


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0126</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<h3>TERRA TEK Limited</h3> <p><b>Issue No: 069    Issue date: 22 October 2021</b></p>	
	<p><b>62 Rochsolloch Road</b> Airdrie Lanarkshire Scotland ML6 9BG</p>	<p><b>Contact: Mr D McGiff</b> <b>Tel: +44 (0)1236 747949</b> <b>Fax: +44 (0)1236 747849</b> <b>E-Mail: airdrie@terratek.co.uk</b> <b>Website: www.terratek.co.uk</b></p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> 62 Rochsolloch Road Airdrie Lanarkshire Scotland ML6 9BG</p> <p><b>Local contact</b> Mr D McGiff Tel: +44 (0)1236 747949 Fax: +44 (0)1236 747849 Email: airdrie@terratek.co.uk</p>	<p>Testing Aggregates – mechanical &amp; physical tests Rock - mechanical &amp; physical tests Soils - mechanical &amp; physical tests</p>	Airdrie
<p><b>Address</b> Moor Lane Witton Birmingham B6 7HG</p> <p><b>Local contact</b> Mr S Langman Tel: +44 (0)121 344 4838 Fax: +44 (0)121 356 3599 Email: birmingham@terratek.co.uk</p>	<p>Testing Aggregates - mechanical &amp; physical tests Concrete – chemical tests Soils – mechanical, physical tests &amp; chemical tests &amp; MCERTS Waters – chemical tests Health and Hygiene (Asbestos – identification)</p>	Birmingham
<p><b>Address</b> The New Forge College Road North Aston Clinton Aylesbury Bucks HP22 5EZ</p> <p><b>Local contact</b> Ms J Hopkins Tel: +44 (0)1494 810136 Email: astonclinton@terratek.co.uk</p>	<p>Testing: Aggregates – physical tests Soils – mechanical &amp; physical tests</p>	Aston Clinton

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p>		
<p><b>Address &amp; contact as above</b></p>	<p>Testing: Soils – mechanical &amp; physical tests</p>	<p>Site: Airdrie Birmingham Aston Clinton</p>



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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	<u>Mechanical &amp; Physical Tests</u>		
	Determination of water content by drying in a ventilated oven	BS EN 1097-5:2008	Airdrie
	Particle size distribution - washing and sieving	BS 812:Part 103:Section 103.1:1985	Airdrie
	Ten per cent fines value - dry - particle size 10mm and greater	BS 812:Part 111:1990	Airdrie
	Ten per cent fines value – soaked - particle size 10mm and greater (loads from 20 to 2000kN)	BS 812:Part 111:1990	Airdrie
	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	Airdrie
	Particle size distribution - sieving method	BS EN 933-1:2012	Airdrie Birmingham Aston Clinton
	Particle shape - flakiness index	BS EN 933-3:2012	Airdrie
	Resistance to fragmentation by the Los Angeles Method	EN 1097-2:2010	Airdrie
	Uniformity coefficient	Specification for Highway Works table 6/1 footnote 5	Airdrie Birmingham Aston Clinton
Magnesium Sulphate Test	BS EN 1367-2:2009	Airdrie	
Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	Airdrie	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
UNBOUND AND HYDRAULICALLY BOUND MATERIALS	<u>Mechanical &amp; Physical Tests</u>		
	Laboratory reference density and water content – Proctor compaction	BS EN 13286-2:2010	Airdrie
	Laboratory reference density and water content – Vibrating hammer –	BS EN 13286-4:2003	Airdrie
	Test method for the determination of the moisture condition value	BS EN 13286-46:2003	Airdrie
	Test method for the determination of California bearing ratio, immediate bearing index and linear swelling -	BS EN 13286-47:2012	Airdrie
	Test method for the determination of the degree of pulverisation	BS EN 13286-48:2005	Airdrie
ROCK	Water content	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Airdrie
	Porosity and density-by saturation and calliper techniques	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Airdrie
	End preparation of rock specimens for compressive strength	ASTM D 4543-08	Airdrie
	Point load strength and anisotropy indices	ISRM Commission on Testing Methods, Suggested Method for Determining Point Load Strength 1985	Airdrie



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ROCK	<u>Mechanical &amp; Physical Tests</u>		
	Unconfined compressive strength	ASTM D 7012/14 – Method C	Airdrie
	Unconfined compressive strength	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Airdrie
CONCRETE	Slake Durability Index	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	Airdrie
	<u>Chemical Tests</u>		
	Acid Soluble Chloride	BS 1881: Part 124 1988 TP031 using potentiometric titrimetry	Birmingham
	Determination of Acid Soluble Sulphate in Concrete	TP172 by ICP-OES	Birmingham
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	Airdrie Birmingham Aston Clinton
	Bulk density - linear measurement method	BS EN ISO 17892-2:2014	Airdrie Birmingham Aston Clinton
	Determination of particle size distribution -sieving method	BS EN ISO 17892-4:2016	Airdrie Birmingham Aston Clinton
	Determination of particle size distribution -pipette method	BS EN ISO 17892-4:2016	Airdrie Birmingham Aston Clinton



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Determination of particle size distribution -hydrometer method	BS EN ISO 17892-4:2016	Airdrie
	Incremental loading oedometer test	BS EN ISO 17892-5: 2017	Airdrie Birmingham Aston Clinton
	Isotropically consolidated triaxial compression tests on water saturated soils	BS EN ISO 17892-9:2018	Birmingham Aston Clinton
	Determination of liquid limit by the fall cone method	BS EN ISO 17892-12 2018	Airdrie Birmingham Aston Clinton
	Determination of plastic limit	BS EN ISO 17892-12 2018	Airdrie Birmingham Aston Clinton
	Plasticity Index and Liquidity Index	BS EN ISO 17892-12 2018	Airdrie Birmingham Aston Clinton
SOILS for civil engineering purposes	<u>Mechanical &amp; Physical Tests</u>		
	Moisture content - oven drying method	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
	Saturation moisture content of chalk	BS 1377:Part 2:1990	Aston Clinton
	Liquid limit - cone penetrometer	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton



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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>		
	Liquid limit - cone penetrometer - one point	BS 1377:Part 2:1990	Birmingham Aston Clinton
	Plastic limit	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
	Plasticity index and liquidity index	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
	Linear shrinkage	BS 1377:Part 2:1990	Aston Clinton
	Density – linear measurement	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
	Particle density - gas jar	BS 1377:Part 2:1990	Airdrie Aston Clinton
	Particle density - small pycnometer	BS 1377:Part 2:1990	Birmingham Aston Clinton
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton
Particle size distribution - sedimentation - pipette method	BS 1377:Part 2:1990	Airdrie Birmingham Aston Clinton	



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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>		
	Particle size distribution - sedimentation - hydrometer method	BS 1377:Part 2:1990	Airdrie
	<u>Chemical Tests</u>		
	Organic matter content	BS 1377:Part 3:2018 TP041 using titrimetry	Birmingham
	Mass loss on ignition	BS 1377:Part 3:2018 TP042 using muffle furnace	Airdrie Birmingham
	<u>Mechanical &amp; Physical Tests</u>		
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton
	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton
	California Bearing Ratio (CBR)	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton
Moisture condition value (MCV) – natural moisture content	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton	
MCV/moisture content relation	BS 1377:Part 4:1990	Airdrie Birmingham Aston Clinton	



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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>		
	Chalk crushing value	BS 1377:Part 4:1990	Aston Clinton
	One-dimensional consolidation properties	BS 1377:Part 5:1990	Airdrie Birmingham Aston Clinton
	Swelling and collapse characteristics	BS 1377:Part 5:1990	Aston Clinton
	Permeability - constant head method	BS 1377:Part 5:1990	Aston Clinton
	Dispersibility - pinhole method	BS 1377:Part 5:1990	Aston Clinton
	Permeability in a triaxial cell	BS 1377:Part 6:1990	Airdrie Birmingham Aston Clinton
	Shear strength – small shearbox	BS 1377:Part 7:1990	Airdrie Birmingham Aston Clinton
	Shear strength – large shearbox	BS 1377:Part 7:1990	Birmingham Aston Clinton
	Unconfined compressive strength - load frame method	BS 1377:Part 7:1990	Birmingham Aston Clinton
Residual strength - small ring shear apparatus	BS 1377:Part 7:1990	Birmingham	
Hand Held Shear Vane	NZ Geotechnical Society Inc Aug 2001	Airdrie	





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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>		
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377:Part 7:1990	Airdrie Birmingham Aston Clinton
	Undrained shear strength – triaxial compression with multistage loading and without measurement of pore pressure	BS 1377:Part 7:1990	Airdrie Birmingham Aston Clinton
	Effective shear strength - consolidated-undrained triaxial compression test with measurement of pore pressure	BS 1377:Part 8:1990	Birmingham Aston Clinton
	Effective shear strength - consolidated-drained triaxial compression test with measurement of volume change	BS 1377:Part 8:1990	Birmingham Aston Clinton
	Uniformity coefficient	Specification for Highway Works table 6/1 footnote 5	Airdrie Birmingham Aston Clinton
	Effective angle of internal friction and effective cohesion	Specification for Highway Works, HMSO February 2016 Clause 636 using Large Shearbox	Birmingham Aston Clinton
	Coefficient of friction and adhesion between fill and reinforcing elements or anchor elements	Specification for Highway Works, HMSO February 2016 Clause 639 using Large Shearbox	Birmingham Aston Clinton
Effective shear strength - (isotropically) consolidated undrained multistage triaxial compression test with measurement of pore pressure	Documented in-house method No TP 120	Birmingham Aston Clinton	



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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>		
	Effective shear strength - (isotropically) consolidated drained multistage triaxial compression test with measurement of volume change	Documented in-house method No TP 120	Birmingham Aston Clinton
	Horizontal permeability of road drainage layers - using the permeability box	DTp HA 41/17	Aston Clinton
	Moisture condition value – at natural moisture content	SDD Tech Memo SH7/83. SDD Appls Guide No1 (Rev 1989)	Airdrie Birmingham Aston Clinton
	Verification of MCA free-fall property - optical method	Documented In-House Method TP:07	Airdrie
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377:Part 9:1990	Site: Birmingham Aston Clinton
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	In-situ density - core cutter method	BS 1377:Part 9:1990	Site: Airdrie Aston Clinton
	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
In-situ bulk density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton	



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SOILS for civil engineering purposes (cont'd)	<u>Mechanical &amp; Physical Tests</u>  In-situ bulk density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	In-situ moisture density - nuclear method - comparative tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	In-situ moisture density - nuclear method - absolute tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	In-situ moisture density - nuclear method - compliance tests	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	In-situ California Bearing Ratio (CBR)	BS 1377:Part 9:1990	Site: Airdrie Birmingham Aston Clinton
	Vertical deformation and strength characteristics of soil by the plate loading test	BS 1377:Part 9:1990	Site: Airdrie Aston Clinton Birmingham
	Determination of equivalent CBR value using the plate bearing test (loads from 1 to 500 kN)	Design Manual for Roads and Bridges. Volume 7: Pavement Design and Maintenance. HD 25/94:Foundations	Site: Airdrie Aston Clinton Birmingham
Moisture condition value – at natural moisture content	SDD Tech Memo SH7/83. SDD Appls Guide No1 (Rev 1989)	Site: Airdrie	



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SOILS	Health & Hygiene	Health and Safety Executive Asbestos: The analysts' guide for sampling, analysis and clearance procedures (HSG 248:February 2005)	Birmingham
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	HSG 248:February 2005 by Documented In-House Method TP181 - Procedure for Bulk Identification	Birmingham
ASBESTOS IN SOILS/SEDIMENTS/ AGGREGATES (screening/identification/ quantification)	Asbestos Fibre Screening/ Identification & Quantification of asbestos content of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method TP183 using stereo-microscopy, polarised light optical microscopy, dispersion staining and gravimetric analysis	Birmingham
SOILS	<u>Chemical Tests</u>  Determination of the Initial Consumption of Lime (ICL)  Acid Extractable Metals in Soil	TP173	Birmingham
	Arsenic Barium Beryllium Cadmium Chromium Copper Mercury Manganese Molybdenum Nickel Lead Antimony Selenium Vanadium Zinc	TP137 using inductively Coupled Plasma Optical Emission Spectroscopy (ICP- OES)	Birmingham



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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)		
	Total Sulphur in soil	TP129 using inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	Birmingham
	Organic matter	TP041 using tirimetry (BS 1377: Part 3: 1990)	Birmingham
	Hexavalent chromium	TP040 using colorimetry	Birmingham
	Water soluble boron	TP032 (ICP-OES)	Birmingham
	Water soluble chloride	TP 134 using potentiometric titration	Birmingham
	pH	TP0 19 using pH electrode (BS 1377: Part 3: 1990)	Birmingham
	Acid Soluble Sulphide	TP0 51 using colorimetry	Birmingham
	Loss on ignition	TP042 using muffle furnace (BS 1377: Part 3: 1990)	Birmingham
	Determination of Total Organic Carbon (TOC)	TP174 combustion NDIR	Birmingham
	Water Soluble Sulphate	TP169 using ICP-OES	Birmingham
	Acid soluble sulphate	TP171 using ICP-OES	
	Cyanide: Free Total Complex	TP047 using colorimetry TP048 using colorimetry TP049 by calculation	Birmingham
	Phenols in soil	TP046 using colorimetry	Birmingham
	Thiocyanate	TP050 using colorimetry	Birmingham
	Acid Soluble Sulphide	TP 051 using colorimetry	Birmingham



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Polychlorinated Biphenyls (PCB's): PCB Congener 28 PCB Congener 52 PCB Congener 101 PCB Congener 118 PCB Congener 138 PCB Congener 153 PCB Congener 180	TP 110 using gas chromatography mass spectrometry (GC-MS)	Birmingham
	Speciated Polyaromatic hydrocarbons (PAHs) Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo( a) pyrene Indeno(123cd)pyrene Dibenz(ah)anthracene Benzo(ghi)perylene Total PAH (16)	TP045 using gas chromatography mass spectrometry (GC-MS) SIM	Birmingham
	Extractable Petroleum Hydrocarbons >C8-C40 including	TP067 using gas chromatography with flame ionisation detection (GC-FID)	Birmingham
	Extractable Petroleum Hydrocarbons - aromatic/aliphatic fractionation and quantification according to carbon banding: >C8-C10 >C10-C12 >C12-C16 >C16-C21 >C21-C35 >C35-C40	TP126 using gas chromatography with flame ionisation detection (GC-FID)	Birmingham



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd) Semivolatile Organic Compounds (SVOC): Phenol Aniline bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene Benzyl alcohol 1,4-Dichlorobenzene 1,2-Dichlorobenzene o-Cresol p-Cresol Hexachloroethane N-Nitroso-n-propylamine Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 1,2,3-Trichlorobenzene 4-Chloro-3-methylphenol Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-methylnaphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Dimethyl phthalate 2,4-Dinitrotoluene Acenaphthylene Acenaphthene 2,4-Dinitrophenol Pentachlorobenzene 4-Nitrophenol Dibenzofuran	TP 145 SVOC by GCMS	Birmingham



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Semivolatile Organic Compounds (SVOC) (cont'd) 2,4-Dinitrotoluene Diethyl phthalate Fluorene Diphenylamine Azobenzene 4-Bromophenyl phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butyl phthalate Fluoranthene Pyrene Benzyl butyl phthalate Chrysene Di-n-octyl phthalate bis(2-ethylhexyl)phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene Acetophenone Total PAH (16)	TP 145 SVOC by GCMS	Birmingham
	Volatile Organic Compounds (VOCs): 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane	TP 154 VOC by GCMS	Birmingham





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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u> Volatile Organic Compounds (VOCs) (cont'd): 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Chlorotoluene 4-Chlorotoluene 4-Isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene m,p-Xylene Methylene Chloride n-Butyl Benzene o-Xylene Propylbenzene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Vinyl Chloride	TP 154 VOC by GCMS	Birmingham



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**TERRA TEK Limited**  
**Issue No: 069 Issue date: 22 October 2021**

Testing performed by the Organisation at the locations specified

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 (VOCs) (cont'd): Methyl-tert-Butyl Ether (MTBE) tert-Amyl Methyl Ether (TAME) tert-Butyl Alcohol (TBA) Diisopropyl Ether (DIPE) Ethyl-tert-Butyl Ether (ETBE) ALI C5-C6 ALI >C6-C8 ALI >C8-C10 ARO C6 ARO C7 ARO >C8-C10 GRO C5-C6 GRO C6-C8 GRO C8-C10 GRO C5-C10 Acetone Methyl Ethyl Ketone 3-Pentanone 3-Methyl-2-Butanone 4-Methyl-2-Pentanone 2-Hexanone Butyl Acetate Ethyl Acetate Isopropyl Acetate Methyl Acetate Propyl Acetate Vinyl Acetate	TP 154 VOC by GCMS	Birmingham



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Groundwater & potable water (non-regulatory)	<u>Chemical Tests</u>		
	Dissolved Metals: Silver Arsenic Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Manganese Molybdenum Nickel Lead Antimony Selenium Strontium Vanadium Zinc	TP156 - Determination of Dissolved Metals in Water (ICP-MS)	Birmingham
	Hexavalent chromium	TP057 using colorimetry	Birmingham
	Boron	TP054 (ICP-OES)	Birmingham
	pH	TP020 using pH electrode (BS 1377: Part 3: 1990)	Birmingham
	Phenol	TP060 using colorimetry	Birmingham
	Cyanide: Free Total Complex	TP061 using colorimetry TP062 using colorimetry TP063 by calculation	Birmingham
	Thiocyanate	TP064 using colorimetry	Birmingham
	Sulphide	TP0 66 using colorimetry	Birmingham
	Chloride	TP 068 by potentiometric titration	Birmingham



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WATERS Groundwater & potable water (non-regulatory) (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Fluoride	TP 080 by ISE	Birmingham
	Nitrite	TP 132 by colorimetry	Birmingham
	Dissolved solids	TP 035 by gravimetry	Birmingham
	Suspended solids	TP 081 by gravimetry	Birmingham
	Conductivity	TP 108 by conductivity meter	Birmingham
	Total Alkalinity	TP 118 by titrimetry	Birmingham



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Groundwater & potable water (non-regulatory) (cont'd)	<u>Chemical Tests</u> (cont'd) Semivolatile Organic Compounds (SVOC):  1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 2,4,5-trichloropehnol 2,4,6-trichlorophenol 2,4-dichlorophenol 2,4-dimethylphenol 2, 4-dinitrophenol 2, 4-dinitrotoluene 2, 6-dinitrotolunene 2-chloronaphthalene 2-chlorophenol 2-methylnaphthalene 2-methylphenol 2-nitroaniline 2-nitrophenol 3-nitroaniline 4-bromophenylphenylether 4-chloro-3-methyl phenol 4-chloroaniline 4-chlorophenyl phenyl ether 4-methylphenol 4-nitroaniline 4-nitrophenol Acenaphthene Acenaphthylene Aniline Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzyl alcohol Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether Bis(2-ethylhexyl)phthalate Butyl benzyl phthalate Carbazole	TP128 using gas chromatography mass spectrometry (GC-MS) scan	Birmingham



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Groundwater & potable water (non-regulatory) (cont'd)	<u>Chemical Tests</u> (cont'd)  Semivolatile Organic Compounds (SVOCs) (cont'd):  Chrysene Dibenz(a, h)anthracene Dibenzofuran Diethylphthalate Dimethylphthalate Di-n-butyl phthalate Di-n-octyl phthalate Diphenylamine Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Ideno(1, 2, 3-cd)pyrene Isophorone Naphthalene Nitrobenzene n-nitroso-di-n-propylamine Pentachlorophenol Phenanthrene Phenol Pyrene Total PAH (16)	TP128 using gas chromatography mass spectrometry (GC-MS) scan	Birmingham
	Speciated Polyaromatic hydrocarbons (PAHs)  Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo (a) anthracene Chrysene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo( a) pyrene Indeno(123cd)pyrene	TP128 using gas chromatography mass spectrometry (GC-MS) SIM	Birmingham



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Groundwater & potable water (non-regulatory) (cont'd)	<u>Chemical Tests</u> (cont'd) Speciated Polyaromatic hydrocarbons (PAHs) (cont'd)  Dibenz(ah)anthracene Benzo(ghi)perylene Total PAH (16)	TP128 using gas chromatography mass spectrometry (GC-MS) SIM	
WATERS Groundwater, surface water, potable water (non-regulatory) and prepared leachate	Volatile Organic Compounds (VOCs):  1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Chlorotoluene 4-Chlorotoluene 4-Isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene	TP 155 VOC by HS-GCMS	Birmingham



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Groundwater, surface water, potable water (non-regulatory) and prepared leachate (cont'd)	<u>Chemical Tests</u> (cont'd) Volatile Organic Compounds (VOCs): (cont'd) Dibromochloromethane Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene m,p-Xylene Methylene Chloride n-Butyl Benzene o-Xylene Propylbenzene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Vinyl Chloride Methyl-tert-Butyl Ether (MTBE) tert-Amyl Methyl Ether (TAME) tert-Butyl Alcohol (TBA) Diisopropyl Ether (DIPE) Ethyl-tert-Butyl Ether (ETBE) ALI C5-C6 ALI >C6-C8 ALI >C8-C10 ARO C6 ARO C7 ARO >C8-C10 GRO C5-C6 GRO >C6-C8 GRO >C8-C10 GRO C5-C10	TP 155 VOC by HS-GCMS	Birmingham
	Determination of Dissolved Organic Carbon (DOC)	TP162 Combustion NDIR	Birmingham





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS Surface Waters and Groundwater  Effluent	Determination of Hardness in Water	TP117 by ICP-OES	Birmingham
	Determination of Sulphate in Water	TP170 by ICP-OES	Birmingham
	Determination of Chemical Oxygen Demand (COD)	TP133 UV-Vis Spectroscopy	Birmingham
	Suspended solids	TP081 – by gravimetry	Birmingham
SOILS	<u>Chemical Tests</u>	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	
	Arsenic Barium Beryllium Cadmium Chromium Copper Mercury Manganese Molybdenum Nickel Lead	TP137 using inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	Birmingham
	Selenium Vanadium Zinc		
	Total Sulphur in soil	TP129 using inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)	Birmingham
	pH	TP019 using pH electrode (BS 1377: Part 3: 1990)	Birmingham
	Monohydric phenol	TP 06 using colorimetry	Birmingham
	Cyanide: Total	TP 048 using colorimetry	Birmingham
	Thiocyanate	TP 050 using colorimetry	Birmingham



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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)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	
	Polychlorinated Biphenyls (PCB's): PCB Congener 28 PCB Congener 52 PCB Congener 101 PCB Congener 118 PCB Congener 138 PCB Congener 153 PCB Congener 180	TP 110 using gas chromatography mass spectrometry (GC-MS)	Birmingham
	Speciated Polyaromatic hydrocarbons (PAHs): Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo( a) pyrene Indeno(123cd)pyrene Dibenz(ah)anthracene Benzo(ghi)perylene Total PAH (16) Extractable Petroleum Hydrocarbons: >C8-C40	TP045 using gas chromatography mass spectrometry (GC-MS)	Birmingham
		TP067 using gas chromatography with flame ionisation detection (GC-FID)	Birmingham



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil	
	SVOC in soil: Phenol Aniline bis(2-chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene Benzyl alcohol 1,4-Dichlorobenzene 1,2-Dichlorobenzene o-Cresol p-Cresol Hexachloroethane N-Nitroso-n-propylamine	TP 145 SVOC by GCMS	Birmingham
	Acid Soluble Sulphide	TP051 using colorimetry	Birmingham
	Loss on ignition	TP042 using muffle furnace (BS 1377:Part 3:1990)	Birmingham
	Water Soluble Sulphate	TP169 using ICP-OES	Birmingham
	Acid soluble sulphate	TP171 using ICP-OES	
	Water soluble chloride	TP 134 using potentiometric titration	Birmingham



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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)  Semivolatile Organic Compounds (SVOCs): Nitrobenzene Isophorone 2-Nitrophenol bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 1,2,3-Trichlorobenzene 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-methylnaphthalene 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Dimethyl phthalate 2,4-Dinitrotoluene Acenaphthylene Acenaphthene 2,4-Dinitrophenol Pentachlorobenzene 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethyl phthalate Fluorene Diphenylamine Azobenzene 4-Bromophenyl phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butyl phthalate	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil  TP 145 SVOC by GCMS	Birmingham



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SOILS (cont'd)	<u>Chemical Tests (cont'd)</u>  Semivolatile Organic Compounds (SVOCs): (cont'd) Fluoranthene Pyrene Benzyl butyl phthalate Chrysene Di-n-octyl phthalate bis(2-ethylhexyl)phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene Acetophenone Total PAH (16) Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butyl phthalate Fluoranthene Pyrene Benzyl butyl phthalate Chrysene Di-n-octyl phthalate bis(2-ethylhexyl)phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(ghi)perylene Acetophenone Total PAH (16)	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil  TP 145 SVOC by GCMS	Birmingham



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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 (VOCs): 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Chlorotoluene 4-Chlorotoluene 4-Isopropyltoluene Benzene Bromobenzene Bromochloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene m,p-Xylene n-Butyl Benzene	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil  TP 154 VOC by GCMS	Birmingham



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)  Volatile Organic Compounds (VOCs) (cont'd): o-Xylene Propylbenzene sec-Butylbenzene Tert-Butylbenzene Toluene trans-1,2-Dichloroethene trans-1,3-Dichloropropene Trichloroethene Trichlorofluoromethane Vinyl Chloride Methyl-tert-Butyl Ether (MTBE) tert-Amyl Methyl Ether (TAME) tert-Butyl Alcohol (TBA) Diisopropyl Ether (DIPE) Ethyl-tert-Butyl Ether (ETBE) ALI C5-C6 ALI >C6-C8 ALI >C8-C10 ARO C6 ARO C7 ARO >C8-C10 GRO C5-C6 GRO C6-C8 GRO C8-C10 GRO C5-C10 Acetone Methyl Ethyl Ketone 3-Pentanone 3-Methyl-2-Butanone 4-Methyl-2-Pentanone 2-Hexanone Butyl Acetate Ethyl Acetate Vinyl Acetate	Documented In-House Methods to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil  TP 154 VOC by GCMS	Birmingham
END			