

Analytical Laboratories (S) Pte Ltd  
 8 Kaki Bukit Place  
 Singapore 416186

# Schedule

Certificate No. : LA-1999-0167-F

Issue No. : 15

Date : 18 January 2011

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## SCOPE OF ACCREDITATION

FIELD OF TESTING : Environmental Testing

MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	METHODS
<b>A. WATERS</b>		APHA Methods are based on 21 <sup>st</sup> Edition : 2005
I.a. Water for Drinking and Industrial Purposes	1. Acidity	APHA 2310B
	2. Albuminoid ammonia	Lovibond
I.b. Deionized Water	3. Alkalinity	APHA 2320B
I.c. Reverse Osmosis Water	4. Aluminium	APHA 3111D / 3113B, APHA 3120B
I.d. Purified Water	5. Ammonia	APHA 4500-NH <sub>3</sub> B/C/D Ion Chromatography / Nesslerization APHA 4500-NH <sub>3</sub> F (Phenate Method)
	6. Anionic detergents	APHA 5540C
	7. Antimony	APHA 3111B / 3113B, APHA 3120B
	8. Arsenic	APHA 3114C, APHA 3120B
	9. Barium	APHA 3111D / 3113B, APHA 3120B
	10. Beryllium	APHA 3111D / 3113B, APHA 3120B
	11. Bicarbonate	APHA 2320B
	12. Bismuth	APHA 3111B / 3113B
	13. Boron	APHA 3500-B / 4500-B B/C, APHA 3120B
	14. Bromide	APHA 4500-Br <sup>-</sup> B APHA 4110C
	15. Cadmium	APHA 3111B / 3113B, APHA 3120B
	16. Calcium	APHA 3111D / 3500-Ca B Ion Chromatography, APHA 3120B

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	17. Carbon dioxide	APHA 4500-CO <sub>2</sub> B/C/D
	18. Carbonate	APHA 2320B
	19. Chloramines	Lovibond
	20. Chloride	APHA 4500-Cl <sup>-</sup> B/C, APHA 4110C
	21. Chlorine, residual and free	Lovibond Method
	22. Chromium (Hexavalent)	APHA 3500-Cr B APHA 3111B / 3113B
	23. Chromium	APHA 3111B / 3500-Cr B, APHA 3120B
	24. Cobalt	APHA 3111B / 3113B, APHA 3120B
	25. Collection and Preservation of Samples	APHA 1060B/C
	26. Colour	APHA 2120B
	27. Conductivity	APHA 2510B
	28. Copper	APHA 3111B / 3113B, APHA 3120B
	29. Cyanide	APHA 4500-CN <sup>-</sup> B/C/D/E/F
	30. Fixed and volatile solids	APHA 2540E
	31. Fluoride	APHA 4500-F <sup>-</sup> B/C/D APHA 4110C
	32. Hardness (calcium & total)	APHA 2340B/C
	33. Hydrogen sulphide	APHA 4500-S <sup>2-</sup> C/D/F/G
	34. Hydroxyl ion	APHA 2320B
	35. Iodine	APHA 4500-I B
	36. Iron	APHA 3111B / 3113B, APHA 3120B
	37. Kjeldahl nitrogen	APHA 4500-Norg B
	38. Lead	APHA 3111B / 3113B, APHA 3120B
	39. Lithium	APHA 3111B, APHA 3120B
	40. Magnesium	APHA 3111B / APHA 3500-Mg B / Ion Chromatography, APHA 3120B
	41. Manganese	APHA 3111B / 3113B, APHA 3120B
	42. Mercury	APHA 3112B

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	43. Molybdenum	APHA 3111D / 3113B, APHA 3120B
	44. Nickel	APHA 3111B / 3113B, APHA 3120B
	45. Nitrate	APHA 4500-NO <sub>3</sub> <sup>-</sup> B/D/E, APHA 4110 C
	46. Nitrite	APHA 4500-NO <sub>2</sub> <sup>-</sup> B APHA 4110C
	47. Odour	In-house Method WE 001 (09)
	48. Permanganate value at 27°C for 4 hours	Analysis of Raw, Potable and Waste Water, HMSO, 1972
	49. pH	APHA 4500-H <sup>+</sup> B
	50. Phenolic compounds	APHA 5530 B/C/D
	51. Phosphate	APHA 4500-P B/C/D/E APHA 4110C
	52. Potassium	APHA 3111B / Ion Chromatography, APHA 3120B
	53. Sampling of water	BS 6068 Part 6, Section 6.5 : 1998
	54. Selenium	APHA 3114C, APHA 3120B
	55. Silica (total)	APHA 4500-SiO <sub>2</sub> C/D/Gravimetric
	56. Silica	APHA 4500-SiO <sub>2</sub> F, APHA 3120B
	57. Silt density index	ASTM D4189-2007
	58. Silver	APHA 3111B / 3113B, APHA 3120B
	59. Sodium	APHA 3111B / Ion Chromatography, APHA 3120B
	60. Strontium	APHA 3111B, APHA 3120B
	61. Sulphate	APHA 4500-SO <sub>4</sub> <sup>2-</sup> C/D/E APHA 4110C
	62. Taste	
	63. Temperature	
	64. Thallium	APHA 3111B / 3113B, APHA 3120B
	65. Total dissolved solids	APHA 2540C
	66. Total organic carbon	APHA 5310B
	67. Total solids	APHA 2540B

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	68. Total suspended solids	APHA 2540D
	69. Turbidity	APHA 2130B
	70. Vanadium	APHA 3120B
	71. Zinc	APHA 3111B / 3113B, APHA 3120B
	72. Faecal coliform count	APHA 9222D / APHA 9221E
	73. Standard plate count	APHA 9215 C/D BS EN ISO 6222 : 1999
	74. Total coliform count	APHA 9221B / APHA 9222B
	75. <i>Escherichia coli</i>	APHA 9221F (44.5°C/24 hrs, CFU/ 100ml)
	76. Aluminium	) USEPA 6010C-2007-ICP/AES
	77. Antimony	)
	78. Arsenic	)
	79. Barium	)
	80. Beryllium	)
	81. Boron	)
	82. Cadmium	)
	83. Calcium	)
	84. Chromium	)
	85. Cobalt	)
	86. Copper	)
	87. Iron	)
	88. Lead	)
	89. Lithium	)
	90. Magnesium	)
	91. Manganese	)
	92. Mercury	)
	93. Molybdenum	)
	94. Nickel	)
	95. Phosphorus	)
	96. Potassium	)
	97. Selenium	)
	98. Silica	)

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	99. Silver	)
	100. Sodium	)
	101. Strontium	)
	102. Thallium	)
	103. Tin	)
	104. Titanium	)
	105. Vanadium	)
	106. Zinc	)
	107. Bromide	) USEPA 300.1-1997– Ion Chromatography
	108. Chloride	)
	109. Fluoride	)
	110. Nitrate	)
	111. Nitrite	)
	112. Phosphate	)
	113. Sulphate	)
II. Trade Effluent	1. Acidity	APHA 2310B
	2. Alkalinity	APHA 2320B
	3. Aluminium	APHA 3111D / 3113B, APHA 3120B
	4. Ammonia	APHA 4500-NH <sub>3</sub> B/C/D Ion Chromatography / Nesslerization APHA 4500-NH <sub>3</sub> F (Phenate Method)
	5. Ammonia (nitrogen)	APHA 4500-N C/E/F
	6. Antimony	APHA 3111B / 3113B, APHA 3120B
	7. Arsenic	APHA 3114C, APHA 3120B
	8. Barium	APHA 3111D / 3113B, APHA 3120B
	9. Beryllium	APHA 3111D / 3113B, APHA 3120B
	10. Biochemical oxygen demand (BOD)	APHA 5210B

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	11. Bismuth	APHA 3111B / 3113C
	12. Boron	APHA 4500-B B/C, APHA 3120B
	13. Cadmium	APHA 3111B / 3113B, APHA 3120B
	14. Calcium	APHA 3111D / 3500-Ca B / Ion Chromatography, APHA 3120B
	15. Chemical oxygen demand	APHA 5220B APHA 5220C
	16. Chloride	APHA 4500-Cl <sup>-</sup> B/C APHA 4110C
	17. Chlorine, residual and free	Lovibond Method
	18. Chromium (Trivalent & Hexavalent)	APHA 3500-Cr B / 3113B APHA 3111B, APHA 3120B
	19. Cobalt	APHA 3111B / 3113B, APHA 3120B
	20. Collection and Preservation of Samples	APHA 1060B/C
	21. Colour	Lovibond
	22. Copper	APHA 3111B / 3113B, APHA 3120B
	23. Cyanide	APHA 4500-CN <sup>-</sup> B/C/D/E/F
	24. Detergents	APHA 5540C
	25. Fixed and volatile solids	APHA 2540E
	26. Fluoride	APHA 4500-F <sup>-</sup> B/C/D APHA 4110C
	27. Gold	APHA 3111C
	28. Iron	APHA 3111B / 3113B, APHA 3120B
	29. Kjeldahl nitrogen	APHA 4500-Norg B
	30. Lead	APHA 3111B / 3113B, APHA 3120B
	31. Lithium	APHA 3111B, APHA 3120B
	32. Magnesium	APHA 3500-Mg B APHA 3111B Ion Chromatography, APHA 3120B
	33. Manganese	APHA 3111B / 3113B, APHA 3120B

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	34. Mercury	APHA 3112B
	35. Molybdenum	APHA 3111D / 3113B, APHA 3120B
	36. Nickel	APHA 3111B / 3113B, APHA 3120B
	37. Nitrate	APHA 4500-NO <sub>3</sub> <sup>-</sup> B/D/E APHA 4110C
	38. Nitrite	APHA 4500-NO <sub>2</sub> <sup>-</sup> B APHA 4100C
	39. Oil and grease	APHA 5520B/D/F
	40. pH	APHA 4500-H <sup>+</sup> B
	41. Phenols	APHA 5530B/C
	42. Phosphate	APHA 4500-P B/C/D/E APHA 4110C
	43. Potassium	APHA 3111B / Ion Chromatography, APHA 3120B
	44. Sampling of water	BS 6068 Part 6, Section 6.5 : 1998
	45. Selenium	APHA 3114C, APHA 3120B
	46. Silica	APHA 4500-SiO <sub>2</sub> C/D/Gravimetric, APHA 3120B
	47. Silver	APHA 3111B / 3113B, APHA 3120B
	48. Sodium	APHA 3111B / Ion Chromatography, APHA 3120B
	49. Strontium	APHA 3111B, APHA 3120B
	50. Sulphate	APHA 4500-SO <sub>4</sub> <sup>2-</sup> C/D/E / 4110C
	51. Sulphide	APHA 4500-S <sup>2-</sup> C/D/F/G
	52. Sulphite	APHA 4500-SO <sub>3</sub> <sup>2-</sup> B
	53. Temperature	
	54. Thallium	APHA 3111B / 3113B, APHA 3120B
	55. Tin	APHA 3111D / 3113B
	56. Titanium	APHA 3111D
	57. Total dissolved solids	APHA 2540C
	58. Total organic carbon	APHA 5310B
	59. Total solids	APHA 2540B

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	60. Total suspended solids	APHA 2540D
	61. Vanadium	APHA 3111D / 3113B, APHA 3120B
	62. Zinc	APHA 3111B / 3113B, APHA 3120B
	63. Standard plate count	APHA 9215C
	64. Total coliform count	APHA 9222B
	65. Faecal coliform count	APHA 9222D / 9221E
	66. Methylene chloride	) <u>Extraction by</u>
	67. Trichloroethylene	) • USEPA 5021A – 2003
	68. 1,1,1 – Trichloroethane	) • USEPA 3510C – 1996
	69. Perchloroethylene	)
	70. Tetra-chloromethane	)
	71. 1,1,2 – Trichloroethane	) <u>Analysis by</u>
	72. Toluene	) • USEPA 8260C – 2006
	73. Styrene	) • AC / SVOCs / 0001 Ver 1.0 / 07
	74. Methyl tert-butyl-ether	)
	75. Acetone	)
	76. Nonane	)
	77. Decane	)
	78. Tetrachloroethylene	)
	79. Ethylbenzene	)
	80. Xylene (o, m, p)	)
	81. Ethanol	)
	82. Hexane	)
	83. Heptane	)
	84. Octane	)
	85. 1, 2, 4 – Trimethylbenzene	)
	86. IPA (iso propyl alcohol)	)
	87. Furan	)
	88. THF (Tetrahydrofuran)	)
	89. DMF (N, N – Dimethylformamide)	)
	90. Benzene	)
	91. Turpentine	)
	92. Methanol	)
	93. Polybrominated diphenyl ether	)
	94. Isobutanol	)
	95. Methyl ethyl ketone	)

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III. Water for Boilers & Cooling Towers	96. Methyl isobutyl ketone	)
	97. Isopropyl ether	)
	98. Diethyl ether	)
	99. Dimethyl sulphide	)
	100. Dimethyl sulphoxide	)
	1) Alkalinity	APHA 2320B
	2) Ammonia	APHA 4500-NH <sub>3</sub> B/C/D / Ion Chromatography/ Nesslerization APHA 4500-NH <sub>3</sub> F (Phenate Method)
	3) Carbon dioxide	APHA 4500-CO <sub>2</sub> B/C/D
	4) Chloride	APHA 4500-Cl <sup>-</sup> B/C
	5) Chromium (Hexavalent)	APHA 3500-Cr B / APHA 3111 B, APHA 3120B
	6) Conductivity	APHA 2510B
	7) Copper	APHA 3111B, APHA 3120B
	8) Hardness (calcium & total)	APHA 2340B/C
	9) Hydrazine	ASTM D1385-2007
	10) Iron	APHA 3111B, APHA 3120B
	11) Nitrite	APHA 4500-NO <sub>2</sub> <sup>-</sup> B APHA 4110C
	12) pH	APHA 4500-H <sup>+</sup> B
	13) Phosphate	APHA 4500-P C/D/E
	14) Sampling of water	BS 6068 Part 6, Section 6.7 : 1998
	15) Silica	APHA 4500-SiO <sub>2</sub> C/D/Gravimetric, APHA 3120B
	16) Sodium	APHA 3111B, APHA 3120B
17) Sulphate	APHA 4500-SO <sub>4</sub> <sup>2-</sup> C/E APHA 4110C	
18) Sulphite	APHA 4500-SO <sub>3</sub> <sup>2-</sup> B	
19) Total dissolved solids	APHA 2540C	
20) Total solids	APHA 2540B	
21) Standard plate count	APHA 9215C	

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IV. Water for General and Industrial Purposes (including Sea Water)	1) Ammonia	APHA 4500-NH <sub>3</sub> H APHA 4500-NH <sub>3</sub> F (Phenate Method)
	2) Carbon dioxide	APHA 4500-CO <sub>2</sub> B/C/D
	3) Chloride	APHA 4500-Cl <sup>-</sup> B/C APHA 4110C
	4) Chemical oxygen demand	Manual on Chemical Analysis of Coastal Water and Sediment, PPD, 1984
	5) Dissolved oxygen	APHA 4500-O C/G
	6) Nitrate	APHA 4500-NO <sub>3</sub> <sup>-</sup> I
	7) Phosphate	APHA 4500-P G
	8) Salinity	APHA 2520B
	9) Silica	APHA 4500-SiO <sub>2</sub> F, APHA 3120B
V. Elements	1) Aluminium	APHA 3125B, APHA 3120B
	2) Antimony	APHA 3125B, APHA 3120B
	3) Arsenic	APHA 3125B, APHA 3120B
	4) Barium	APHA 3125B, APHA 3120B
	5) Beryllium	APHA 3125B, APHA 3120B
	6) Bismuth	APHA 3125B
	7) Boron	APHA 3125B, APHA 3120B
	8) Cadmium	APHA 3125B, APHA 3120B
	9) Calcium	APHA 3125B, APHA 3120B
	10) Cerium	APHA 3125B
	11) Chromium	APHA 3125B, APHA 3120B
	12) Cobalt	APHA 3125B, APHA 3120B
	13) Copper	APHA 3125B, APHA 3120B
	14) Gallium	APHA 3125B
	15) Germanium	APHA 3125B

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	16) Gold	APHA 3125B
	17) Holmium	APHA 3125B
	18) Indium	APHA 3125B
	19) Iron	APHA 3125B, APHA 3120B
	20) Lead	APHA 3125B, APHA 3120B
	21) Lithium	APHA 3125B, APHA 3120B
	22) Magnesium	APHA 3125B, APHA 3120B
	23) Manganese	APHA 3125B, APHA 3120B
	24) Mercury	APHA 3125B
	25) Molybdenum	APHA 3125B, APHA 3120B
	26) Nickel	APHA 3125B, APHA 3120B
	27) Niobium	APHA 3125B
	28) Palladium	APHA 3125B
	29) Phosphorus	APHA 3125B
	30) Platinum	APHA 3125B
	31) Potassium	APHA 3125B, APHA 3120B
	32) Selenium	APHA 3125B, APHA 3120B
	33) Silicon	APHA 3125B, APHA 3120B
	34) Silver	APHA 3125B, APHA 3120B
	35) Sodium	APHA 3125B, APHA 3120B
	36) Strontium	APHA 3125B, APHA 3120B
	37) Terbium	APHA 3125B
	38) Thallium	APHA 3125B, APHA 3120B
	39) Thorium	APHA 3125B
	40) Tin	APHA 3125B
	41) Titanium	APHA 3125B
	42) Uranium	APHA 3125B
	43) Vanadium	APHA 3125B, APHA 3120B
	44) Zinc	APHA 3125B, APHA 3120B

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VI. Swimming Pool Water	1) Appearance 2) Odour 3) Chlorine, residual and free 4) Colour 5) Copper 6) pH 7) Sampling of water 8) Turbidity 9) Faecal coliform count 10) Standard plate count  11) Total coliform count 12) <i>Escherichia coli</i>	APHA 2110 In-house Method WE 001 (09) Lovibond Method APHA 2120B APHA 3111B, APHA 3120B APHA 4500-H <sup>+</sup> B BS 6068 Part 6, Section 6.4 : 1998 APHA 2130B APHA 9222D / APHA 9221E APHA 9215C/D BS EN ISO 6222 : 1999 APHA 9221B / APHA 9222B APHA 9221F
<b>B. TOXICITY TESTS OF DREDGED SOIL/SLUDGE FOR DISPOSAL</b>		
I. Determination of Elements	1) Arsenic 2) Barium 3) Cobalt 4) Copper 5) Cadmium 6) Chromium 7) Lead 8) Mercury 9) Molybdenum 10) Nickel 11) Zinc 12) Selenium	) <u>Digestion by</u> ) • USEPA 3050B-1996 ) • USEPA 3051A- 2007 ) (Microwave assisted acid ) digestion) ) <u>Analysis by</u> ) • USEPA 6020A-2007-ICP/MS ) • USEPA 7000B-2007-AAS ) • USEPA's office of solid waste ) SW-846 ) • USEPA 6010C-2007- ICP/AES )

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II. Water, Soil and Sludge	1) Cyanide-free / Cyanide complex / Thiocyanates (total)  2) Total petroleum hydrocarbon & Mineral oil  3) Volatile organic compounds (VOCs)	USEPA 9213-1996  USEPA 8015C-2007  USEPA 8260C- 2006 (Refer to Appendix I for listing of specific VOCs)
C. LEACHATE TESTS OF INDUSTRIAL WASTE FOR LAND FILLED DISPOSAL	1) Arsenic 2) Barium 3) Cadmium 4) Chromium 5) Copper 6) Cyanide (total) 7) Fluoride 8) Iron 9) Lead 10) Manganese 11) Mercury 12) Nickel 13) Phenolic compounds (as phenol) 14) Selenium 15) Silver 16) Zinc	) <u>Extraction by</u> ) • USEPA 1310B-2004 ) • USEPA 1311-1992 ) (exclude ZHE-Zero ) Headspace Extraction) ) <u>Analysis by</u> ) • USEPA's office of solid waste ) SW-846 ) • USEPA 6010C-2007- ICP/AES ) (except for Cyanide (total), ) Fluoride and Phenolic ) compounds (as phenol)) ) ) ) ) )

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<b>D. INDUSTRIAL HYGIENE (AIR POLLUTANTS IN WORKPLACE)</b>	1. Acetone	NIOSH 1300-1994
	2. Ammonia	NIOSH 6016-1996
	3. Arsenic & compounds as As	NIOSH 7900-1994, NIOSH 7300-2003
	4. Butyl acetate	NIOSH 1450-2003
	5. Benzene, Toluene, Ethyl benzene & Xylene (BTEX)	NIOSH 1501-2003
	6. Cadmium	NIOSH 7048-1994, NIOSH 7300-2003
	7. Chromium & compounds as Cr	NIOSH 7024-1994, NIOSH 7300-2003
	8. Chromium (Hexavalent)	NIOSH 7600-1994, NIOSH 7300-2003
	9. Copper (dust & fume)	NIOSH 7029-1994, NIOSH 7300-2003
	10. Formaldehyde	NIOSH 3500-1994
	11. Hydrogen bromide	NIOSH 7903-1994
	12. Hydrogen chloride	NIOSH 7903-1994
	13. Hydrogen cyanide	NIOSH 7904-1994
	14. Hydrogen fluoride	NIOSH 7903-1994
	15. Isopropyl alcohol	NIOSH 1400-1994
	16. Lead	NIOSH 7082 & 7105-1994, NIOSH 7300-2003
	17. Methylene chloride	NIOSH 1005-1998
	18. Methyl ethyl ketone	NIOSH 2500-1996
	19. Nickel	NIOSH 7300 (modified to AAS) – 1994 NIOSH 7300-2003
	20. Nitric acid	NIOSH 7903-1994
	21. Nuisance dust, Particulate	NIOSH 0500-1994
	22. Ozone	NIOSH (P & CAM 154)-1976

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	23. Phosphoric acid	NIOSH 7903-1994
	24. Respirable dust	NIOSH 0600-1998
	25. Selenium	NIOSH 7300 (modified to AAS) -1994, NIOSH 7300-2003
	26. Styrene	NIOSH 1501-2003
	27. Sulphuric acid	NIOSH 7903-1994
	28. Trichloroethylene	NIOSH 1022-1994
	29. Zinc & compound	NIOSH 7030-1994, NIOSH 7300-2003
	30. Aluminium	) NIOSH 7300-2003
	31. Antimony	)
	32. Barium	)
	33. Beryllium	)
	34. Calcium	)
	35. Cobalt	)
	36. Iron	)
	37. Lithium	)
	38. Magnesium	)
	39. Manganese	)
	40. Molybdenum	)
	41. Potassium	)
	42. Phosphorus	)
	43. Silver	)
	44. Strontium	)
	45. Tin	)
	46. Thallium	)
	47. Titanium	)
	48. Vanadium	)
	49. Tetrachloroethylene (also known as Perchloroethylene)	NIOSH 1003-2003
	50. MIBK (Methyl isobutyl ketone)	NIOSH 1300-1994

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<b>E. SOURCE EMISSION</b>	1. Stack sampling and velocity traverses 2. Stack velocity and volumetric flow rate 3. Stack gas composition, oxygen, carbon monoxide, carbon dioxide. Dry gas molecular weight 4. Stack gas moisture content 5. Particulate emissions 6. Determination of particulate emissions from stationary sources (In-stack filtration method)	USEPA Method 1  USEPA Method 2  USEPA Method 3  USEPA Method 4 USEPA Method 5 USEPA Method 17

## Approved Signatories

- 1) Mr Chua Boon Chun - For all accredited tests except Section E.
- 2) Mr Phang Ken Aun - For all water microbiological tests.
- 3) Mr Yong Tze Sin - For all accredited tests except water microbiological tests and Section E.
- 4) Mr Jonathan Goh - For all accredited tests except Section D and Section E.
- 5) Mr Chang Hee Kuan ) For all accredited tests except water microbiological tests.
- 6) Mr Sim Kok Hai ) For all water chemistry tests.
- 7) Mr Alan Tan )
- 8) Mr Charles Chin - For all accredited tests except Section D and water microbiological tests.
- 9) Mr Liew Kok Yen - For Section E.

## Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results. The **management system requirements** in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 **Quality Management Systems — Requirements** and are aligned with its pertinent requirements.



# Schedule

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## Appendix I

Test Method : USEPA 8260C - 2006

Listing of Specific Volatile Organic Compounds (VOCs)	Water MDL(µg/L)	Soil MDL(mg/kg)
1. Benzene	2	0.08
2. Bromobenzene	5	0.12
3. Bromochloromethane	10	0.08
4. Bromodichloromethane	6	0.10
5. Bromoform	49	0.44
6. n-Butyl benzene	0.4	0.02
7. sec-Butylbenzene	0.5	0.01
8. tert-Butyl benzene	1	0.04
9. Carbon tetrachloride	5	0.07
10. Chlorobenzene	6	0.18
11. Chloroethane	8	0.08
12. Chloroform	4	0.07
13. 2-Chlorotoluene	0.4	0.02
14. 4-Chlorotoluene	2	0.08
15. Chlorodibromomethane	12	0.20
16. 1,2-Dibromo-3-chloropropane	-	-
17. 1,2-Dibromoethane	17	0.33
18. Dibromomethane	17	0.15
19. 1,2-Dichlorobenzene	2	0.09
20. 1,3-Dichlorobenzene	1	0.04
21. 1,4-Dichlorobenzene	1	0.04
22. Dichlorodifluoromethane	1	0.04
23. 1,1-Dichloroethane	7	0.09
24. 1,2-Dichloroethane	11	0.14



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Listing of Specific Volatile Organic Compounds (VOCs)	Water MDL( $\mu\text{g/L}$ )	Soil MDL( $\text{mg/kg}$ )
25. 1,1-Dichloroethene	2	0.05
26. cis-1.2-Dichloroethene	7	0.10
27. trans-1.2-Dichloroethene	4	0.07
28. 1.2-Dichloropropane	6	0.11
29. 1.3-Dichloropropane	15	0.28
30. 2.2-Dichloropropane	4	0.08
31. 1.1-Dichloropropene	4	0.13
32. cis-1.3-Dichloropropene	11	0.17
33. trans-1.3-Dichloropropene	4	0.11
34. Ethylbenzene	2	0.05
35. Hexachloro-1, 3-butadiene	2	0.09
36. Isopropyl benzene	1	0.03
37. p-Isopropyltoluene	0.3	0.02
38. Methyl bromide	4	0.06
39. Methyl chloride	2	0.07
40. Methylene chloride	7	0.09
41. Naphthalene	5	0.14
42. n-Propylbenzene	0.4	0.02
43. Styrene	4	0.08
44. 1.1.1.2-Tetrachloroethane	11	0.22
45. 1.1.2.2-Tetrachloroethane	-	-
46. Tetrachloroethene	3	0.15
47. Toluene	2	0.05
48. 1.2.3-Trichlorobenzene	5	0.20



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Test Method : USEPA 8260C - 2006

Listing of Specific Volatile Organic Compounds (VOCs)	Water MDL( $\mu\text{g/L}$ )	Soil MDL(mg/kg)
49. 1,2,4-Trichlorobenzene	3	0.08
50. 1,1,1-Trichloroethane	3	0.13
51. 1,1,2-Trichloroethane	12	0.18
52. Trichloroethene	4	0.08
53. Trichlorofluoromethane	5	0.10
54. 1,2,3-Trichloropropane	32	0.28
55. 1,2,4-Trimethylbenzene	1	0.02
56. 1,3,5-Trimethylbenzene	1	0.03
57. o-Xylene	2	0.07
58. m-Xylene	3	0.12
59. p-Xylene	3	0.12

