationship	BS 1377-2: 1990	Lab
	Undrained shear strength in triaxial compression without measurement of pore pressure.	BS 1377-7 :1990 Clause 8 BS 1377-2: 2022 BS EN ISO 17892-8 2018	Lab

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 of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	Lab
	Shear strength – Large shearbox	BS EN 17892-10: 2018 BS1377-7:1990	Lab
	Effective angle of internal friction and effective cohesion	Specification for Highway Works Volume 1 Clause 636 February 2016	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4: 2021	Lab
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41: 2021	Lab
	Moisture condition value	BS EN 13286-46: 2003	Lab
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51: 2004	Lab

End of Harrietsham Laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Billericay Laboratory			
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1: 2012	Lab
	Water content - drying in a ventilated oven	BS EN 1097-5: 2008	Lab
	Uniformity coefficient	BS EN ISO 14688-2: 2018	Lab
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Water content - oven drying method	BS 1377-2:2022 BSEN ISO 17892-1: 2014+A1:2022	Lab
	Liquid limit - cone penetrometer (definative method)	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plastic limit	BS 1377-2:1990 BS 1377-2:2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plasticity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Particle size distribution - wet sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab

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 method	BS 1377-2: 1990 BS 1377-2: 2022	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4: 1990	Lab
	Dry density/water content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-2: 2022	Lab
	MCV - natural moisture content	BS 1377-4: 1990	Lab
	MCV - natural water content	BS1377-2: 2022	Lab
End of Billericay Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Heathrow Laboratory			
AGGREGATES	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2: 1999	Lab
	Particle size distribution - sieving method	BS EN 933-1: 2012	Lab
	Constituents of coarse recycled aggregate - Test for geometrical properties of aggregates.	BS EN 933-11: 2009	Lab
	Water content - drying in a ventilated oven	BS EN 1097-5: 2008	Lab
	Uniformity coefficient	B BS EN ISO 14688-2: 2018	Lab
CONCRETE – fresh	Compaction Factor	BS1881-103: 1993	Lab
	Degree of Compactability	BS EN 12350-4: 2019	Lab
	Density	BS EN 12350-6: 2019	Lab
	Air Content - Pressure method	BS EN 12350-7: 2019	Lab
	Making test cubes and curing	BS EN 12390-2: 2019	Lab
	Making test cylinders and curing	BS EN 12390-2: 2019	Lab
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2: 2019 & BS EN 14651: 2005 + A1:2007	Lab
CONCRETE - fresh reinforced	Fibre content -- Steel fibres	BS EN 14721:2005 + A1 2007	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – sprayed	Fibre Content of Fibre Reinforced Concrete	Documented In-House Method C11(B2) Issue 3	Lab
CONCRETE – hardened	Compressive strength of cubes	BS EN 12390-3: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Dimensions	BS EN 12390-1: 2021	Lab
	Compressive strength of resin concrete cubes - including Curing and Density	BS 6319-2: 1983	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1: 2019	Lab
	Density	BS EN 12390-7: 2019	Lab
	Flexural strength	BS EN 12390-5: 2019	Lab
	Fibre Content	BS EN 14488-7: 2006	Lab
	Flexural Tensile Strength ((limit of proportionality (LOP), residual)	BS EN 14651: 2005+A1:2007	Lab
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4: 2021	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2: 1990	Lab
	Water content - oven drying method	BS 1377-2: 2022 BSEN ISO 17892-1:2014+A1:2022	Lab
	Liquid limit - cone penetrometer (definative method)	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990 BS 1377-2:2022 BSEN ISO 17892-12:2014+A2: 2022	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purpose (cont'd)	Plastic limit	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plasticity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Particle size distribution - wet sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990 BS 1377-2:2022 BS EN ISO 17892-4: 2014	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4: 1990	Lab
	Dry density/water content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-2: 2022	Lab
	MCV - natural moisture content	BS 1377-4: 1990	Lab
	MCV - natural water content	BS1377-2: 2022	Lab
	MCV / Moisture Content relationship	BS 1377-4: 1990	Lab
	MCV / Water Content relationship	BS 1377-2: 1990	Lab

End of Heathrow Laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
East Kilbride Laboratory			
AGGREGATES	Sample reduction –riffle box	BS EN 932-2:1999	Lab
	Sample reduction - quartering	BS EN 932-2:1999	Lab
	Sample reduction – Small tolerances	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Water content	BS EN 1097-5:2008	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2: 2020	Lab
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2022	Lab
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31.5mm	BS EN 1097-6:2022	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2018	Lab
CONCRETE - fresh	Manufacture of cubic specimens for strength tests including curing	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019 BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes	Water (Moisture) content - oven drying method	BS 1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-1: 2014+A1: 2022	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle Density - gas jar method	BS 1377-2:2022	Lab
	California Bearing Ratio (CBR)	BS 1377-2: 2022	Lab
	Dry density//Water (moisture) content relationship (4.5 kg rammer)	BS 1377-2: 2022	Lab
	Dry density/Water (moisture) content relationship (2.5 kg rammer)	BS 1377-2: 2022	Lab
	Dry density/Water (moisture) content relationship (vibrating hammer)	BS 1377-2: 2022	Lab
	MCV- natural Water (moisture) content	BS 1377-2: 2022	Lab
	Particle Density - gas jar method	BS 1377-2: 2022	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES	Laboratory reference density and water content by vibrating hammer	BS EN 13286-4:2021	Lab

End of East Kilbride Laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Penrith Laboratory			
AGGREGATES	Sample reduction –riffle box	BS EN 932-2:1999	Lab
	Sample reduction - quartering	BS EN 932-2:1999	Lab
	Reduction to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Lab
	Water content	BS EN 1097-5:2008	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	Lab
	Particle size distribution	BS EN 12697-2: 2024	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - sealed specimen	BS EN 12697-6:2020	Lab
	Air voids content	BS EN 12697-8:2018	Lab
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Lab
	Description of cores - examination	Documented in-house Method No.CON-QMLAB-B3	Lab
	Thickness of a bituminous Pavement	BS EN 12697-36:2022	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE - fresh	Manufacture of cubic specimens for strength tests including curing	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019 BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Water content (oven drying method)	BS 1377-2:2022 BS EN ISO 17892-1:2014	Lab
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - fall cone method (four point method)	BS 1377-2: 2022 BS EN ISO 17892-12 2018	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990 BS EN ISO 17892-12 2018	Lab
	Liquid limit - fall cone method (one point method)	BS 1377-2: 2022 BS EN ISO 17892-12 2018	Lab
	Plastic limit	BS 1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-12 2018	Lab
	Plasticity index	BS1377-2:1990 BS 1377-2: 2022 BS EN ISO 17892-12 2018	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab

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 - sieving method	BS 1377-2:2022 BS EN ISO 17892-4:2016	Lab
	Determination of particle size distribution - sieving method - pipette method	BS 1377-2: 2022 BS EN ISO 17892-4:2016	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab
	Moisture condition value (MCV) – natural moisture content	BS 1377-4:1990	Lab
	Moisture condition value (MCV) – natural water content	BS 1377-2:2022	Lab
	MCV/moisture content relationship	BS 1377-4:1990	Lab
	Uniformity coefficient	SHW: Series 600:Table 6-1: Footnote 5	Lab

End of Penrith Laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Warrington Laboratory			
AGGREGATES	Sample reduction –riffle box	BS EN 932-2:1999	Lab
	Sample reduction - quartering	BS EN 932-2:1999	Lab
	Reduction to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Flakiness index	BS EN 933-3:2012	Lab
	Micro-Deval coefficient	BS EN 1097-1:2011	Lab
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	Lab
	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2: 2020 Annex A	Lab
	Water content	BS EN 1097-5:2008	Lab
	Uniformity coefficient	BS EN ISO 14688-2: 2018	Lab
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	Lab
	Particle size distribution	BS EN 12697-2:2024	Lab
	Maximum density - volumetric procedure	BS EN 12697-5:2018	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - bulk density by dimensions	BS EN 12697-6:2020	Lab

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)	Air voids content	BS EN 12697-8:2018	Lab
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	Lab
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	Lab
	Dimensions of a specimen	BS EN 12697-29:2020	Lab
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	Lab
	Thickness of a bituminous Pavement	BS EN 12697-36:2003	Lab
CONCRETE - fresh	Manufacture of cubic specimens for strength tests including curing	BS EN 12390-2:2019	Lab
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019 BS EN 12390-1:2021	Lab
	Density	BS EN 12390-7:2019	Lab
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	Lab
	Depth of carbonation	BS EN 14630:2006	Lab
	Chloride ion determination in concrete and mortar	Documented in-house procedure WI No.9	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Water content (oven drying method)	BS 1377-2:2022 BS EN ISO 17892-1:2014+A1::2022	Lab

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)	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Lab
	Liquid limit - fall cone method (four point method)	BS 1377-2:2022 BS EN ISO 17892-12 2018 + A2:2022	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990 BS 1377-2:2022 BS EN ISO 17892-12 2018 + A2:2022	Lab
	Plasticity index	BS 1377-2:1990 BS 1377-2:2022 BS EN ISO 17892-12 2018 + A2:2022	Lab
	Particle size distribution - sieving method	BS 1377-2:1990 BS 1377-2:2022 BS EN ISO 17892-4:2016	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/water content relationship (2.5 kg rammer)	BS 1377-2:2022	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/water content relationship (4.5 kg rammer)	BS 1377-2:2022	Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-2:2022	Lab

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)	Moisture condition value (MCV) – natural moisture content	BS 1377-4:1990	Lab
	Moisture condition value (MCV) – natural water content	BS 1377-2:2022	Lab
	MCV/moisture content relationship	BS 1377-4:1990	Lab
	MCV/water content relationship	BS 1377-2:2022	Lab
	California Bearing Ratio (CBR)	BS 1377-4:1990	Lab
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab
End of Warrington Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Woodsmith Mine Site Laboratory			
CONCRETE - hardened	Compressive strength of cubes	BS EN 12390-3: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Dimensions	BS EN 12390-1: 2021	Lab
	Density	BS EN 12390-7: 2019	Lab
End of Woodsmith Mine Site Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Isle of Grain Site Laboratory			
CONCRETE – fresh	Making test cubes and curing	BS EN 12390-2: 2019	Lab
	Making test cylinders and curing	BS EN 12390-2: 2019	Lab
CONCRETE – hardened	Compressive strength of cubes	BS EN 12390-3: 2019	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Dimensions	BS EN 12390-1: 2021	Lab
	Density	BS EN 12390-7: 2019	Lab
	Tensile splitting strength	BS EN 12390-6: 2009	Lab
End of Isle of Grain Site Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Hartlepool Site Laboratory			
AGGREGATES	Water Content	BS EN 1097-5: 2008	Lab
CONCRETE – hardened	Curing of Concrete Specimens	BS EN 12390-2: 2019	Lab
	Dimensions of Concrete Specimens	BS EN 12390-1: 2021	Lab
	Compressive Strength of Concrete Cubes	BS EN 12390-3: 2019	Lab
	Density of Concrete Cubes	BS EN 12390-7: 2019	Lab
	Tensile Splitting Strength	BS EN 12390-6: 2009	Lab
End of Hartlepool Site Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Carlisle Site Laboratory			
AGGREGATES	Sample reduction –riffle box	BS EN 932-2:1999	Lab
	Sample reduction - quartering	BS EN 932-2:1999	Lab
	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Water content	BS EN 1097-5:2008	Lab
	Uniformity coefficient	BS EN ISO 14688-2:2018	Lab
CONCRETE - fresh	Manufacture of cubic specimens for strength tests including curing	BS EN 12390-2:2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Moisture condition value (MCV) – natural moisture content	BS 1377-4:1990	Lab
End of Carlisle Site Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Black Cat Site Laboratory			
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:2012	Lab
	Water content	BS EN 1097-5:2008	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Lab
	Plastic limit	BS 1377-2:1990	Lab
	Plasticity index	BS 1377-2:1990	Lab
	Particle size distribution - wet sieving	BS 1377-2:1990	Lab
	Particle size distribution - dry sieving	BS 1377-2:1990	Lab
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Lab
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Lab
	Moisture condition value (MCV) – natural moisture content	BS 1377-4:1990	Lab
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Sampling - from stockpiles	BS EN 932-1: 1997	Site
CONCRETE – fresh	Sampling - composite sample - spot sample	BS EN 12350-1: 2019	Site
	Slump	BS EN 12350-2: 2019	Site
	Density	BS EN 12350-6: 2019	Site
	Making concrete cubes	BS EN 12390-2: 2019	Site
SOILS for civil engineering purposes	Sampling site - excavated material - from heaps	Documented In-House Method STP S0/Method 2 Issue 4	Site
	MCV - natural moisture content	BS 1377-4: 1990	Site
	In-situ density - sand replacement method (large pouring cylinder	BS 1377-9: 1990	Site
	In-situ bulk density nuclear method - absolute test - comparative tests - compliance tests	BS 1377-9: 1990	Site
	In-situ moisture density nuclear method - absolute test - comparative tests - compliance tests	BS 1377-9: 1990	Site
	In-situ density - core cutter method	BS 1377-9: 1990	Site
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9: 1990	

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)	Calculation of equivalent CBR value using the plate bearing test	Design Guidance for Road Pavement using the plate bearing test Foundations - Interim Advice Note 73/06 Rev1	Site
	Dynamic Cone Penetrometer (DCP)	Documented In-House Method TP 45 Issue 2 Site	Site
	Calculation of nominal CBR value	DMRB, IAN 73/06 – Design of Road	Site
	Dynamic Cone Penetrometer test (DCP)	Pavement Foundations Rev 1:2009 DMRB, CS 229 Data for Pavement Assessment Rev.0: 2020	Site
End of Black Cat Site Laboratory			

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Testing performed by the Organisation at the locations specified

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Barrow in Furness Site Laboratory			
AGGREGATES	Water content	BS EN 1097-5:2008	Lab
CONCRETE- Hardened	Curing of Concrete Specimens	BS EN 12390-2: 2019	Lab
	Dimensions of Concrete Specimens	BS EN 12390-1: 2021	Lab
	Compressive Strength of Concrete Cubes	BS EN 12390-3: 2019	Lab
	Density of Concrete Cubes	BS EN 12390-7: 2019	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	Lab
End of Barrow in Furness Site Laboratory			

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Testing performed by the Organisation at the locations specified

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
River Roding Site Laboratory			
SOILS for civil engineering purposes	Water Content	BS EN ISO 17892-1: 2014 + A1: 2022	Lab
	Dry Density/Water Content Relationship -2.5kg Rammer	BS 1377-2:2022	Lab
End of River Roding Site Laboratory			

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Drigg Site Laboratory			
AGGREGATES	Particle size distribution	BS EN 933-1:2012	Temp
	Water content	BS EN 1097-5:2008	Temp
	Sampling from stockpiles	BS EN 932-1:1997 DIHM STP S0/Method 2 Issue 4	Site
SOILS for civil engineering purposes	Water Content	BS EN ISO 17892-1: 2014 + A1: 2022	Temp
	Dry Density/Water Content Relationship -2.5kg Rammer	BS 1377-2:2022	Temp
	Dry density/Water content relationship 4.5 Rammer	BS 1377-2:2022	Temp
	Dry density/Water content relationship Vibrating hammer	BS 1377-2:2022	Temp
	Moisture (water) condition value	BS 1377-2:2022	Temp
	California Bearing Ratio (CBR) (Not including swelling or soaking)	BS 1377-2:2022	Temp
	Moisture content	BS 1377-2:1990	Temp
	Particle size distribution	BS EN ISO 17892-4:2014	Temp
	Uniformity Coefficient	BS EN ISO 14688-2:2018	Temp
	Liquid limit Fall cone 4 Point method	BSEN ISO 17892-12:2014 +A2:2022	Temp
	Plastic Limit	BSEN ISO 17892-12:2014 +A2:2022	Temp

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes	Plasticity Index	BSEN ISO 17892-12:2014 +A2:2022	Temp
	Insitu density by Sand Replacement method (large)	BS1377-9:1990	Site
	Vertical deformation by incremental plate bearing test	BS1377-9:1990	Site
	Dynamic cone penetrometer	DHIM TP45	Site
	Calculation of equivalent CBR value using the plate bearing test	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06	Site
CONCRETE- Hardened	Curing of Concrete Specimens	BS EN 12390-2: 2019	Temp
	Dimensions of Concrete Specimens	BS EN 12390-1: 2021	Temp
	Compressive Strength of Concrete Cubes	BS EN 12390-3: 2019	Temp
	Density of hardened concrete.	BS EN 12390-7:2019	Temp

End of Drigg Site Laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Activities Performed Away from Permanent Locations			
AGGREGATES	Sampling - from stockpiles	BS EN 932-1: 1997	Site
BINDER DISTRIBUTORS for road surfacing	Rate of spread of binder - carpet tile method	BS EN 12272-1:2002	Site
BITUMINOUS MIXTURES for roads and other paved areas	Temperature measurement - laid material - in a heap	BS EN 12697-13: 2017 Contact method	Site
	Temperature measurement - Measurements of temperature in a heap - Measurements of temperature in a paver hopper	BS EN 12697-13:2017 Infrared-thermometer	Site
	Sampling from - around augers of the paver - workable materials in heaps - coated chippings from stockpiles - finished material - core cutting method	BS EN 12697-27: 2017	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	Site
	Determination of the thickness of a bituminous pavement - destructive method	BS EN 12697-36: 2022	Site
	Compacted Density - nuclear density method	Documented In-House Method TP50 Issue 1	Site
	Compacted Density - non nuclear method	Documented In-House Method TP 91 Issue1	Site
BITUMINOUS ROAD PAVEMENT	Surface macrotexture depth by volumetric patch technique	BS EN 13036-1: 2010	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS ROAD PAVEMENT (cont'd)	Surface regularity by rolling straight-edge	TRRL Supplementary Report 290: 1977	Site
	In-situ density - dielectric method	Work Instruction 75 Issue 3 Jan 2023 , and BS 594987:2015 + A1:2017 Annex I	Site
	Rate of spread of coated chippings	BS 598-1:2011	Site
CONCRETE - fresh	Compaction Factor	BS 1881-103: 1993	Site
	Sampling - composite sample - spot sample	BS EN 12350-1: 2019	Site
	Slump	BS EN 12350-2: 2019	Site
	Determination of Flow	BS EN 12350-5: 2019	Site
	Density	BS EN 12350-6: 2019	Site
	Air content - pressure gauge method	BS EN 12350-7: 2019	Site
	Slump Flow and T500	BS EN 12350-8: 2019	Site
	V-Funnel	BS EN 12350-9: 2010	Site
	L box	BS EN 12350-10: 2010	Site
	Sieve Segregation	BS EN 12350-11: 2010	Site
	J Ring	BS EN 12350-12: 2010	Site
	Making concrete cubes	BS EN 12390-2: 2019	Site
	Curing concrete cubes	BS EN 12390-2: 2019	Site
	Making concrete cylinders	BS EN 12390-2: 2019	Site
	Making concrete Prism	BS EN 12390-2: 2019	Site
	Method for Making Test Beams from Fresh Concrete	BS EN 12390-2: 2019 BS EN 14651:2005 + A1:2007	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Fibre Content	BS EN 14488-7: 2006	Site
	Static segregation of self-consolidating concrete - column technique	ASTM C1610- 21	Site
	Bleeding of concrete	ASTM C232- 21	Site
CONCRETE - fresh reinforced	Fibre content - Steel fibres	BS EN 14721: 2005 + A1: 2007	Site
	Fibre content - Steel fibres	Documented In House Method C11(B2) Issue 3	Site
	Fibre content - Polymer fibres	Documented In House Method C11(B2) Issue 3	Site
CONCRETE - hardened	Sampling - by coring	BS EN 12504-1: 2019	Site
	Coring	BS EN 14488-1: 2005	Site
	Drilling for dust samples	Building Research Establishment Information Paper 21/86	Site
	Measurement of carbonation depth	BS EN 14630: 2006 BRE Digest 405	Site
CONCRETE – hardened, reinforced	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C876-22b	Site
	Visual and hammer survey	Documented In House Method TP 64 Issue 1	Site
	Resistivity of Concrete	Documented In House Method TP 66 Issue 1 Documented In House Method B04	Site
	Location of reinforcement	BS 1881: Part 204: 1988	Site
PAVED SURFACES	Skid resistance value	BS EN 16165: 2021	Site
PILED FOUNDATIONS	Pile integrity	ASTM D5882-16	Site

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4: 2011	Site
ROAD PAVEMENT SURFACES	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO November 2006 Clause 702	Site
	Surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	In-situ density - nuclear method	Documented In-house method WI No.37 Issue 8 02/12/2019	Site
REINSTATEMENT OF OPENINGS IN HIGHWAYS	Measurement of layer thickness and visual examination of bituminous core samples	Documented In-House Method TP114 Issue 1	Site
SOILS for civil engineering purposes	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 Issue 4	Site
	MCV - natural moisture content	BS 1377-4: 1990	Site
	MCV - natural water content	BS1377-2: 2022	Site
	In-situ density - sand replacement method (small pouring cylinder)	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 - absolute test - comparative tests - compliance tests	BS 1377-9: 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 moisture density - nuclear method - absolute test - comparative tests - compliance tests	BS 1377-9: 1990	Site
	In-situ density - core cutter method	BS 1377-9: 1990	Site
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9: 1990	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9: 1990	Site
	Calculation of equivalent CBR value using the plate bearing test	Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 Rev1	Site
	Dynamic Cone Penetrometer (DCP)	Documented In-House Method TP 45 Issue 2	Site
	Calculation of nominal CBR value using the Dynamic Cone Penetrometer test (DCP)	DMRB, IAN 73/06 – Design of Road Pavement Foundations Rev 1:2009 DMRB, CS 229 Data for Pavement Assessment Rev.0: 2020	Site
	In-situ Density and Moisture Content using an Electromagnetic Density Gauge	ASTM D7830/D7830M-14	Site
UNBOUND and HYDRALICALLY BOUND MIXTURES	Moisture condition value (MCV)	BS EN 13286-46: 2003	Site

End of Activities performed away from Permanent Locations

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Scope for Establishing Temporary Laboratories			
AGGREGATES	Sampling - from stockpiles	BS EN 932-1: 1997	Lab
	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2: 1999	Lab
	Particle size distribution - sieving method	BS EN 933-1: 2012	Lab
	Flakiness index	BS EN 933-3: 2012	Lab
	Shape index	BS EN 933-4: 2008	Lab
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11: 2009	Lab
	Resistance to fragmentation - Los Angeles method	BS EN 1097-2: 2020	Lab
	Water content	BS EN 1097-5: 2008	Lab
	Particle density and water absorption - pyknometer method for aggregates between 0.063 mm and 4 mm	BS EN 1097-6: 2022	Lab
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6: 2022	Lab
	Magnesium sulfate test	BS EN 1367-2: 2009	Lab
	Uniformity coefficient	BS EN ISO 14688-2: 2018	Lab

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	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28: 2020	Lab
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1: 2020	Lab
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1: 2020	Lab
	Particle size distribution	BS EN 12697-2: 2024	Lab
	Maximum density - volumetric procedure	BS EN 12697-5: 2018	Lab
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6: 2020	Lab
	Air voids content	BS EN 12697-8: 2018	Lab
	Determination of the dimensions of a bituminous sample	BS EN 12697-29: 2002	Lab
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32: 2019	Lab
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1: 2019	Lab
	Sampling of fresh concrete	BS EN 14488-1: 2005	Lab
	Slump	BS EN 12350-2: 2019	Lab
	Air content - pressure gauge method	BS EN 12350-7: 2019	Lab

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – fresh (cont'd)	Making concrete - cubes - beams - prisms - cylinders	BS EN 12390-2: 2019	Lab
	Manufacture and initial curing of beams/prisms	BSEN 12390-2: 2019 BS EN 14651: 2007 + A1	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Slump	BS EN 12350-2: 2019	Lab
CONCRETE - hardened	Dimensions	BS EN 12390-1: 2021	Lab
	Curing	BS EN 12390-2: 2019	Lab
	Compressive strength of cubes	BS EN 12390-3: 2019	Lab
	Tensile splitting strength	BS EN 12390-6: 2009	Lab
	Density	BS EN 12390-7: 2019	Lab
	Cored Specimens - examining and testing in compression	BS EN 12504-1: 2019	Lab
	Fibre content of fibre reinforced concrete	BS EN 14488-7: 2006	Lab
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2: 1990	Lab
	Water content - oven drying method	BS 1377-2: 2022 BSEN ISO 17892-1:2014+A1:2022	Lab
	Saturation moisture content of chalk	BS 1377-2: 1990	Lab
	Saturation water content of chalk	BS 1377-2: 2022 BSEN ISO 17892-2:2014	Lab
	Liquid limit - cone penetrometer - one point	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab

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)	Plastic limit	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Plasticity index	BS 1377-2: 1990 BS 1377-2: 2022 BSEN ISO 17892-12:2014+A2: 2022	Lab
	Particle size distribution - wet sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - dry sieving	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle size distribution - fine grained soils (hydrometer method)	BS 1377-2: 1990 BS 1377-2: 2022 BS EN ISO 17892-4: 2014	Lab
	Particle density - gas jar	BS 1377-2: 1990 BS 1377-2: 2022	Lab
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4: 1990	Lab
	Dry density/waters content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-2: 2022	Lab
	MCV - natural moisture content	BS 1377-4: 1990	Lab
	MCV - natural water content	BS 1377-2: 2022	Lab
	MCV / Moisture Content relationship	BS 1377-4: 1990	Lab
	MCV / Water Content relationship	BS 1377-2: 1990	Lab

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)	California Bearing Ratio (CBR)	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	Swelling of soaked CBR specimen	BS 1377-4: 1990 BS 1377-2: 2022	Lab
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7: 1990 BS 1377-2: 2022 BS EN ISO 17892-8 2018	Lab
UNBOUND and HYDRALICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4: 2021	Lab
	Moisture condition value (MCV)	BS EN 13286-46: 2003	Lab
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47: 2021	Lab

End of Scope for establishing Temporary Site laboratories

End of Schedule