


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS TESTING 1110</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Chemex Environmental International Limited</h3> <p>Issue No: 027 Issue date: 09 January 2012</p>	
	<p>Unit J Broad Lane Industrial Estate Cottenham Cambridge CB24 8SW</p>	<p>Contact: Mr N E Read Tel: +44 (0)1954-252519 Fax: +44 (0)1954-251764 E-Mail: <a href="mailto:analysis@chemex.co.uk">analysis@chemex.co.uk</a> Website: <a href="http://www.chemex.co.uk">www.chemex.co.uk</a></p>
<p>Testing performed at the above address only</p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS	<p><u>Chemical Tests</u></p> <p><b>Organohalogen Pesticides</b></p> <p>Alachlor Aldrin Chlorthal-dimethyl Chlorthalonil cis-Chlordane (alpha) trans-Chlordane (gamma) 4,4'-DDD 4,4'-DDE 4,4'-DDT Diallate E/Z Dichlorbenil Dieldrin Endosulfan I Endosulfan II Endosulphan sulphate Endrin Endrin ketone alpha-HCH beta-HCH delta-HCH gamma-HCH Heptachlor Heptachlor epoxide Hexachlorobenzene Isodrin Nitrofen Quintozene Tecnazene Trifluralin</p>	<p>Documented In-House Method OH/S/1.1 OH/OP/S/1.1 OH/PCB/S/1.1 Based on USEPA Method 608 using Gas Chromatography with Electron Capture Detector (GC-ECD)</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>BTEX Hydrocarbons</b></p> <p>Benzene Ethyl Benzene Tertiary Butyl Methyl Ether (TBME) Toluene Xylene - (ortho) Xylene - (total meta and para)</p> <p><b>Polycyclic Aromatic Hydrocarbons</b></p> <p>Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Chrysene Dibenz(a,h)anthracene Fluorene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene Total PAH (Sum of 16 above)</p> <p><b>Polychlorinated Biphenyl</b></p> <p>Aroclor mixture 1016 Aroclor mixture 1221 Aroclor mixture 1232 Aroclor mixture 1242 Aroclor mixture 1248 Aroclor mixture 1254 Aroclor mixture 1260 PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180</p>	<p>Documented In-House Method</p> <p>Method No BTEX/S/2.0 based on USEPA SW-846 Method 3810, 8015 and SCL 818 using Headspace Gas Chromatography with Photo Ionisation Detector (GC/PID)</p> <p>Documented In-House Method</p> <p>Method No PAH/S/1.2 based on USEPA Method 610 using Gas Chromatography/Mass Spectrometry (GC/MS)</p> <p>Documented In-House Method</p> <p>Method No PCB/S/2.1A based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)</p> <p>Method No PCB/S/3C based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Semi-Volatile Organics</b></p> <p>Acenaphthene Acenaphthylene 2-Acetylaminofluorene Acetophenone Anthracene p-(Dimethylamino)Azobenzene Benzo (a)Anthracene Benzo (b)Fluoranthene Benzo (g,h,i)Perylene Benzo (k)Fluoranthene Benzo(a)Pyrene Benzyl Alcohol Bis(2-Chloroethoxy)methane Bis(2-Chloroethyl) ether Bis(2-Chloroisopropyl)ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl-Phenylether Butylbenzylphthalate Carbazole 4-Chloro-3 -Methylphenol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl-Phenylether Chrysene m/p-Cresol o-Cresol Dibenz (a,h)Anthracene Dibenzofuran Di-n-Butylphthalate 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4-Dichlorophenol Diethylphthalate Dimethylphthalate m-Dinitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene Ethyl Methane Sulfonate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane</p>	<p>Method No 8270/S/2.0 based on USEPA SW-846 Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Semi-Volatile Organics</b> (cont'd)</p> <p>Hexachloropropene            Indeno (1,2,3-cd)Pyrene            Isophorone            Isosafrole cis and trans            3-Methylcholanthrene            2-Methylnaphthalene            Naphthalene            2-Nitroaniline            4-Nitroaniline            Nitrobenzene            5-Nitro-o-toluidine            4-Nitrophenol            N-Nitrosodiethylamine            N-Nitrosodi-n-butylamine            N-Nitrosodi-n-propylamine            N-Nitrosomethylethylamine            N-Nitrosomorpholine            N-Nitrosopiperidine            N-Nitrosopyrrolidine            Di-Octylphthalate            Pentachlorobenzene            Pentachloronitrobenzene            Phenacetin            Phenanthrene            Phenol            Pyrene            Safrole            1,2,4,5-Tetrachlorobenzene            2,3,4,6-Tetrachlorophenol            1,2,4-Trichlorobenzene            2,4,5-Trichlorophenol            2,4,6-Trichlorophenol            1,3,5-Trinitrobenzene</p> <p><b>Total Petroleum Hydrocarbons</b>  <b>C<sub>8</sub> to C<sub>40</sub></b></p>	<p>Method No 8270/S/2.0 based on USEPA SW-846 Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p> <p>Documented In-House Method            Method No TPH/S/2.2 based on USEPA SW-846 Method 8015C using Gas Chromatography with Flame Ionisation Detector (GC/FID)</p>



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)  <b>Volatile Organics</b>  Acetone Allyl chloride Benzene Bromobenzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) n-Butylbenzene s-Butylbenzene t-Butylbenzene Carbon disulphide Carbon tetrachloride Chlorobenzene 1-Chlorobutane Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromo-3-chloropropane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene trans-1,4-Dichloro-2-butene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 2,2-Dichloropropane cis-1,2-Dichloroethene trans-1,2-Dichloroethene Dichloromethane 1,2-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Diethyl ether Ethyl benzene	Method No VOA/SL/3.0 and VOA/SM/3.0 based on USEPA SW-846 Method 8260B using Gas Chromatography/Mass Spectrometry (GC/MS)



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Volatile Organics (cont'd)</b></p> <p>Hexachloroethane 2-Hexanone (MBK) Methyl methacrylate 4-Methyl-2-pentanone (MIBK) 2-Nitropropane Pentachloroethane i-Propylbenzene n-Propylbenzene 4-i-Propyltoluene Styrene Tertiary butyl methyl ether (TBME) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Tetrahydrofuran Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Xylene (ortho) Xylene (total meta and para)</p>	<p>Method No VOA/SL/3.0 and VOA/SM/3.0 based on USEPA SW-846 Method 8260B using Gas Chromatography/Mass Spectrometry (GC/MS)</p>
SOILS	<p>Extractable Hydrocarbons: (C<sub>8</sub> – C<sub>40</sub>) Also banding, including: 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>36</sub>, C<sub>36</sub>-C<sub>40</sub>,</p> <p><b>Metals by ICP-MS</b></p> <p>Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium</p>	<p>Documented In-House Method Method No EHS/S/1.0 using Gas Chromatography with Flame Ionisation Detector (GC/FID)</p> <p>Documented In-House Method MET/ICPMS/1.0 based on USEPA method SW-846 6020 using Inductively Coupled Plasma and Mass Spectrometry (ICP-MS)</p>



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Metals by ICP-MS (cont'd)</b></p> <p>Chromium Cobalt Copper Gallium Indium Lead Magnesium Molybdenum Manganese Nickel Potassium Selenium Sodium Strontium Thallium Titanium Vanadium Zinc</p> <p><b>Metals by CV-AFS</b></p> <p>Mercury</p> <p><b>Volatile Organics</b></p> <p>Benzene Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform</p>	<p>MET/ICPMS/1.0 based on USEPA method SW-846 6020 using Inductively Coupled Plasma and Mass Spectrometry (ICP-MS)</p> <p>Documented In-House Method</p> <p>Method No MET/AF/1.0 based on USEPA Method SW-846 1631B using Cold Vapour /Atomic Fluorescence Spectrometry (CV-AFS)</p> <p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing for soils</p> <p>Method No VOA/SL/2.0 and VOA/SM/2.0 based on USEPA Method 624 and SW-846 8260 using Gas Chromatography/Mass Spectrometry (GC/MS)</p>



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SOILS (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Volatile Organics (cont'd)</b></p> <p>Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene Cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Dichloromethane 1,2-Dichloropropane Cis-1,2-Dichloropropane Trans-1,2-Dichloropropane Ethyl Benzene Freon 113 MIBK Styrene TBME Tetrachloroethene 1,1,2,2-Tetrachloroethane Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane Vinyl Chloride Xylene (ortho) Xylene (total meta and para)</p> <p><b>Semi-Volatile Organics</b></p> <p>Acenaphthene Acenaphthylene 2-Acetylaminofluorene</p> <p>Anthracene p-(Dimethylamino)Azobenzene Benzo (a)Anthracene Benzo (b)Fluoranthene Benzo (g,h,i)Perylene</p>	<p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing for soils</p> <p>Method No 8270/S/2.0 based on USEPA SW-846 Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Semi-Volatile Organics (cont'd)</b></p> <p>Benzo (k)Fluoranthene Benzo(a)Pyrene Benzyl Alcohol Bis(2-Chloroethoxy)methane</p> <p>Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl-Phenylether Butylbenzylphthalate Carbazole 4-Chloro-3 -Methylphenol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl-Phenylether Chrysene m/p-Cresol o-Cresol Dibenz (a,h)Anthracene Dibenzofuran Di-n-Butylphthalate</p> <p>Diethylphthalate Dimethylphthalate m-Dinitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene</p> <p>Fluoranthene Fluorene Hexachlorobenzene</p> <p>Indeno (1 ,2,3-cd)Pyrene</p> <p>Isosafrole cis and trans</p> <p>2-Methylnaphthalene</p> <p>2-Nitroaniline</p> <p>5 -Nitro-o-toluidine 4-Nitrophenol N-Nitrosodiethylamine N-Nitrosodi-n-butylamine N-Nitrosodi-n-propylamine</p>	<p>Method No 8270/S/2.0 based on USEPA SW-846 Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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SOILS (cont'd)	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Semi-Volatile Organics (cont'd)</b></p> <p>N-Nitrosomorpholine N-Nitrosopyrrolidine Pentachlorobenzene Pentachloronitrobenzene Phenacetin Phenanthrene Phenol Pyrene</p> <p>1,2,4,5 -Tetrachlorobenzene 2,3,4,6-Tetrachlorophenol</p> <p>2,4,5-Trichlorophenol 2,4,6-Trichlorophenol</p> <p><b>Total Petroleum Hydrocarbons C<sub>8</sub> to C<sub>40</sub></b></p> <p><b>Polychlorinated Biphenyl</b> Aroclor mixture 1016 Aroclor mixture 1221 Aroclor mixture 1232 Aroclor mixture 1242 Aroclor mixture 1248 Aroclor mixture 1254 Aroclor mixture 1260</p>	<p>Method No 8270/S/2.0 based on USEPA SW-846 Method 8270C</p> <p>using Gas Chromatography Mass Spectrometry (GC/MS)</p> <p>Documented In-House Method Method No TPH/S/2.2 based on USEPA Method 418.1 using Gas Chromatography with Flame Ionisation Detector (GC/FID)</p> <p>Documented In-House Methods to meet the requirements of the Environment Agency MCERTS performance standard - chemical testing for soils</p> <p>Method No PCB/S/2.1A based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)</p>



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)  <b>Metals by ICP-MS</b> Arsenic Barium Beryllium Cadmium Chromium Copper Lead Molybdenum Nickel Selenium Thallium Vanadium Zinc  <b>Metals by CV-AFS</b> Mercury	MET/ICPMS/1.0 based on USEPA method SW-846 6020 using Inductively Coupled Plasma and Mass Spectrometry (ICP-MS)  Documented In-House Method Method No MET/AF/1.0 based on USEPA Method SW-846 1631B using Cold Vapour /Atomic Fluorescence Spectrometry (CV-AFS)
SWABS	<u>Chemical Tests</u>  <b>Polychlorinated Biphenyl</b>  Aroclor mixture 1016 Aroclor mixture 1221 Aroclor mixture 1232 Aroclor mixture 1242 Aroclor mixture 1248 Aroclor mixture 1254 Aroclor mixture 1260  <b>Polychlorinated Biphenyl</b>  PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	Documented In-House Method  Method No PCB/SW/2.1 based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)  Documented In-House Method  Method No PCB/SW/3.1 based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)



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<p>WATERS</p> <p>- Tap Water</p>	<p><u>Chemical Tests</u></p> <p><b>Volatile Organics</b></p> <p>Benzene Bromobenzene Bromodichloromethane Bromoform Bromomethane n-Butylbenzene s-Butylbenzene t-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene trans-1,2-Dichloroethene cis-1,2-Dichloroethene Dichloromethane 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethyl Benzene Hexachlorobutadiene Naphthalene i-Propylbenzene n-Propylbenzene 4-Propyltoluene</p>	<p>Documented In-House Method Method No VOA/DW/2.0 based on USEPA Method 524.2 using Gas Chromatography/Mass Spectrometry</p>



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<p>WATERS (cont'd)</p> <p>- Tap Water (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Volatile Organics</b> (cont'd)</p> <p>Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Xylene (total meta and para) Xylene (ortho)</p>	<p>Documented In-House Method Method No VOA/DW/2.0 based on USEPA Method 524.2 using Gas Chromatography/Mass Spectrometry</p>
<p>Ground Water, Surface Water, Effluent</p>	<p><b>Volatile Organics</b></p> <p>Acetone Allyl chloride Benzene Bromobenzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) n-Butylbenzene s-Butylbenzene t-Butylbenzene Carbon disulphide Carbon tetrachloride Chlorobenzene 1-Chlorobutane Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromoethane 1,2-Dibromo-3-chloropropane</p>	<p>Documented In-house method VOA/W/3.0 based on USEPA SW-846 Method 8260B using Gas Chromatography/Mass Spectrometry (GC/MS)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Volatile Organics</b> (cont'd)</p> <p>Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene trans-1,4-Dichloro-2-butene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 2,2-Dichloropropane cis-1,2-Dichloroethene trans-1,2-Dichloroethene Dichloromethane 1,2-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Diethyl ether Ethyl benzene Ethyl Methacrylate Hexachlorobutadiene Hexachloroethane 2-Hexanone (MBK) Methyl methacrylate 4-Methyl-2-pentanone (MIBK) Naphthalene 2-Nitropropane Pentachloroethane i-Propylbenzene n-Propylbenzene 4-i-Propyltoluene Styrene Tertiary butyl methyl ether (TBME) 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Tetrahydrofuran Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane</p>	<p>Documented In-house method VOA/W/3.0 based on USEPA SW-846 Method 8260B using Gas Chromatography/Mass Spectrometry (GC/MS)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Volatile Organics</b> (cont'd)</p> <p>Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride Xylene (ortho) Xylene (total meta and para)</p> <p>Alkalinity</p> <p><b>Anions</b></p> <p>Bromide Chloride Fluoride Nitrate Nitrite Sulphate</p> <p>Chemical Oxygen Demand (COD)</p> <p>Electrical Conductivity</p> <p>Ferrous Iron</p> <p>Hexavalent Chromium</p> <p>Ortho-phosphate</p>	<p>Documented In-house method VOA/W/3.0 based on USEPA SW-846 Method 8260B using Gas Chromatography/Mass Spectrometry (GC/MS)</p> <p>Method No TRAD/ALK/1.0 based on SCA Methods (1981) using Titrimetry</p> <p>Documented In-House Method No TRAD/IC/W/1.0 based on USEPA method SW-846 9056 (Sept 1994) using Ion Chromatography</p> <p>Method No TRAD/COD/1.0 and 2.0 based on USEPA Method 410.4 using Spectrophotometry</p> <p>Method No TRAD/EC/1.0 based on SCA Method (1978) using a conductivity meter</p> <p>Method No TRAD/FE2/1.0 based on SMA AWWA APHA WPCF Method 315B (16<sup>th</sup> Edn) using Spectrophotometry</p> <p>Method No TRAD/CrVI/1.0 based on SCA Method, (1980) using Spectrophotometry</p> <p>Method No TRAD/PO<sub>4</sub>/1.0 based on SCA Method (1980) using Spectrophotometry</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Anions (cont'd)</b></p> <p>pH</p> <p>Silica</p> <p>Total Suspended Solids</p> <p><b>Metals by ICP-MS</b></p> <p>Aluminium Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Gallium Indium Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Strontium Thallium Tin Titanium Vanadium Zinc</p>	<p>Method No TRAD/pH/2.0 based on SCA Method (1978) using a pH meter</p> <p>Method No TRAD/SIO<sub>2</sub>/1.0 based on SMA AWWA APHA WPCF Method using Spectrophotometry</p> <p>Method No TRAD/TSS/1.0 based on SCA Method (1980) using Gravimetric analysis</p> <p>Documented In-House Method MET/ICPMS/1.0 based on USEPA Method SW-846 6020 using Inductively Coupled Plasma and Mass Spectrometry (ICP-MS)</p>



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Ground Water, Surface Water. Effluent (cont'd)	<p><u>Chemical Tests</u> (cont'd)</p> <p><b>Metals by CV-AFS</b> Mercury</p> <p><b>Organohalogen Pesticides</b></p> <p>Alachlor Aldrin Chlorthal-dimethyl Chlorthalonil cis-Chlordane (alpha) trans-Chlordane (gamma) 4,4'-DDD 4,4'-DDE 4,4'-DDT Diallate E/Z Dichlorbenil Dieldrin Endosulfan I Endosulfan II Endosulphan sulphate Endrin Endrin ketone alpha-HCH beta-HCH delta-HCH gamma-HCH Heptachlor Heptachlor epoxide Hexachlorobenzene Isodrin Nitrofen Quintozene Tecnazene Trifluralin Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene</p>	<p>Documented In-House Method Method No MET/AF/1.0 based on USEPA Method SW-846 1631B using Cold Vapour Atomic Fluorescence Spectrometry (CV- AFS)</p> <p>Method No OH/W/1.1, OH/OP/W/1.1 and OH/PCB/W/1.1 Based on USEPA Method 608 Using Gas Chromatography with Electron Capture Detector (GC/ECD)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Polycyclic Aromatic Hydrocarbons</b></p> <p>Benzo(g,h,i)perylene Benzo(a)pyrene Chrysene Dibenz(a,h)anthracene Fluorene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene Total PAH (Sum of 16 Above)</p> <p><b>Polychlorinated Biphenyl</b></p> <p>Aroclor mixture 1016 Aroclor mixture 1221 Aroclor mixture 1232 Aroclor mixture 1242 Aroclor mixture 1248 Aroclor mixture 1254 Aroclor mixture 1260 PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180</p> <p><b>Semivolatile Organics</b></p> <p>Acenaphthene Acenaphthylene 2-Acetylaminofluorene Acetophenone Aldrin Aniline Anthracene p-(Dimethylamino)Azobenzene Benzo (a) Pyrene Benzo (b) Fluoranthene Benzo (g,h,i) Perylene</p>	<p>Method No PAH/W/1.2 based on USEPA Method 610 using Gas Chromatography/Mass Spectrometry (GC/MS)</p> <p>Documented In-House Method Method No PCB/W/2.1A based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)</p> <p>Method No PCB/W/3C based on USEPA Method 608 and SW-846 8082 using Gas Chromatography with Electron Capture Detector (GC/ECD)</p> <p>Documented In-House Method USEPA Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Semivolatile Organics (cont'd)</b></p> <p>Benzo (k) Fluoranthene Benzo(a)anthracene beta BHC alpha BHC delta BHC gamma BHC Bis (2-Chloroethoxy) methane Bis (2-Chloroethyl) ether Bis (2-Chloroisopropyl) ether Bis (2-Ethylhexyl) Phthalate Butylbenzylphthalate 4-Bromophenyl-Phenylether Carbazole Chlorobenzilate 4-Chloro-3-Methylphenol 4-Chloroaniline 2-Chloronaphthalene 4-Chlorophenyl-Phenylether 2-Chlorophenol Chrysene m/p-Cresol O-Cresol Diallate cis/trans Diallate cis/trans Dibenz (a,h) Anthracene Dibenzofuran 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3-3-Dichlorobenzidine 2,6-Dichlorophenol 2,4-Dichlorophenol 4,4-DDD 4,4-DDE 4,4-DDT Dieldrin Diethylphthalate 3,3-Dimethylbenzidine 2,4-Dimethylphenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Dimethoate</p>	<p>Documented In-House Method Method No 8270/W/2.0 based on USEPA Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Semivolatile Organics (cont'd)</b></p> <p>m-Dinitrobenzene Dimethylbenz(a)anthracene Dimethylphthalate Di-n-Butylphthalate Di-n-octylphthalate Dinoseb (DNBP) Diphenylamine Disulfoton Endosulfan sulfate Endrin Ethyl Methane Sulfonate Fluoranthene Fluorene Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Hexachloropropene Indeno (1,2,3-cd) Pyrene Isodrin Isophorone Isosafrole cis/trans Isosafrole cis/trans. Methapyrilene Methoxychlor 3-Methylcholanthrene 2-Methyl-4,6-Dinitrophenol Methyl Methane Sulfonate 2-Methylnaphthalene Methyl Parathion Naphthalene 3-Nitroaniline 2-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol 5-Nitro-o-toluidine N-Nitrosodiethylamine N-Nitrosodi-n-butylamine N-Nitrosodi-n-propylamine N-Nitrosomethylethylamine N-Nitrosomorpholine</p>	<p>Documented In-House Method Method No 8270/W/2.0 based on USEPA Method 8270C using Gas Chromatography Mass Spectrometry (GC/MS)</p>



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<p>WATERS (cont'd)</p> <p>Ground Water, Surface Water. Effluent (cont'd)</p>	<p><u>Chemical Tests (cont'd)</u></p> <p><b>Semivolatile Organics (cont'd)</b></p> <p>N-Nitrosopiperidine N-Nitrosopyrrolidine Parathion Pentachlorobenzene Pentachloronitrobenzene Phenacetin Phenanthrene Phorate 2-Picoline Pronamide Pyrene Safrole Sulfotepp 1,2,4,5-Tetrachlorobenzene 2,3,4,6-Tetrachlorophenol Thionazin O-Toluidine 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol o,o,o-Triethyl Phosphorothioate</p> <p><b>Total Petroleum Hydrocarbons C<sub>8</sub> to C<sub>40</sub></b></p> <p><b>BTEX Hydrocarbons</b></p> <p>Benzene Ethyl Benzene</p> <p>Tertiary butyl methyl ether (TBME) Toluene Xylene (ortho) Xylene (total meta and para)</p>	<p>Documented In-House Method Documented In-House Method USEPA Method 8270C using Gas Mass Spectrometry (GC/MS)</p> <p>Documented In-House Method Method No TPH/W/2.2 based on USEPA SW-846 Method 8015C using Gas Chromatography with Flame Ionisation Detector (GC/FID)</p> <p>Documented In-House Method</p> <p>BTEX/W/2.1 based on USEPA SW-846 Methods 3810, 8015 and SCL 818 using Gas Chromatography with Photo Ionisation Detector (GC/PID)</p>
END		