


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|---|---|
|  2139 Accredited to ISO/IEC 17025:2017 | Normec DETS Limited | |
| | Issue No: 069 | Issue date: 07 April 2025 |
| | Unit 2 Park Road Industrial Estate Consett Co Durham DH8 5PY | Contact: Mr J Coffey Tel: +44 (0)1207 582333 E-Mail: info@dets.co.uk Website: www.dets.co.uk |
| Testing performed by the Organisation at the locations specified below | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | | Activity | Location code |
|--|-------------------------------------|---|---------------|
| Address Unit 2 Park Road Industrial Estate Consett Co Durham DH8 5PY | Local contact Mr J Coffey | Environmental Analysis Health and Hygiene Asbestos – All Support Functions | A |

Site activities performed away from the locations listed above:

| Location details | Activity | Location code |
|------------------|----------|---------------|
| Client Premises | Sampling | B |



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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 |
|--|---|---|---------------|
| LEACHATES WATER, PROCESS WATER, SALINE/SEA WATER, WASTE WATER, NATURAL | <u>Analysis</u> | | |
| | pH value | Documented In-House Method No DETCS 2008 based on BS 1377:Part 3:1990 | A |
| | Electrical Conductivity | Documented In-House Method No DETCS 2009 | A |
| | Alkalinity | Documented In-House Method No DETSC 2030 based on Standing Committee of Analysts Methods (HMSO) ISBN 011 751 6015 | A |
| | Chemical Oxygen Demand | Documented In-House Method No DETSC 2032 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 9154, 1986, by colorimetry | A |
| | Suspended Solids | Documented In-House Method No DETSC 2034 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 957 X, 1980 | A |
| | Total Dissolved Solids | Documented In-House Method No DETSC 2035 based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 957 X, 1980 | A |
| | Chloride content | Documented In-House Method No DETSC 2006 based on BS 1377:Part 3:1990 | A |
| LEACHATES, WATER, PROCESS, WATER, SALINE/SEA, WATER, WASTE, WATER, NATURAL, TRADE EFFLUENTS | Biochemical Oxygen Demand | Documented In-House Method No DETSC 2031 based on Standing Committee of Analysts Method (HMSO) ISBN 011 752 2120, 1988, by meter | A |



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| LEACHATES WATER, PROCESS WATER, SALINE/SEA WATER, WASTE WATER, NATURAL Clean water (non-regulatory) Surface (River) water, Sewage Influent and Sewage effluent | <u>Analysis</u> (cont'd) | | |
| | Boron (soluble) | Documented In-House Method No DETSC 2123 by colorimetry | A |
| | Anions, comprising: Chloride Nitrate Nitrite Phosphate Sulphate | Documented In-House Method No DETSC 2055 by ion chromatography based on EPA 9056A (Rev 1 November 2000) | A |
| | Mercury (Total and Dissolved) | Documented in house Method No DETSC 2324 by AFS | A |
| | Low level Total and Dissolved Metals Aluminium Phosphorous Chromium Iron Nickel Copper Zinc Cadmium Lead | Documented in house Method No DETSC 2306 by ICPMS | A |



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| Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate | <u>Analysis</u> (cont'd) Metals: Dissolved only: Aluminium Antimony Arsenic Barium Calcium Cadmium Cobalt Chromium Copper Iron Lead Mercury Potassium Magnesium Manganese Nickel Phosphorus Selenium Sodium Vanadium Zinc | Documented in house method No DETSC 2306 by ICP-MS | A |
| Clean water (non-regulatory) River water, Groundwater, prepared and Landfill leachate | Molybdenum | | |
| Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate | Hardness by Calculation Calcium Hardness by Calculation | Documented in-House method DETSC 2303 | A |
| | Elemental Sulphur | Documented In-House Method No DETSC 3049 by HPLC based on standing committee of Analysts Method (HMSO) ISBN 011 751 726 7 | A |
| | Oil and Grease (Hexane extractable material) Cyclohexane Extractable Material Toluene Extractable Material | Documented In-House Method No DETSC 3002 by extraction/ gravimetry | A |
| | Thiocyanate | Documented In-House Method No DETSC 2130 by Skalar | A |



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| Clean water (non-regulatory) River water, Groundwater, Trade effluent, prepared and Landfill leachate (cont'd) | <u>Analysis</u> (cont'd) | | |
| | Cyanide (total) | Documented In-House Method No DETSC 2130 by Skalar | A |
| | Cyanide (free) | Documented In-House Method No DETSC 2130 by Skalar | A |
| | Phenol (monohydric) | Documented In-House Method No DETSC 2130 by Skalar | A |
| | Low Level Cyanide (total) | Documented In-House Method No DETSC 2131 by Skalar | A |
| | Low Level Cyanide (free) | Documented In-House Method No DETSC 2131 by Skalar | A |
| | Low level Cyanide (Complex by Calculation) | Documented In-House Method No DETSC 2131 by Skalar | A |
| | Low Level Phenol (monohydric) | Documented In-House Method No DETSC 2131 by Skalar | A |
| | Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Methyl-tert-butyl-ether (MTBE) Toluene o-Xylene (m+p)-Xylenes | Documented In-House Method No DETSC 3322 by GC-FID | A |
| | Extractable Petroleum Hydrocarbons (EPH) (C ₁₀ -C ₄₀) | Documented In-House Method No DETSC 3311 by GC-FID | |
| | Nitrite | Documented In-House Method No DETSC 2201 by KONELAB 60i | A |
| | TON | Documented In-House Method No DETSC 2202 by KONELAB 60i | A |
| | Hexavalent Chromium | Documented In-House Method No DETSC 2203 by KONELAB 60i | A |
| | Phosphorous (Soluble reactive) | Documented In-House Method No DETSC 2205 by KONELAB 60i | A |
| LEACHATES, TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER | | | |



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| LEACHATES, TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER (cont'd) | <u>Analysis</u> (cont'd) | | |
| | High level Ammonia | Documented In-House Method No DETSC 2206 by KONELAB 60i | A |
| | Low Level Ammonia | Documented In-House Method No DETSC 2207 by KONELAB 60i | A |
| LEACHATES (from soils), TAP WATER (non-regulatory), RIVER WATER AND GROUNDWATER | Sulphide | Documented In-House Method No DETSC 2208 by KONELAB 60i | A |
| | Petroleum range hydrocarbons (PRO) including banding: Total PRO C ₅ -C ₁₀ PRO C ₅ -C ₆ PRO C ₆ -C ₈ PRO C ₈ -C ₁₀ Total Aliphatic C ₅ -C ₁₀ Aliphatic C ₅ -C ₆ Aliphatic >C ₆ -C ₈ Aliphatic >C ₈ -C ₁₀ Total Aromatic C ₅ -C ₁₀ Aromatic C ₅ -C ₇ Aromatic >C ₇ -C ₈ Aromatic >C ₈ -C ₁₀ | Documented in house method No DETSC 3322 using GC-FID | A |
| | Polycyclic Aromatic Hydrocarbons (PAH's) specifically: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Dibenz[a,h]anthracene Indeno(123,cd) pyrene Benzo(ghi) perylene Total PAH (sum of EPA 16) | Documented in house method No DETSC 3304 using GC-MS | A |



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| LEACHATES (from soils), TAP WATER (non-regulatory), EFFLUENT, RIVER WATER AND GROUNDWATER (cont'd) | <u>Analysis</u> (cont'd) Polychlorinated Biphenyls (PCB's) specifically: PCB 28 / 31 PCB 52 PCB 101 PCB 118 + PCB 123 PCB 153 PCB 138 PCB 180 PCB 105 PCB 114 PCB 126 PCB 156 PCB 157 PCB 167 PCB 169 PCB 189 PCB 77 PCB 81 | Documented in house method No DETSC 3402 using GC-MS | A |
| TAP WATER (non-regulatory), RIVER WATER, GROUNDWATER AND LEACHATE | Total Organic Carbon (TOC) Range - 3 - 30mg/l Range - 30 - 300mg/l | Documented In-House Method No DETSC 2033 by spectrophotometry | A |
| Surface Water, Groundwater, Effluent, Landfill Leachates and Leachates from Soils | Total Organic Carbon Dissolved Organic Carbon | Documented in house method DETSC 2085 by Infra-red TOC Analyser | A |



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| TAP WATER (non-regulatory) SURFACE (river) WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE | <u>Analysis (cont'd)</u> <u>Volatile Organic Compounds:</u> Dichlorodifluoromethane Chloromethane vinyl chloride Bromomethane Chloroethane 1,1-dichloroethylene trans-1,2-dichloroethylene 1,1-dichloroethane cis 1,2-dichloroethylene Chloroform Bromochloromethane 1,1,1-trichloroethane 1,1-dichloropropene Carbon tetrachloride 1,2-dichloroethane Benzene 1,2-dichloropropane Dibromomethane Bromodichloromethane cis-1,3-dichloropropene Toluene trans-1,3-dichloropropene 1,1,2-trichloroethane Tetrachloroethylene 1,3-dichloropropane Dibromochloromethane 1,2-dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Styrene Bromoform Isopropylbenzene 1,1,2,2-tetrachloroethane Bromobenzene 1,2,3-trichloropropane n-propylbenzene 2-chlorotoluene 1,3,5-trimethylbenzene 4-chlorotoluene Tert-butylbenzene | Documented in house method No DETSC 3432 by headspace GC-MS | A |



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| TAP WATER (non-regulatory) SURFACE (river) WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE (cont'd) | <u>Analysis (cont'd)</u> <u>Volatile Organic Compounds:</u> (cont'd) 1,2,4-trimethylbenzene sec-butylbenzene p-isopropyltoluene 1,3-dichlorobenzene 1,4-dichlorobenzene n-butylbenzene 1,2-dichlorobenzene 1,2-dibromo-3-chloropropane 1,2,4-trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-trichlorobenzene | | A |
| TAP WATER (non-regulatory) SURFACE WATER, GROUNDWATER, TRADE EFFLUENT and PREPARED LEACHATE LANDFILL LEACHATE | Acid Herbicides: Mecoprop Bentazone MCPA Clopyralid Dicamba 2,3,6-trichlorobenzoic acid Dichloprop Bromoxynil Fenoprop MCPB 2,4,5-T Fluroxypyr 2,4-DB Ioxynil | Documented In-House Method No DETSC 3448 by LC-MS-MS | A |
| LEACHATES, RIVER WATER AND GROUNDWATER | pH | Documented In-House Method No DETSC 2008 by voltammetry | A |
| | Conductivity | Documented In-House Method No DETSC 2009 by voltammetry | A |
| | Alkalinity | Documented In-House Method No DETSC 2030 by voltammetry | A |



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| SOILS SEDIMENTS | <u>Chemical Analysis</u> | | |
| | pH value | Documented In-House Method No DETSC 2008 based on BS 1377:Part 3:1990 | A |
| | Electrical Conductivity | Documented In-House Method No DETSC 2009 | A |
| | Organic Matter Content | Documented In-House Method No DETSC 2002 based on BS 1377:Part 3:1990 | A |
| | Loss on Ignition | Documented In-House Method No DETSC 2003 based on BS 1377:Part 3:1990 | A |
| | Sulphate content | Documented In-House Method No DETSC 2004 based on BS 1377:Part 3:1990 | A |
| | Water Soluble Chloride content | Documented In-House Method No DETSC 2006 based on BS 1377:Part 3:1990 | A |
| | Acid Soluble Chloride content | Documented In-House Method No DETSC 2007 based on BS 1377:Part 3:1990 | A |
| SOILS only | Anions, comprising: Chloride Fluoride Nitrate Nitrite Phosphate Sulphate | Method No DETSC 2055 by ion chromatography based on EPA 9056A (Rev 1 November 2000) | A |
| | Boron (water soluble) | Documented In-House Method No DETSC 2311 by ICP-OES | A |



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| SOILS SEDIMENTS (cont'd) | <u>Chemical Analysis</u> (cont'd) | | |
| | Mercury | Documented In-House Method No DETSC 2325 by atomic fluorescence | A |
| SOILS only | Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Selenium Tin Vanadium Zinc | Documented In-House Method No DETSC 2301 by hotblock digestion and ICP-OES based on Standing Committee of Analysts Method (HMSO) ISBN 011 753 2444 | A |
| | Sulphur (total) | Documented In-House Method No DETSC 2320 by hotblock digestion and ICP-OES | A |
| | Elemental Sulphur | Documented In-House Method No DETSC 3049 by HPLC based on standing committee of Analysts Method (HMSO) ISBN 011 751 726 7 | A |
| | Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Methyl-tert-butyl-ether (MTBE) Toluene o-Xylene (m+p)-Xylenes | Documented In-House Method No DETSC 3321 by GC-FID | A |



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| SOILS SEDIMENTS (cont'd) | <u>Chemical Analysis</u> (cont'd) | | |
| | Extractable Petroleum Hydrocarbons (EPH) (C ₁₀ -C ₄₀) Diesel Range (C ₁₀ -C ₂₄) Lube Oil range / Mineral Oil Range (C ₂₄ -C ₄₀) | Documented In-House Method No DETSC 3311 by GC-FID | A |
| | Polycyclic Aromatic Hydrocarbons (PAH's) specifically: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benz[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Dibenz[a,h]anthracene Total PAH (sum of EPA 16) | Documented In-House Method No DETSC 3301 by GC based on EPA 8100 and BG Soil Analysis 1999 | A |
| | Polychlorinated Biphenyls (total) | Documented In-House Method No DETSC 3401 by GC-MS | A |
| | <u>Analysis</u> | | |
| | Sulphate (acid soluble) | Documented In-House Method No DETSC 2321 by ICP-OES | A |
| | Sulphate (water soluble) | Documented In-House Method No DETSC 2076 (ICP-OES) | A |
| | Ammonia | Documented In-House Method No DETSC 2119 by spectrophotometry | A |
| | Thiocyanate | Documented In-House Method No DETSC 2130 by Skalar | A |
| SOILS | | | |



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| SOILS (cont'd) | <u>Analysis (cont'd)</u> | | |
| | Cyanide (total) Cyanide (free) Phenol (monohydric) | Documented In-House Method No DETSC 2130 by Skalar | A |
| | Total Organic Carbon (TOC) | Documented In-House Method No DETSC 2084 by combustion and infra-red detection | A |
| | Loss on Drying at <30°C Moisture Content at 105°C | Documented In-House Method No DETSC 1004 by Gravimetry | A |
| | Fraction Organic Carbon by Calculation (Expressed as fraction of TOC) | Documented In-House Method No DETSC 2084 | A |
| | Extractable Petroleum Hydrocarbons (EPH), C ₁₀ -C ₃₅ , specifically: Total EPH (C ₁₀ -C ₃₅) | Documented In-House Method DETSC 3072 by GC-FID | A |
| | Total Extractable Aliphatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aliphatic) C ₁₂ -C ₁₆ (aliphatic) C ₁₆ -C ₂₁ (aliphatic) C ₂₁ -C ₃₅ (aliphatic) Total Extractable Aromatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aromatic) C ₁₂ -C ₁₆ (aromatic) C ₁₆ -C ₂₁ (aromatic) C ₂₁ -C ₃₅ (aromatic) | | |
| | Polychlorinated Biphenyls (total), comprising: PCB 28 / 31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 | Documented In-House Method No DETSC 3401 by GC-MS | A |



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| SOILS (cont'd) | <u>Analysis</u> (cont'd) | | |
| | Polyaromatic Hydrocarbons, comprising: Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene Total PAH's (Sum of EPA 16) | Documented in house method No DETSC 3303 by GC-MS | A |
| | Gross Calorific value | Documented In-House Method No DETSC 5008 using Bomb calorimetry | A |
| | Net Calorific value | Documented in house calculation | A |
| Soils | Carbonate as Equivalent Carbon Dioxide | Documented in house method DETSC 2005 using titrimetry | A |
| Soils | Semi Volatile Organic Compounds: Phenol 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Bis(2-chloroisopropyl)ether Benzyl alcohol 2-Methyl phenol N-Nitrosodi-n-propylamine Hexachloroethane 4-Methyl phenol & 3-Methylphenol Nitrobenzene Isophorone | Documented in house method DETSC 3433 using GCMS | A |



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| SOILS (cont'd) | <u>Analysis (cont'd)</u> Semi Volatile Organic Compounds: (cont'd) 2-Nitrophenol 2,4-Dimethyl phenol Bis (2-chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene Hexachlorobutadiene 4-Chloro-3-methyl phenol 2-Methylnaphthalene 1-Methylnaphthalene 2,4,6-Trichlorophenol 2-Chloronaphthalene Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene Acenaphthene Dibenzofuran Diethylphthalate Fluorene Diphenylamine Azobenzene 4-Bromophenyl-1-phenylether Hexachlorobenzene Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene Pyrene Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene | Documented in house method DETSC 3433 using GCMS | A |



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| SOILS (cont'd) | <u>Analysis (cont'd)</u> Volatile Organic Compounds: 1,1 Dichloroethylene Trans-1,2-dichloroethylene 1,1-dichloroethane Cis-1,2-dichloroethylene 2,2-dichloropropane Bromochloromethane Chloroform 1,1,1-trichloroethane 1,1-dichloropropene Carbon tetrachloride Benzene 1,2-dichloroethane Trichloroethylene 1,2-dichloropropane Dibromomethane Bromodichloromethane cis-1,3-dichloropropene Toluene trans-1,3-dichloropropene 1,1,2-trichloroethane Tetrachloroethylene 1,3-dichloropropane Dibromochloromethane 1,2-dibromoethane Chlorobenzene 1,1,1,2-tetrachloroethane Ethylbenzene m+p-Xylene o-Xylene Bromoform Isopropylbenzene Bromobenzene 1,2,3-trichloropropane n-propylbenzene 2-chlorotoluene 1,3,5-trimethylbenzene 4-chlorotoluene Tert-butylbenzene | Documented in house method DETSC 3431 using Headspace GCMS | A |



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|---------------------------|--|--|---------------|
| SOILS (cont'd) | <u>Analysis (cont'd)</u> Volatile Organic Compounds: 1,2,4-trimethylbenzene p-isopropyltoluene 1,3-dichlorobenzene 1,4-dichlorobenzene n-butylbenzene 1,2-dichlorobenzene 1,2-dibromo-3-chloropropane 1,2,4-trichlorobenzene Naphthalene 1,2,3-trichlorobenzene 1,2-dichlorobenzene 1,2-dibromo-3-chloropropane 1,2,4-trichlorobenzene | Documented in house method DETSC 3431 using Headspace GCMS | A |
| | Acid Herbicides, specifically: 2,4,5-TP (Fenoprop) Clopyralid Picloram 2,3,6-TBA Dicamba Benazolin Fluroxypyr Bentazone 2,4-D Bromoxynil MCPA Triclopyr Dichloprop Ioxynil Mecoprop 2,4,5-T 2,4-DB | Documented in house method DETSC 3447 using LC-MS-MS | A |



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| BIOMASS and SOLID RECOVERED FUELS | <u>Analysis</u> (cont'd) | | |
| | Total Moisture | Documented In-House Method No DETSC 5004 using gravimetric techniques | A |
| | Analysis Moisture | Documented In-House Method No DETSC 5005 using gravimetric techniques | A |
| | Volatile matter | Documented In-House Method No DETSC 5003 using gravimetric techniques | A |
| | Gross Calorific value | Documented In-House Method No DETSC 5007 using Bomb calorimetry | A |
| | Net Calorific value | Documented in house calculation | A |
| | Ash Content | Documented In-House Method No DETSC 5002 using gravimetric techniques | A |
| | Mercury | Documented In-House Method No DETSC 5015 using hot block digestion and Cold Vapour Atomic Fluorescence | A |



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| BIOMASS and SOLID RECOVERED FUELS (cont'd) | <u>Analysis</u> (cont'd) | | |
| | <u>Metals</u> Aluminium Arsenic Antimony Barium Beryllium Cadmium Calcium Cobalt Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorous Potassium Selenium Sodium Thallium Tin Titanium Vanadium Zinc | Documented In-House Method No DETSC 5014 using hot block digestion and ICP-OES | A |
| | Sulphur | Documented In-House Method No DETSC 5016 using hot block digestion and ICP-OES | A |
| | Chlorine Fluorine | Documented In-House Method No DETSC 5017 using Ion Chromatography | A |
| | Biomass Content | Documented In-House Method No DETSC 5012 based on BS EN ISO 21644:2021 using Gravimetry | A |
| | Carbon, Hydrogen, Nitrogen | Documented In-House Method No DETSC 5013 using CHN analyser | A |



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| BIOMASS and SOLID RECOVERED FUELS (cont'd) | <u>Analysis</u> (cont'd) Oxygen (by calculation) | Documented In-House Method No DETSC 5013 by calculation | A |
| RECYCLED WASTE Trommel Fines | Loss on Ignition at 440°C | Documented in house method ref DETSC 5022 – using Gravimetric Analysis in accordance with HMRC Excise Notice LFT1 27 March 2015 | A |
| ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos | <u>Health and Hygiene</u> Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite | Health and Safety Executive - Asbestos: The Analysts' Guide (HSG 248) – 2021 Documented In-House Method DETSC 1101 using stereo- microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. | A |
| ASBESTOS IN SOILS – The Identification of Asbestos fibres in bulk samples of Soil, <i>specifically:</i> Soil Aggregate Ballast | Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite | Documented In-House Method DETSC 1102 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248. | A |
| ASBESTOS IN SOILS – The Identification and Quantification of Asbestos fibres in bulk samples of Soil, <i>specifically:</i> Soil Ballast Aggregate, | Identification and Quantification of Asbestos content of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite | Documented In-House Method DETSC 1102 for identification using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248 Documented In-House Method DETSC 1102 for quantification of asbestos using gravimetry and phase contrast microscopy | A |
| ASBESTOS CONTAINING MATERIALS | Water Absorption | Documented In-House Method DETSC 1103 | A |



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| SOILS | <u>Analysis</u> | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil | |
| | pH value | Documented In-House Method No DETSC 2008 by voltammetry | A |
| | Loss on Ignition | Documented In-House Method No DETSC 2003 based on BS 1377:Part 3:1990 | A |
| | Organic Matter Content | Documented In-House Method No DETSC 2002 based on BS 1377:Part 3:1990 | A |
| | Total Organic Carbon (TOC) | Documented In-House Method No DETSC 2084 by combustion and infra-red detection | A |
| | Fraction Organic Carbon by Calculation (Expressed as fraction of TOC) | Documented In-House Method No DETSC 2084 | A |
| | Sulphate (acid soluble) | Documented In-House Method No DETSC 2321 by ICP-OES | A |
| | Sulphate (water soluble) | Documented In-House Method No DETSC 2076 (ICP-OES) | A |
| | Sulphate (acid soluble) | Documented In-House Method No DETSC 2004 | A |
| | Ammonia | Documented In-House Method No DETSC 2119 | A |
| | Thiocyanate | Documented In-House Method No DETSC 2130 | A |
| | Cyanide (total) | Documented In-House Method No DETSC 2130 by Skalar | A |
| | Cyanide (free) | Documented In-House Method No DETSC 2130 by Skalar | A |



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| SOILS (cont'd) | <u>Analysis</u> (cont'd) | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd) | |
| | Boron (water soluble) | Documented In-House Method No DETSC 2311 by ICP-OES | A |
| | Mercury | Documented In-House Method No DETSC 2325 by hotblock digestion and atomic fluorescence | A |
| | Sulphur (elemental) | Documented In-House Method No DETSC 3049 by HPLC based on Standing Committee of Analysts Method (HMSO) ISBN 011 751 726 7 | A |
| | Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Selenium Vanadium Zinc | Documented In-House Method No DETSC 2301 by hotblock digestion and ICP-OES based on Standing Committee of Analysts Method (HMSO) ISBN 011 753 2444 | A |
| | Phenol (monohydric) | Documented In-House Method No DETSC 2130 | A |
| | Volatile Organic Compounds (VOCs), specifically: Benzene Ethylbenzene Toluene o-Xylene (m+p)-Xylenes | Documented In-House Method No DETSC 3321 | A |



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| SOILS (cont'd) | <u>Analysis</u> (cont'd) | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd) | |
| | Extractable Petroleum Hydrocarbons (EPH) (C ₁₀ -C ₄₀) Diesel Range (C ₁₀ -C ₂₄) Lube Oil Range / Mineral Oil Range (C ₂₄ -C ₄₀) | Documented In-House Method No DETSC 3311 by GC-FID | A |
| | Extractable Petroleum Hydrocarbons (EPH), C ₁₀ -C ₃₅ , specifically: Total EPH (C ₁₀ -C ₃₅) | Documented In-House Method DETSC 3072 by GC-FID | A |
| | Total Extractable Aliphatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aliphatic) C ₁₂ -C ₁₆ (aliphatic) C ₁₆ -C ₂₁ (aliphatic) C ₂₁ -C ₃₅ (aliphatic) | | |
| | Extractable Petroleum Hydrocarbons (EPH), C ₁₀ -C ₃₅ , specifically: Total Extractable Aromatic Hydrocarbons (C ₁₀ -C ₃₅) C ₁₀ -C ₁₂ (aromatic) C ₁₂ -C ₁₆ (aromatic) C ₁₆ -C ₂₁ (aromatic) C ₂₁ -C ₃₅ (aromatic) | Documented In-House Method DETSC 3072 by GC-FID | A |



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| SOILS (cont'd) | <u>Analysis (cont'd)</u> Extractable Petroleum Hydrocarbons (EPH) specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC35-EC40 >EC10-C35 >EC10-C40 >EC10-C24 >EC24-C40 Total Extractable Aliphatic Hydrocarbons specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC35-EC40 >EC10-C35 >EC10-C40 Total Extractable Aromatic Hydrocarbons specifically: >EC10-EC12 >EC12-EC16 >EC16-EC21 >EC21-EC35 >EC10-C35 | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd) Documented In-House Method DETSC 3521 by GC/GC-FID | A |



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| SOILS (cont'd) | <u>Analysis</u> (cont'd) | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soil (cont'd) | |
| | Polychlorinated Biphenyls (total), comprising: PCB 28 / 31 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180 | Documented In-House Method No DETSC 3401 by GC-MS | A |
| | Polyaromatic Hydrocarbons, comprising: Naphthalene Fluoranthene Acenaphthylene Acenaphthene Phenanthrene Pyrene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Benzo(ghi)perylene | Documented in house method No DETSC 3303 by GC-MS | A |
| WASTEWATERS | <u>Analysis</u> | Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent | |
| | Chemical Oxygen Demand | Method DETSC 2032 by Colorimetry | A |
| END | | | |