



**issued by**

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

**Issue No: 103    Issue date: 04 February 2022**

**Testing performed by the Organisation at the locations specified**

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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, specifically: (cont'd) 1,3,5-Trimethylbenzene 4-Chlorotoluene <i>tert</i> -Butylbenzene 1,2,4-Trimethylbenzene <i>sec</i> -Butylbenzene <i>p</i> -Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene Benzene Toluene Ethylbenzene ( <i>m+p</i> )-Xylenes <i>o</i> -Xylene Total BTEX (By calculation)	L073B using Head Space GC-MS (HS/GCMS)	B
	Polychlorinated Biphenyls: PCB Congener 28 PCB Congener 52 PCB Congener 101 PCB Congener 118 PCB Congener 138 PCB Congener 153 PCB Congener 180 Total of the seven PCB congeners listed above	L027 using GCMS	B



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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 Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil	
	Speciated Phenols, specifically: Resorcinol Catechol Phenol 2,3,5-Trimethylphenol 2-Isopropylphenol Total Cresols: (Sum of: 2-Methylphenol, 4-Methylphenol and 3-Methylphenol)	L030 using HPLC	B
	Total Xylenols and Ethylphenols: (Sum of: 3,4-Dimethylphenol, 2,6-Dimethylphenol, 4-Ethylphenol and 2,4-Dimethylphenol)	L030 using HPLC	B
	Total Naphthols: (Sum of: 1-Naphthol and 2-Naphthol)		
	pH	L005B using pH meter	B
	pH	L099 using Automated pH meter	B
	Electrical Conductivity	L031B using automated EC meter	B
	Loss on Ignition (LOI) at 450 °C	L047B using gravimetry	B
	Water-soluble Sulphate (16hr extract) Water-soluble Sulphate (1hr extract) Total sulphate (acid soluble)	L038B using ICP-OES	B
	Hexavalent Chromium	L080B by segmented flow autoanalyser	B



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil	
	Sulphide	L010B using ISE	B
	Metals: Barium Beryllium Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Vanadium Zinc Arsenic Boron Cadmium Iron Mercury Selenium Tin	L038B using ICP-OES	B
	Sulphur (Total)	L038B using ICP-OES	B
	Water-soluble boron	L038B using ICP-OES	B
	Monohydric phenols	L080B using continuous flow analyser	B
	Total cyanide Free Cyanide Complex Cyanide (By Calculation)	L080B using continuous flow analyser	B
	Water Soluble Chloride Ammonia	L082B using Discrete Analyser	B



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil	
	Elemental Sulphur	L021B using HPLC	B
	Organic Matter Total Organic Carbon (by Calculation)	L009B using Potentiometric Detection	B
	Fraction Organic Carbon by Calculation (Expressed as fraction of TOC)	L009B using Potentiometric Titration	B
	Total organic carbon Organic matter	L023B using Titration	B
	Fraction Organic Carbon by Calculation (Expressed as fraction of TOC)	L023B using Titration	B
	Total petroleum hydrocarbons (C <sub>10</sub> -C <sub>40</sub> ) with banding: - C <sub>12</sub> -C <sub>35</sub> - C <sub>10</sub> -C <sub>25</sub> - C <sub>25</sub> -C <sub>40</sub> - C <sub>10</sub> -C <sub>12</sub> - C <sub>12</sub> -C <sub>16</sub> - C <sub>16</sub> -C <sub>21</sub> - C <sub>21</sub> -C <sub>35</sub> - C <sub>35</sub> -C <sub>40</sub> - C <sub>10</sub> -C <sub>20</sub> - C <sub>21</sub> -C <sub>40</sub>	L076 using GC-FID	B
	Banded Pentane-Extractable Petroleum Hydrocarbons, as specified:	L076B using solid phase separation and GC-FID	B
	Banded Aliphatic Fraction: C <sub>8</sub> -C <sub>10</sub> C <sub>10</sub> -C <sub>12</sub> C <sub>12</sub> -C <sub>16</sub> C <sub>16</sub> -C <sub>21</sub> C <sub>21</sub> -C <sub>35</sub> C <sub>35</sub> -C <sub>40</sub> C <sub>16</sub> -C <sub>35</sub>		



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil	
	Banded Pentane-Extractable Petroleum Hydrocarbons, as specified:	L076B using solid phase separation and GC-FID	B
	Banded Aromatic Fraction:	L076B using solid phase separation and GC-FID	B
	C8-C10		
	C10-C12		
	C12-C16		
	C16-C21		
	C21-C35		
	Total Pentane-Extractable Petroleum Hydrocarbons, C8-C35		
	Petroleum Range Organics (C6-C10)	L088 using headspace GCMS	B
	C6-C8		
	C8-C10		
	Banded aliphatic Fractions:	L088 using headspace GCMS	B
	C5-C6		
	C6-C8		
	C8-C10		
	Banded aromatic Fractions		
	C5-C7		
	C7-C8		
	C8-C10		
	Banded Aliphatic Fraction (By calculation)	L088 using HSGCMS and L076 using GCFID	B
	C5-C35		
	C5-C40		
	Banded Aromatic Fraction (By Calculation)		
	C5-C35		





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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil L064B using GC-MS	B
	Polynuclear aromatic hydrocarbons: 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-c,d)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene Total PAH (sum of EPA 16) Semi-volatile organic compounds: 2-Chlorophenol Bis(2-chloroethyl)ether 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Bis(2-chloroisopropyl)ether 2-Methylphenol Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 1,2,4-Trichlorobenzene 2,4-Dichlorophenol Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene Dimethylphthalate 2,6-Dinitrotoluene 2,4-Dinitrotoluene	L064B using GC-MS	B



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil L064B using GC-MS	B
	Semi-volatile organic compounds (CTD): Dibenzofuran 4-Chlorophenyl phenyl ether Diethylphthalate 4-Nitroaniline Azobenzene Bromophenyl phenyl ether Hexachlorobenzene Carbazole Dibutylphthalate Anthraquinone Volatile Organic Compounds, specifically: Chloromethane Bromomethane 1,1,2-Trichloro-1,2,2-trifluoroethane MTBE 1,1-Dichloroethane <i>cis</i> -Dichloroethene 2,2-Dichloropropane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene Carbon tetrachloride 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane <i>cis</i> -1,3-Dichloropropene 1,3-Dichloropropane <i>trans</i> -1,3-Dichloropropene 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Dibromochloromethane Chlorobenzene 1,1,1,2-Tetrachloroethane Styrene Isopropylbenzene Bromobenzene 2-Chlorotoluene	L073B using Head Space GC-MS (HS/GCMS)	B





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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - chemical testing of soil	B
	Volatile Organic Compounds, specifically: (cont'd) 1,3,5-Trimethylbenzene 4-Chlorotoluene <i>tert</i> -Butylbenzene <i>sec</i> -Butylbenzene 1,4-Dichlorobenzene Butylbenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene Benzene Toluene Ethylbenzene ( <i>m+p</i> )-Xylenes <i>o</i> -Xylene Total BTEX (By calculation)	L073B using Head Space GC-MS (HS/GCMS)	
	Polychlorinated Biphenyls: PCB Congener 28 PCB Congener 52 PCB Congener 101 PCB Congener 118 PCB Congener 138 PCB Congener 153 PCB Congener 180 Total of the seven PCB congeners listed above	L027 using GCMS	B
RECYCLED WASTE Trommel Fines	Loss on Ignition at 440°C	Documented in house method ref L011B – using Gravimetric Analysis in accordance with HMRC Excise Notice LFT1 27 March 2015	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>WATERS</b> - surface water, groundwater, potable (non-regulatory) and prepared leachate)  Surface water, groundwater, potable (non-regulatory) and prepared leachate), final sewage effluent and Landfill Leachate  Surface water, groundwater, potable (non-regulatory) and prepared leachate), Landfill Leachate and final sewage effluent	<u>Chemical Tests</u>		
	pH	L005B using pH electrode	B
	Biochemical Oxygen Demand	L086B by DO meter  L086B by automated robot (Skalar) with LDO probes based on BS ISO 17289:2014	B
	Alkalinity Chloride Nitrite Thiocyanate	L082 using discrete analyser	B
	Sulphate Boron	L039B using ICP-OES	B
	Hardness	L045 by calculation	B
	Metals (total & dissolved): Aluminium Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus	L039B using ICP-OES	B



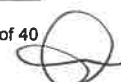
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Surface water, groundwater, potable (non-regulatory) and prepared leachate), Landfill Leachate and final sewage effluent	<u>Chemical Tests</u>  Metals (total & dissolved)CTD: Potassium Selenium Sodium Tin Vanadium Zinc	L039B using ICP-OES	B
Landfill Leachate and final sewage effluent	Silver (total & dissolved)	L039B using ICP-OES	B
WATERS – Process Water	Metals (total and Dissolved): Aluminium Copper Iron Sulphate Zinc	L039B using ICP-OES	B
WATERS - surface water, groundwater, potable (non-regulatory) and prepared leachate	Metals: Cadmium Arsenic Selenium Beryllium Cobalt Copper Molybdenum Tin Zinc Nickel Vanadium Antimony Chromium Lead Manganese Barium Phosphorous Iron Sodium Magnesium Potassium	Metals Analysis by In house method L012B using ICPMS analysis	B





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WATERS - surface water and potable water (non-regulatory)	<u>Chemical Tests</u> Mercury	Metals Analysis by In house method L012B using ICPMS analysis	B
WATERS - surface water, groundwater and prepared leachate	Boron	Metals Analysis by In house method L012B using ICPMS analysis	B
WATERS - surface water, potable (non-regulatory and prepared leachate	Aluminium	Metals Analysis by In house method L012B using ICPMS analysis	B
WATERS - surface water, groundwater, potable (non-regulatory) and prepared leachate	Mercury	In house method L085B using Atomic Fluorescence Spectroscopy	B
Surface water, groundwater, potable (non-regulatory) and prepared leachate, final sewage effluent and landfill leachate	Monohydric phenols Total cyanide Cyanide (free) Complex cyanide (by Calculation)	L080B using continuous flow analyser	B
Surface water, groundwater, potable (non-regulatory) and prepared leachate, final sewage effluent and landfill leachate	Chemical Oxygen Demand (COD)	Hach DR/890 Colorimeter by in house method L065	B
WATERS - Surface water, groundwater and potable (non-regulatory) Water, final sewage effluent and landfill leachate	Ammonia Phosphate	L082 using discrete analyser	B
- Surface water, groundwater and potable (non-regulatory) Water, final sewage effluent landfill leachate and prepared Leachate	Hexavalent Chromium	L080B by segmented flow autoanalyser	B
Surface water, groundwater and potable (non-regulatory) water	Fluoride	L033 by ion selective electrode	B



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WATERS (Cont'd) Surface water, groundwater, potable (non-regulatory) water and prepared leachates final sewage effluent and landfill leachate	Chemical Tests Fluoride	L033B by Metrohm Analyser with ion selective electrode	B
Surface water, groundwater and potable (non-regulatory) water final sewage effluent and landfill leachate	Nitrate	L078 by spectrophotometry	B
Surface water, groundwater and potable (non-regulatory) water final sewage effluent and landfill leachate	Calcium	In house method L12B using ICPMS analysis	B
Surface water, groundwater and potable (non-regulatory) water final sewage effluent and landfill leachate	Total Organic Carbon (TOC) Dissolved Organic Carbon (DOC)	L037B by TOC analyser	B
Surface and groundwater, potable (non-regulatory) water, Sewage Effluent, Landfill Leachate and prepared Leachates	pH	L099 using Automated pH meter	B
Surface water, groundwater, potable (non-regulatory) water, Sewage Effluent, and prepared Leachates	Electrical Conductivity Total Dissolved Solids (By Calculation)	L031B using automated EC meter	B
- Surface water, groundwater and potable (non-regulatory) water (cont'd)	Volatile Organic Compounds, specifically: Chloromethane Bromomethane Chloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,1-Dichloroethylene MTBE trans-Dichloroethylene 1,1-Dichloroethane cis-Dichloroethylene 2,2-Dichloropropane Chloroform 1,1,1-Trichloroethane 1,1-Dichloropropene	L073B using Head Space GC-MS (HS/GCMS)	B



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<b>WATERS (cont'd)</b>  - Surface water, groundwater and potable (non-regulatory) water (cont'd)	<u>Chemical Tests</u> (cont'd)  Volatile Organic Compounds, specifically: (cont'd)  Carbon tetrachloride 1,2-Dichloroethane Trichloroethylene 1,2-Dichloropropane Dibromomethane Bromodichloromethane <i>cis</i> -1,3-Dichloropropene 1,3-Dichloropropane <i>trans</i> -1,3-Dichloropropene 1,1,2-Trichloroethane <i>n</i> -Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene <i>tert</i> -Butylbenzene 1,2,4-Trimethylbenzene <i>sec</i> -Butylbenzene <i>p</i> -Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Styrene Bromoform Isopropylbenzene Bromobenzene	L073B using Head Space GC-MS (HS/GCMS)	B



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WATERS (cont'd)	<u>Chemical Tests</u> (cont'd)		
- Surface water, groundwater and potable (non-regulatory) water and prepared leachates	Benzene Toluene Ethylbenzene ( <i>m+p</i> )-Xylenes <i>o</i> -Xylene Total BTEX (By calculation)	L073B using Head Space GC-MS (HS/GCMS)	B
	Total Petroleum Hydrocarbons (C10-C40) and (C12-C35)	L070B using GC-MS	B
	Polyaromatic Hydrocarbons: Naphthalene Acenaphthene Acenaphthylene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz(a)anthracene Polyaromatic Hydrocarbons: Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benz(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	L102B using GCMS	B
Waters -Surface, Ground and potable (non-regulatory)	Total PAH (Sum of 16 individuals)	L102B using GCMS	B
- Surface water, groundwater and potable (non-regulatory) water and prepared leachates (cont'd)	Petroleum Range Organics (C6-C12) (C6-C10) C6-C8 C8-C10 Banded aliphatic Fractions: C5-C6 C6-C8 C8-C10 Banded aromatic Fractions C5-C7 C7-C8 C8-C10	L088 using headspace GCMS	B



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WATERS (cont'd) - Surface water, groundwater and potable (non-regulatory) water, prepared leachates, final sewage effluent and landfill leachate	<u>Chemical Tests</u> (cont'd) Anions, specifically:  Fluoride Chloride Nitrite Bromide Nitrate Phosphate Sulphate	L008B using Ion Chromatography	B
Surface water, groundwater and potable (non-regulatory) water and prepared leachates	Bromate	L008B using Ion Chromatography	B
Potable water (non regulatory), surface water, groundwater, final sewage effluent, process water (closed system heating and cooling waters), landfill leachate	Total Suspended Solids at 105°C	L004B By gravimetric analysis	B
	Total Dissolved Solids at 180°C	L004B By gravimetric analysis	B
	Volatile Suspended Solids at 550°C	L004B By gravimetric analysis	B





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WATERS (cont'd) - Surface water, groundwater and potable (non-regulatory) water and prepared leachates	<u>Chemical Tests</u> (cont'd) Total petroleum hydrocarbons (C10-C40) and (C12-C35) with banding:  Banded Aliphatic Fraction: C10-C12 C12-C16 C16-C21 C21-C35  Banded Aromatic Fraction: C10-C12 C12-C16 C16-C21 C21-C35	L101 using GC/GC FID	B
- Surface water, groundwater and potable (non-regulatory) water and prepared leachates	Banded Aliphatic Fraction (By calculation) C5-C35  Banded Aromatic Fraction (By Calculation) C5-C35	L088 using HSGCMS and L101B using GC/GC FID	B
- Surface water, groundwater and potable (non-regulatory) water and prepared leachates	Speciated Phenols, specifically: Resorcinol Catechol Phenol 2,3,5-Trimethylphenol 2-Isopropylphenol Total Cresols: (Sum of: 2-Methylphenol, 4-Methylphenol and 3-Methylphenol) Total Xylenols and Ethylphenols: (Sum of: 3,4-Dimethylphenol, 2,6-Dimethylphenol, 4-Ethylphenol and 2,4-Dimethylphenol) Total Naphthols: (Sum of: 1-Naphthol and 2-Naphthol)	L030 using HPLC	B



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<b>AIR</b>  Ambient Air and Soil Vapour (in pre-collected in Summa Gas Cannisters)	<u>Chemical Tests</u>  Volatile Organic Compounds:  1,1,1-trichloroethane 1,1,2,2-tetrachloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethene 1,2,4-trichlorobenzene 1,2,4-trimethyl benzene 1,2-dibromoethane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3,5-trimethyl benzene 1,3-butadiene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dioxane 2-hexanone (MBK) 4-ethyl toluene acetone acrolein benzene benzyl chloride bromodichloromethane bromoform bromomethane carbon disulphide carbon tetrachloride chlorobenzene chloroethane chloroform chloromethane cis-1,2-dichloroethene cis-1,3-dichloropropene cyclohexane dibromochloromethane dichloromethane dichlorodifluoromethane dichlorotetrafluoroethane ethanol ethyl acetate ethyl benzene	In house method L106B based on TO-15 using Thermal desorption and GCMS detection methodology	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>AIR</b>  Ambient Air and Soil Vapour (in pre-collected in Summa Gas Cannisters)	<u><b>Chemical Tests</b></u>  Volatile Organic Compounds Cont'd:  heptane hexachlorobutadiene hexane isopropyl alcohol m/p-xylene MEK methyl methacrylate MIBK MTBE naphthalene o-xylene propene styrene tetrachloroethene THF toluene trans-1,2-dichloroethene trans-1,3-dichloropropene trichloroethene trichlorofluoromethane trichlorotrifluoroethane vinyl acetate vinyl chloride	In house method L106B based on TO-15 using Thermal desorption and GCMS detection methodology	B
Ambient Air and Soil Vapour (in pre-collected in Summa Gas Cannisters)	Petrol Range Organics including banding:  Benzene toluene ethyl benzene m/p-xylene o-xylene >C5-C6 >C6-C8 >C8-C10 >C10-C12 >C5-C10 >C6-C10 >C6-C12 Total >C5-C12 Total	In house method L107B based on TO-15 using Thermal desorption and GCMS detection methodology	B



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<b>AIR</b>  Ambient Air and Soil Vapour (in pre-collected in Tedlar Bags)	<u>Chemical Tests</u>  Bulk Gases:  hydrogen ethylene propane propylene i-butane n-butane propadiene ethane acetylene t-2-butene 1-butene i-butylene c-2-butene i-pentane n-pentane methane 1,3-butadiene methyl-acetylene carbon monoxide t-2-pentene 1-pentene 2-methyl-2-butene c-2-pentene	In house method L108B using GCFID detection	B
<b>WORKPLACE &amp; AMBIENT AIR MONITORING</b>  Dust - Airbourne	<u>Analysis of:</u>  Total Inhalable and Respirable Arerosols	MDHS 14/4 Documented in house method AIR18	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>POLLUTANTS AND EFFLUENTS:</b> ATMOSPHERIC Diffuse pollutants from workplace atmospheres	<u>Chemical Tests</u>		
Fliters (GFA 25mm and 37mm)	Metals: Arsenic, Beryllium, Cadmium, Cobalt, Chromium, Copper, Iron, Mercury, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Lead, Antimony, Tin, Thallium and Vanadium	In House Method AIR -020 based on NIOSH 7300 using ICP-OES	B
Fliters (GFA 25mm)	Metals: Selenium	In House Method AIR -020 based on NIOSH 7300 using ICP-OES	B
Fliters (GFA 37mm)	Metals: Potassium	In House Method AIR -020 based on NIOSH 7300 using ICP-OES	B
Fliters (MCE QMA, and PVC) 25mm and 37mm)	Metals: Aluminium, Arsenic, Boron, Barium, Beryllium, Calcium, Cadmium, Cobalt, Chromium, Copper, Iron, Mercury, Potassium, Magnesium, Manganese, Molybdenum, Sodium, Nickel, Phosphorus, Lead, Antimony, Selenium, Tin, Titanium, Thallium, Vanadium	In House Method AIR -020 based on NIOSH 7300 using ICP-OES	B
Fliters (MCE, QMA and PVC) (37mm)	Metals: Zinc	In House Method AIR -020 based on NIOSH 7300 using ICP-OES	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	<u>Chemical Tests</u> (cont'd) Sample Preparation and Moisture Content	Documented in house method L015 based on BS EN 15413:2011, BS EN ISO 14780:2017-07, BS EN 15414-3:2011 and BS EN ISO 18134-3:2015-11 using gravimetry	B
	Moisture Content	Documented in house method L015 based on BS EN 15413:2011, BS EN ISO 14780:2017-07, BS EN 15414-3:2011 and BS EN ISO 18134-3:2015-11 using gravimetry	B
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	Ash Content	Documented in house method L018B based on BS EN 15403: 2011 and BS EN ISO 18122: 2015 using Gravimetry	B
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	Biomass and Non-biomass content	Documented in house method L022B based on EN 15440: 2011 using selective dissolution method	B
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	<u>Sulphur</u> Fluorine Chlorine Bromine	Documented In-House Method L008B based upon BS EN 15408:2011 and BS EN ISO 16994:2016-10 using Ion Chromatography	B
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	<u>Metals:</u> Aluminium Arsenic Cadmium Cobalt Chromium Copper Mercury Manganese Nickel Lead Antimony Tin Vanadium Zinc	Documented in house method L038B based on BS EN 15411:2011, BS EN ISO 16968:2015 and BS EN ISO 16967:2015 using ICP-OES	B
SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	<u>Metals Oxides:</u> SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO <sub>2</sub> , BaO, SrO	Documented in house method L038B based on BS EN 15411:2011, BS EN ISO 16968:2015 and BS EN ISO 16967:2015 using ICP-OES	B



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SRF (Solid Recovered fuel) and RDF (Refuse Derived Fuel) and Solid Biofuel	<u>Chemical Tests</u> (cont'd) Calorific value	Documented In-House Method L013B based upon : BS EN 15400:2011 and BS EN ISO 18125:2017-07 using Bomb Calorimetry	B
Soils	<u>Sampling</u> Soil Sampling	In Compliance with ISO 10381-4:2003 and ISO 10381-5:2005	B
Rivers and Streams	Water Sampling	In Compliance with ISO 5667-6:2014	B
Underground Water	Water Sampling	In Compliance with ISO 5667-11:2009	B
SOILS for civil engineering purposes	<u>Geotechnical Testing</u> Sample Preparation	In house method G043	B,C,D,G, F
	Sampling earthworks materials - from stockpiles - laid materials - excavations	Documented In-House Method SS05 - Sampling Earthworks	Site
	Moisture content - oven drying method	BS 1377-2:1990	B,C,D,G, F
	Liquid limit - cone penetrometer	BS 1377-2:1990	B
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	B
	Plastic limit	BS 1377-2:1990	B, D
	Plasticity index	BS 1377-2:1990	B
	Particle density - gas jar	BS 1377-2:1990	B
	Linear Shrinkage	BS 1377-2:1990	B
	Particle size distribution - wet sieving	BS 1377-2:1990	B, D
	Particle size distribution - dry sieving	BS 1377-2:1990	B, D



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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)	<u>Geotechnical Testing</u> (cont'd)		
	Particle size distribution - sedimentation - hydrometer method	BS 1377-2:1990	B
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	B, D
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	B, D
	Dry density/moisture content relationship(vibrating hammer)	BS 1377-4:1990	B, D
	Moisture condition value(MCV)	BS 1377-4:1990	B, D, Site
	MCV - natural moisture content	BS 1377-4:1990	B, D, Site
	MCV/moisture content relation	BS 1377-4:1990	B, D
	California Bearing Ratio (CBR)	BS 1377-4:1990	B, D
	Swelling of soaked CBR specimen	BS1377-4:1990	B, D
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	B
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	B
	Shear strength by direct shear (small shearbox apparatus)	BS1377-7:1990	B
	Effective shear strength – consolidated-undrained triaxial compression test with measurement of pore pressure	BS1377-8:1990	B
	Effective shear strength – consolidated-drained triaxial compression test with measurement of volume change	BS 1377- 8:1990	B





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SOILS for civil engineering purposes (cont'd)	<u>Geotechnical Testing</u> (cont'd)		
	Effective shear strength – consolidated drained multistage triaxial compression test with measurement of volume change	Documented in House method G084	B
	Effective shear strength – consolidated undrained multistage triaxial compression test with measurement of pore pressure	Documented in House method G084	B
	Saturation Moisture of Chalk	BS 1377-2:1990	B
	One-dimensional consolidation properties	BS 1377-5:1990, clause 3	B
	Determination of Swelling and collapse Characteristics	BS 1377-5:1990, clause 4	B
	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 density - core cutter method	BS 1377-9:1990	Site
	In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics by the plate loading test	BS 1377-9:1990	Site
	Calculation of equivalent CBR values using the plate loading test	Specification for Highway Works: Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 rev1 withdrawn	Site



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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)	<u>Geotechnical Testing</u> (cont'd)		
	Dynamic Cone Penetration	Specification for Highway Works: Design Guidance for Road Pavement Foundations Interim Advice Note 73/06 rev1 Design Manual for Roads and Bridges, CD229 Rev 0, March 2020	Site
	Hand shear vane	Guideline for handheld shear vane test: New Zealand Geotechnical Society Inc, August 2001	Site
	Permeability constant head in a rigid wall permeameter	BS EN ISO 17892-11:2019	B
	Permeability - Filtration Coefficient for $1 \times 10^{-3}$ to $1 \times 10^{-6}$ m/s USBCS ( $0.01 < D_{20} < 2.00$ mm)	Hydrogeologia Ogolna: 1990 by Z. Pazdro and B. Kozerski	B
	Shear strength by direct shear (large shearbox apparatus)	BS 1377-7:1990	B
	Determination of effective angle of internal friction and effective cohesion of earthworks materials (using 300 mm shearbox)	Specification for Highway Works, HMSO November 2016 Clause 636	B
	MCV/moisture content relation	BS 1377-4:1990	B
	In-situ bulk density - nuclear method - absolute tests - compliance tests	BS 1377-9:1990	Site
	In-situ moisture density - nuclear method - absolute tests - compliance tests	BS 1377-9:1990	Site
Hydraulically Bound and Stabilized materials for Civil Engineering Purposes	In-situ density - dielectric method	Documented In-House Method SS17	Site
	Moisture Condition Value (MCV)	BS EN 13286-46:2003	D, Site



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	<u>Geotechnial Testing (Ctd)</u>		
Hydraulically Bound and Stabilized materials for Civil Engineerring Purposes	Laboratory reference density and water content - proctor compaction	BS EN 13286-2:2010	B, D
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	B, D
	Moisture condition value (MCV)	BS EN 13286-46:2003	B
	California bearing ratio, immediate bearing index and linear swelling	BS EN 13286-47:2012	B, D
AGGREGATES	Sampling aggregates - from stockpiles	BS EN 932-1:1997	Site
	Particle size distribution - sieving method	EN 933-1:2012 BS EN 933-1:2012	B, D
	Water Content	EN 1097-5:2008 BS EN 1097-5:2008	B,C,D,G, F
	Sample Reduction by quartering	EN 932-2:1999 BS EN 932-2:1999	B,C,D,G, F
	Sample reduction using a riffle box	EN 932-2:1999 BS EN 932-2:1999	B,C,D,G, F
	Uniformity Coefficient	BS EN ISO 14688-2: 2018	B
	Coefficient of Curvature	BS EN ISO 14688-2: 2018 +A1: 2013	B
	Resistance to fragmentation by the Los Angeles test method	EN 1097-2:2020 BS EN 1097-2:2020	B
	Classification test for the constituents of coarse recycled Aggregates	EN 933-11:2009 BS EN 933-11:2009	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	<u>Geotechnical Testing (Ctd)</u> Particle shape – Flakiness Index	BS EN 933-3:2012	B
	Particle shape – Shape Index	BS EN 933-4:2008	B
AGGREGATES	Percentage of crushed and broken surfaces in coarse aggregate	BS EN 933-5:1998	B
	Resistance to wear (Micro-Deval)	BS EN 1097-1:2011	B
	Loose Bulk Density and voids	BS EN 1097-3:1998	B
	Particle density and water absorption - wire basket method for aggregate particles between 31.5 and 63 mm	BS EN 1097-6:2013	B
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2013	B
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6: 2013	B
	Methods for determination of aggregate crushing value	BS 812-110:1990	B
	Methods for determination of ten per cent fines value	BS 812-111:1990	B
	Magnesium Sulphate test	BS EN 1367-2:2009	B
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Sample Preparation	In house method G043	B,C,D,G, F
	Water Content	BS EN ISO 17892-1:2014	B,C,D,G, F



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	<u>Geotechnical Testing (Ctd)</u>		
	Bulk Density – immersion in fluid method	BS EN ISO 17892-2:2014	B
	Bulk Density – Linear measurement method	BS EN ISO 17892-2:2014	B
	Determination of particle density - fluid pycnometer method	BS EN ISO 17892-3:2015	B
	Determination of particle size distribution - Sieving method	BS EN ISO 17892-4:2016	B, D
	Determination of particle size distribution - Hydrometer method	BS EN ISO 17892-4:2016	B
	Determination of liquid limit (fall cone method)	BS EN 17892-12:2018	B
	Determination of liquid limit (one-point fall cone method)	BS EN 17892-12:2018	B
	Determination of plastic limit	BS EN 17892-12:2018 +A1:2021	B, D
Rock and Natural Stone	Determination of plasticity limit	BS EN 17892-12:2018	B
	Determination of point load strength and anisotropy indices	The Complete ISRM Suggested Methods – Rock Characterization Testing and Monitoring 1974 – 2006, Editors: R Ulusay & J A Hudson	B
	Determination of Uniaxial Compressive Strength	ISRM Commission on Testing Methods, Suggested Method for Determining Uniaxial Compressive Strength 1985	B
Concrete - Hardened	Compressive strength of cubes - including curing	BS EN 12390-1:2012, BS EN 12390-2:2019, BS EN 12390-3:2019	G
	Density	BS EN 12390-7:2019	G





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Bituminous Road Surfacing	<u>Geotechnical Testing (Ctd)</u> In-Situ Density – Nuclear Method	BS 594987:2015+A1:2017 and Documented In-House Method SS16	Site
	In-Situ Density – Dielectric Method	BS 594987:2015+A1:2017 and Documented In-House Method SS15	Site
Pavement Surfaces	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	Texture depth by the sand-patch method	BS 598-105:2000 (withdrawn)	Site
	Surface regularity using a rolling straight-edge	Specification for Highway Works HMSO February 2016, Clause 702, TRRL Supplementary Report 290:1977	Site
	Core Logging	Design Manual for Roads and Bridges, CS 229 Revision 0, March 2020	F
Unbound and Hydraulically bound Materials	3m Transverse Straight Edge	BS EN 13036 – 7 - 2003	Site
	Degree of Pulverization	BS EN 13286-48 – 2005	Site
Bituminous Mixtures	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28: 2020	B
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1: 2020	B
Bituminous Mixtures	Particle size distribution	BS EN 12697-2:2015+A1:2019	B





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Concrete - Fresh	<u>Geotechnial Testing (Ctd)</u>		
	Sampling - composite sample - spot sample	BS EN 12350-1:2009	Site
	Slump Test	BS EN 12350-2:2019	Site
	Making and curing specimens for strength tests	BS EN 12390-2:2019	Site
	Air Content – pressure guage method	BS EN 12350-7:2019	Site
END			