APPENDIX 6

CHEMICAL AND ASBESTOS ANALYTICAL RESULTS

Analytical Report

No 1181

Client: **SR Gent plc(In administrative receivership)**

Contract: **FWS-11927**

SR GENT, DODWORTH ROAD, BARNSLEY

c/o PricewaterhouseCoopers
Benson House
33 Wellington Street
Leeds
LS1 4JP

Analytical & Environmental Services Ltd
Northumberland Dock Road
Wallsend
Tyne & Wear
NE28 0QD

Tel. 0191 2968500 Fax. 0191 2968535

					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	17.3	Stones	17	10.1	1300	<0.10	130
3121615	MB 1/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	10.8	Stones	21	6.7	1100		220
3121616	MB 1/4	CLAY	27/2/2006	28/2/2006	27/3/2006	0.0	Zero	21	7.3	410	0.11	53
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	33.0	Rubble	16	9.5	2600	0.24	130
3121618	MB 2/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	9.3	Brick/Stone	19	8.5	720		480
3121619	MB 2/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	0.0	Zero	16	7.4	200		180
3121620	MB 2/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	25.5	Shale	13	8.5	140		20
3121621	MB 3/1	TOPSOIL	27/2/2006	28/2/2006	27/3/2006	19.5	Stones	19	7.9	1100		35
3121622	MB 3/3	ASHY SAND FILL	27/2/2006	28/2/2006	27/3/2006	30.5	Stones	12	8.3	1100		47

Authorised by: Paul Burton - Analytical Manager

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	3600	15	0.30	700	43
3121615	MB 1/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	14	0.20	33	49
3121616	MB 1/4	CLAY	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	12	<0.20	33	21
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	<1.0	<0.40	33000	19	0.60	78	59
3121618	MB 2/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	1100	18	<0.20	27	37
3121619	MB 2/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	7.8	<0.20	32	20
3121620	MB 2/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	3.2	<0.20	25	44
3121621	MB 3/1	TOPSOIL	27/2/2006	28/2/2006	27/3/2006	1.1	0.50	880	31	0.50	32	75
3121622	MB 3/3	ASHY SAND FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	23	0.20	23	55

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	210	0.14	24	120	<1.0	
3121615	MB 1/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	77	0.090	36	60		
3121616	MB 1/4	CLAY	27/2/2006	28/2/2006	27/3/2006	19	<0.060	20	49		
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	1100	0.060	17	310		2960
3121618	MB 2/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	110	0.16	23	100		
3121619	MB 2/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	21	<0.060	30	63		
3121620	MB 2/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	44	<0.060	40	110		
3121621	MB 3/1	TOPSOIL	27/2/2006	28/2/2006	27/3/2006	190	0.32	27	160		
3121622	MB 3/3	ASHY SAND FILL	27/2/2006	28/2/2006	27/3/2006	85	0.93	29	76		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121623	MB 3/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	10.8	Stones	8.3	9.3	1600	0.23	35
3121624	MB 4/1	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	20.5	Stones	9.6	8.3	1300		250
3121625	MB 4/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	19.3	Shale	11	8.3	280		100
3121626	MB 5/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	44.9	Stones	7.2	9.6	2800	0.88	510
3121627	MB 5/2	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	11.8	Shale	12	8.7	260		370
3121628	MB 5/3	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	11.8	Shale	11	8.0	230		37
3121629	MB 6/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	27/3/2006	17.9	Brick	9.4	9.4	1400	0.19	230
3121630	MB 7/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	0.0	Zero	3.7	9.0	<100		<10
3121631	MB 8/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	7.7	Stones	18	7.9	1200		80

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121623	MB 3/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	13	<0.20	19	24
3121624	MB 4/1	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	8.7	<0.20	27	30
3121625	MB 4/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	3.9	0.20	19	47
3121626	MB 5/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	7.6	0.40	13	17
3121627	MB 5/2	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	4.3	<0.20	19	28
3121628	MB 5/3	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	3.2	0.30	12	52
3121629	MB 6/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	1600	9.5	0.30	47	41
3121630	MB 7/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	1.8	<0.20	22	26
3121631	MB 8/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	960	1.2	<0.20	21	33

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121623	MB 3/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	60	0.070	16	72		
3121624	MB 4/1	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	29	0.060	44	87		
3121625	MB 4/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	35	0.060	50	110		
3121626	MB 5/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	26	<0.060	7.0	46		
3121627	MB 5/2	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	21	<0.060	31	78		
3121628	MB 5/3	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	31	<0.060	47	100		1110
3121629	MB 6/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	27/3/2006	130	0.12	15	54		
3121630	MB 7/2	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	20	<0.060	33	86		<100
3121631	MB 8/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	64	0.21	18	82		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	0.0	Zero	7.9	8.6	150		14
3121633	MB 8/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	52.6	Stones	7.5	8.6	920		19
3121634	MB 9/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	16.4	Brick/Stones	15	8.7	960		42
3121635	MB 9/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	9.7	Stones	13	9.2	820		36
3121636	MB 9/4	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	23.4	Stones	11	8.8	810		33
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	2.7	Stones	18	8.1	430		33
3121638	MB 10/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	45.3	Stones	6.6	7.3	330		140
3121639	MB 10/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	1.7	Stones	19	9.6	230		97
3121641	MB 10/3	CLAY	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	21	6.9	610	0.15	70

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	1.4	<0.20	10	32
3121633	MB 8/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	560	9.1	0.70	28	9.0
3121634	MB 9/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	1.0	<0.40	2200	12	<0.20	22	39
3121635	MB 9/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	1600	12	0.30	27	34
3121636	MB 9/4	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	1800	11	<0.20	65	37
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<1.0	<0.40	3000	5.7	0.20	26	37
3121638	MB 10/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	<1.0	<0.40	<430	8.3	<0.20	29	25
3121639	MB 10/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	4.1	0.40	16	3.0
3121641	MB 10/3	CLAY	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	3.6	<0.20	27	40

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	22	<0.060	13	40		
3121633	MB 8/5	MUDSTONE	27/2/2006	28/2/2006	27/3/2006	44	<0.060	14	67		<100
3121634	MB 9/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	82	0.16	21	95		
3121635	MB 9/3	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	110	0.15	31	99		
3121636	MB 9/4	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	100	0.15	59	110		
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	38	<0.060	48	100		
3121638	MB 10/1	DOLOMITE FILL	27/2/2006	28/2/2006	27/3/2006	35	0.060	26	88		
3121639	MB 10/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	12	<0.060	9.0	51		
3121641	MB 10/3	CLAY	27/2/2006	28/2/2006	28/3/2006	23	<0.060	65	130		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121642	MB 10/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	29	6.6	270		25
3121643	MB 11/2	SANDSTONE & MUDSTONE	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	8.0	7.1	190		22
3121644	MB 12/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	5.2	Stones	15	6.8	200		96
3121645	MB 12/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	15.2	Shale	14	7.9	140		69
3121646	MB 12/4	CLAY	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	23	7.8	160		56
3121647	MB 13/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	9.7	Stones	13	8.5	300		28
3121648	MB 13/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	12.1	Stones	16	8.2	580		35
3121649	MB 14/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	48.5	Stones	7.8	9.0	1500	0.35	80
3121650	MB 14/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	9.9	Shale	17	9.3	350		16

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Contract: **FWS-11927**

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Leeds
LS1 4JP

Analytical & Environmental Services Ltd
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Tyne & Wear
NE28 0QD

Tel. 0191 2968500 Fax. 0191 2968535

					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121642	MB 10/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	4.4	0.30	23	63
3121643	MB 11/2	SANDSTONE & MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	2.4	<0.20	20	17
3121644	MB 12/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	4.3	<0.20	22	33
3121645	MB 12/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	3.6	<0.20	23	38
3121646	MB 12/4	CLAY	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	4.2	<0.20	31	14
3121647	MB 13/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	4.6	<0.20	27	32
3121648	MB 13/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	0.40	1100	11	<0.20	27	36
3121649	MB 14/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	10	<0.20	14	110
3121650	MB 14/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	5.2	0.20	19	37

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Tel. 0191 2968500 Fax. 0191 2968535

					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121642	MB 10/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	48	<0.060	100	100		1790
3121643	MB 11/2	SANDSTONE & MUDSTONE	27/2/2006	28/2/2006	28/3/2006	16	<0.060	36	87		
3121644	MB 12/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	28	<0.060	43	86		
3121645	MB 12/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	29	<0.060	41	87		
3121646	MB 12/4	CLAY	27/2/2006	28/2/2006	28/3/2006	16	<0.060	23	66		
3121647	MB 13/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	41	0.10	40	91		
3121648	MB 13/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	100	0.090	34	90		
3121649	MB 14/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	49	0.24	27	81		
3121650	MB 14/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	36	<0.060	43	120		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121651	MB 15/1	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	4.2	Shale	12	8.5	410		37
3121652	MB 15/2	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	11	8.8	140		46
3121653	MB 16/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	10.4	Shale	12	8.3	200		14
3121654	MB 16/3	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	10.6	Shale	7.0	8.6	130		<10
3121655	MB 17/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	18.5	Brick/Stone	12	9.2	3300	1.1	99
3121656	MB 17/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	6.2	Stones	19	7.9	1700		95
3121657	MB 17/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	19.3	Stones	14	8.3	150		27
3121658	MB 18/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	33.7	Stone/Brick	15	9.3	2600	0.55	83
3121659	MB 18/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	5.2	Stones	14	8.1	2100		120

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121651	MB 15/1	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	3.9	<0.20	20	28
3121652	MB 15/2	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	0.40	<430	0.40	<0.20	16	30
3121653	MB 16/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	1.5	<0.20	18	32
3121654	MB 16/3	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	3.2	<0.20	16	22
3121655	MB 17/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	12	<0.20	42	30
3121656	MB 17/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	16	0.30	20	36
3121657	MB 17/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	3.2	<0.20	27	28
3121658	MB 18/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	560	15	<0.20	42	21
3121659	MB 18/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	560	20	<0.20	21	48

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121651	MB 15/1	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	22	<0.060	42	95		
3121652	MB 15/2	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	21	<0.060	25	28		
3121653	MB 16/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	29	<0.060	38	120		
3121654	MB 16/3	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	17	<0.060	25	43		
3121655	MB 17/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	44	0.10	26	60		
3121656	MB 17/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	130	0.15	30	210		
3121657	MB 17/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	21	0.36	45	100		
3121658	MB 18/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	57	0.090	31	62		
3121659	MB 18/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	87	0.21	40	150		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121660	MB 18/4	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	25.3	Stones	8.6	7.5	500		23
3121661	MB 19/2	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	11.3	Stones	12	10.0	2600	0.46	66
3121662	MB 19/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	3.5	Stones	36	8.8	2200	0.46	72
3121663	MB 19/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	27.5	Shale	14	8.1	420	<0.10	33
3121664	MB 20/1	DOLOMITE FILL	27/2/2006	28/2/2006	28/3/2006	27.7	Stones	32	9.4	960		140
3121665	MB 20/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	18	8.2	1100		79
3121666	MB 20/5	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	20	7.5	290		59
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	7.1	Stones	21	7.8	470		68
3121668	MB 20/7	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	26.6	Stones	10	8.2	<100		26

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121660	MB 18/4	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	7.4	<0.20	13	19
3121661	MB 19/2	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	1700	15	<0.20	52	36
3121662	MB 19/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	1000	17	<0.20	55	42
3121663	MB 19/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	6.0	<0.20	12	55
3121664	MB 20/1	DOLOMITE FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	1.4	<0.20	4.0	12
3121665	MB 20/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	6.5	<0.20	22	24
3121666	MB 20/5	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	1700	17	<0.20	19	37
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	640	21	<0.20	15	41
3121668	MB 20/7	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	2.3	<0.20	13	34

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121660	MB 18/4	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	14	<0.060	32	40		
3121661	MB 19/2	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	53	0.070	33	170		
3121662	MB 19/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	34	<0.060	91	140		
3121663	MB 19/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	29	<0.060	51	100		709
3121664	MB 20/1	DOLOMITE FILL	27/2/2006	28/2/2006	28/3/2006	7.3	<0.060	11	8.0		
3121665	MB 20/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	27	<0.060	31	71		
3121666	MB 20/5	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	29	<0.060	35	100		
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	44	0.10	38	140		
3121668	MB 20/7	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	23	<0.060	49	140		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121669	MB 21/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	28/3/2006	51.0	Shale	9.5	9.7	1600	0.44	48
3121670	MB 21/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	2.0	Stone/Brick	17	7.7	1600	0.70	34
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	12.7	Shale	12	8.2	150		<10
3121672	MB 21/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	0.0	Zero	14	8.2	190		<10
3121673	MB 22/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	6.8	Shale	14	8.6	500		39
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	42.1	Stones	9.0	10.6	2300	0.22	37
3121675	MB 22/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	12.1	Stones	15	8.2	320		66
3121676	MB 23/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	21.5	Shale	14	8.2	270		49
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	26.5	Shale	13	8.3	340	0.17	22

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Analytical Report

No. 1181

Client: **SR Gent plc(In administrative receivership)**

Contract: **FWS-11927**

SR GENT, DODWORTH ROAD, BARNSLEY

c/o PricewaterhouseCoopers
Benson House
33 Wellington Street
Leeds
LS1 4JP

Analytical & Environmental Services Ltd
Northumberland Dock Road
Wallsend
Tyne & Wear
NE28 0QD
Tel. 0191 2968500 Fax. 0191 2968535

					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121669	MB 21/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	560	18	<0.20	29	50
3121670	MB 21/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	15	<0.20	20	19
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<1.0	<0.40	2700	4.2	<0.20	11	53
3121672	MB 21/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	1600	4.4	<0.20	9.0	52
3121673	MB 22/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	480	3.6	<0.20	15	32
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	3.7	<0.40	24000	4.6	0.20	200	23
3121675	MB 22/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	640	5.9	<0.20	21	29
3121676	MB 23/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	2.7	<0.20	12	39
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	800	4.5	<0.20	16	31

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121669	MB 21/1	BRICK RUBBLE FINES	27/2/2006	28/2/2006	28/3/2006	52	0.11	27	50		
3121670	MB 21/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	64	0.060	22	100		
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	36	<0.060	50	100		
3121672	MB 21/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	33	<0.060	51	110		
3121673	MB 22/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	41	<0.060	32	70		
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	34	0.12	24	69	<1.0	
3121675	MB 22/4	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	31	<0.060	40	120		
3121676	MB 23/4	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	45	<0.060	49	110		
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	32	<0.060	41	100		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3121678	MB 24/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	10.5	Stones	17	9.0	1200		37
3121679	MB 24/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	33.7	Stones	15	7.4	320		19
3121680	MB 24/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	27.3	Stones	4.0	8.0	<100		<10
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	16.6	Shale	6.3	10.1	720	0.13	26
3121682	MB 21/3	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006	3.2	Shale	13				
3121683	MB 22/5	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006	12.1	Stone	14				
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	36.0	Stones	9.5	10.8	6300	1.6	130
3122109	BH1 1.0 - 1.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	22.0	Stones	9.6	8.8	1300		68
3122110	BH1 5.0 - 5.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	4.1	Stones	26	9.3	430		43

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121678	MB 24/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	0.50	<430	9.8	0.30	20	23
3121679	MB 24/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	12	<0.20	14	24
3121680	MB 24/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<0.40	<430	2.9	<0.20	21	26
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	1.2	<0.40	5500	4.2	<0.20	71	21
3121682	MB 21/3	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006							
3121683	MB 22/5	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006							
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	2.4	<0.40	31000	6.9	0.30	49	21
3122109	BH1 1.0 - 1.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	<430	6.9	<0.20	24	26
3122110	BH1 5.0 - 5.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	<430	6.3	<0.20	20	23

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3121678	MB 24/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	64	0.15	23	280		
3121679	MB 24/2	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	39	0.10	24	110		
3121680	MB 24/3	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	15	<0.060	44	150		
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	17	<0.060	40	82		
3121682	MB 21/3	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006						1820
3121683	MB 22/5	CARBONACEOUS MUDSTONE	27/2/2006	28/2/2006	28/3/2006						814
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	42	0.10	18	63		
3122109	BH1 1.0 - 1.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	35	0.080	27	61		
3122110	BH1 5.0 - 5.45	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	120	0.19	22	50		

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					Method	H113	H113	IN HOUSE	H058	H119	H182	H120
						percent removed	removed constituents	Moisture at 30 deg C	pH	Sulphate (Total)	Sulphate (Extractable)	Chloride
									$		$	
						*	*	*				
			Date	Date	Date				D	D	D	D
Sample			Received	Started	Completed	%		%	.	mg/kg	g/l	mg/kg
3122112	BH1 6.5 - 6.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	0.0	Zero	19	8.4	110		39
3122114	BH2 1.0 - 2.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	80.8	Brick/Stones	24	8.0	170		29
3122115	BH3 0.6 - 1.2	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	3.8	Brick/Rubble	12	9.2	1400		200
3122116	BH3 2.5 - 2.95	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	20.2	Slate	16	9.3	1800		74
3122117	BH4 0.6 - 1.2	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	13.0	Stones	17	8.6	830		250
3122118	BH5 0.5 - 1.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	11.2	Stones	20	7.7	290		110
3122119	BH6 1.5 - 1.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	8.1	Stones	21	8.1	320		870

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					Method	H128	H121	H124	H198	H198	H198	H198
						Phenolics (as phenol)	Cyanide (Total)	Toluene Extractable Matter	Arsenic	Cadmium	Chromium	Copper
									$	$	$	$
						*						
			Date	Date	Date	D	D	D	D	D	D	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3122112	BH1 6.5 - 6.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	1.2	<430	5.2	<0.20	29	37
3122114	BH2 1.0 - 2.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	<430	5.6	<0.20	39	26
3122115	BH3 0.6 - 1.2	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	2200	9.4	<0.20	33	32
3122116	BH3 2.5 - 2.95	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	2100	10	<0.20	34	36
3122117	BH4 0.6 - 1.2	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	560	4.6	<0.20	41	58
3122118	BH5 0.5 - 1.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	480	4.6	<0.20	30	26
3122119	BH6 1.5 - 1.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	<1.0	<0.40	480	7.2	<0.20	31	30

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aes

Analytical Report

MCERTS

UKAS TESTING

No. 1181

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					Method	H198	H186	H198	H198	H125	H148
						Lead	Mercury	Nickel	Zinc	Chromium VI	Calorific Value
						$	$	$	$		
											*
			Date	Date	Date	D	D	D	D	W	D
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	kJ/kg
3122112	BH1 6.5 - 6.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	46	<0.060	45	120		
3122114	BH2 1.0 - 2.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	22	<0.060	25	89		
3122115	BH3 0.6 - 1.2	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	80	0.12	22	93		
3122116	BH3 2.5 - 2.95	GRAVEL FILL	1/3/2006	3/3/2006	28/3/2006	110	0.19	28	140		
3122117	BH4 0.6 - 1.2	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	58	<0.060	49	120		
3122118	BH5 0.5 - 1.0	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	31	<0.060	22	68		
3122119	BH6 1.5 - 1.95	CLAY FILL	1/3/2006	3/3/2006	28/3/2006	56	<0.060	34	98		

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					Method	O081
						Total Petroleum Hydrocarbons
						$
			Date	Date	Date	W
Sample			Received	Started	Completed	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	300
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	32000
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	9100
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	4100
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	400
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	9600
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	7400
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	10000
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<70

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					Method	O081
						Total Petroleum Hydrocarbons
						$
			Date	Date	Date	W
Sample			Received	Started	Completed	mg/kg
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	7500

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					Method	O85	O85	O85	O85	O85	O85
						Naphthalene	Benzene	Ethylbenzene	Meta + Para Xylene	Ortho-Xylene	Toluene
						$	$	$	$	$	$
			Date	Date	Date						
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<20	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	1400	<10	<10	220	<10	<10
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<20	<10	<10	<10	<10	<10
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<20	<10	18	41	<10	<10
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	260000	120	35	110	69	76
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	750	<10	<10	<10	<10	<10

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					Method	O85	O85	O85	O85	O85	O85	O85
						1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene
								$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<10	<10	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10

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					Method	O85	O85	O85	O85	O85	O85	O85
						1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene
						$	$	$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<10	<10	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<10	4200	<10	<10	<10	<10	560
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<10	480	<10	<10	<10	<10	240
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10

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					Method	O85	O85	O85	O85	O85	O85	O85
						2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	Bromobenzene	Bromochloromethane	Chlorobenzene
						$	$	$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<10	<10	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	450	<10	<10	<10
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	35	<10	<10	<10
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10

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					Method	O85	O85	O85	O85	O85	O85	O85
						Chloroform	cis-1,2-Dichloroethene	Dibromomethane	Hexachlorobutadiene	N-Butylbenzene	N-Propylbenzene	Sec-Butylbenzene
						$	$	$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<10	<10	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	590	960
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	93
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	140	36	190
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	89	20	<10
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	38	<10	66

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					Method	O85	O85	O85	O85	O85	O85	O85
						Styrene	Tert-Butylbenzene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride
						$	$	$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<10	<10	<10	<10	<10	<10	<10
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<10	<10	<10	<10	<10	<10	<10
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<10	<10	<10	<10	<10	<10	<10

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					Method	O85	O85	O85	O85	O85	O85	O85
						1,2-Dibromo-3-Chloropropane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,3,5-Trichlorobenzene	1,3-Dichloropropane
							$	$	$	$	$	$
			Date	Date	Date							
Sample			Received	Started	Completed	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<20	<20	<20	<20	<20	<20	<20
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<20	<20	<20	<20	<20	<20	<20
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<20	<20	<20	<20	<20	<20	<20
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<20	<20	<20	<20	<20	<20	<20
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<20	<20	<20	<20	<20	<20	<20
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<20	<20	<20	<20	<20	<20	<20

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					Method	O85	O85
						Chloromethane	Isopropylbenzene
						$	$
			Date	Date	Date		
Sample			Received	Started	Completed	ug/kg	ug/kg
3121632	MB 8/4	GRAVEL FILL	27/2/2006	28/2/2006	27/3/2006	<20	<20
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	<20	390
3121667	MB 20/6	CLAY FILL	27/2/2006	28/2/2006	28/3/2006	<20	<20
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<20	36
3121674	MB 22/3	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<20	22
3121677	MB 23/5	MUDSTONE	27/2/2006	28/2/2006	28/3/2006	<20	<20

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					Method	O027	O027	O027	O027	O027	O027
						Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
									$		
			Date	Date	Date	W	W	W	W	W	W
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	1.5	<1.0	2.5	5.9	5.1	6.2
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	1.4	<1.0	2.1	3.7	2.2	2.8
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	49	2.0	74	81	67	78

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					Method	O027	O027	O027	O027	O027	O027
						Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(ah)anthracene	Fluoranthene	Fluorene
						$		$	$	$	
			Date	Date	Date	W	W	W	W	W	W
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	3.2	2.7	5.2	<1.0	12	1.2
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	<1.0	<1.0	1.5	<1.0	1.6	<1.0
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	1.4	1.3	2.9	<1.0	9.7	2.5
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<1.0	<1.0	<1.0	<1.0	<1.0	3.0
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	32	31	64	8.8	210	52

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					Method	O027	O027	O027	O027	O027
						Indenopyrene	Naphthalene	PAH TOTAL	Phenanthrene	Pyrene
						$	$		$	$
			Date	Date	Date	W	W	W	W	W
Sample			Received	Started	Completed	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3121614	MB 1/2	CLAY FILL	27/2/2006	28/2/2006	27/3/2006	2.5	1.3	68.6	8.3	11
3121617	MB 2/1	ASH FILL	27/2/2006	28/2/2006	29/3/2006	<1.0	<1.0	9.0	2.3	2.5
3121637	MB 9/5	CLAY FILL	27/2/2006	28/2/2006	30/3/2006	1.0	4.1	52.2	8.3	8.8
3121671	MB 21/4	MUDSTONE	27/2/2006	28/2/2006	30/3/2006	<1.0	3.7	11.4	3.6	1.1
3121681	MB 25/1	GRAVEL FILL	27/2/2006	28/2/2006	28/3/2006	<1.0	<1.0	<1	<1.0	<1.0
3122102	BH1 0.3 - 0.8	GRAVEL FILL	1/3/2006	3/3/2006	29/3/2006	28	9.4	1196.2	240	170

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					Method	H031	H090	H128	H127	H101	H106
						pH	Chloride	Phenolics (as phenol)	Cyanide (Total)	Arsenic	Cadmium
								D			
Sample			Date Received	Date Started	Date Completed		mg/l	mg/l	mg/l	mg/l	mg/l
3127688	MB 2/1	LEACHATE 3121617	22/3/2006	22/3/2006	5/4/2006	9.2	7.5	<0.020	<0.020	0.0029	<0.0020
3127689	MB 3/3	LEACHATE 3121622	22/3/2006	22/3/2006	5/4/2006	8.1	4.0	<0.020	<0.020	0.0031	<0.0020
3127690	MB 8/4	LEACHATE 3121632	22/3/2006	22/3/2006	5/4/2006	7.4	3.4	<0.020	<0.020	<0.00030	<0.0020
3127691	MB 22/3	LEACHATE 3121674	22/3/2006	22/3/2006	5/4/2006	10.5	3.0	0.11	<0.020	0.0028	<0.0020
3127692	BH1 0.3-0.8	LEACHATE 3122102	22/3/2006	22/3/2006	6/4/2006	10.2	11	0.080	<0.020	0.00090	<0.0020

Authorised by: Paul Burton - Analytical Manager

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All results expressed on a dry weight basis at 30C.

Results relate only to the items tested

Opinions and interpretations expressed herein are out side the scope of UKAS accreditation

aes

Analytical Report

UKAS TESTING
No. 1181

Client: **SR Gent plc(In administrative receivership)**

Contract: **FWS-11927**

SR GENT, DODWORTH ROAD, BARNSLEY

c/o PricewaterhouseCoopers
Benson House
33 Wellington Street
Leeds
LS1 4JP

Analytical & Environmental Services Ltd
Northumberland Dock Road
Wallsend
Tyne & Wear
NE28 0QD

Tel. 0191 2968500 Fax. 0191 2968535

					Method	H106	H106	H106	H108	H106	H106
						Chromium	Copper	Lead	Mercury	Nickel	Zinc
			Date	Date	Date						
Sample			Received	Started	Completed	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
3127688	MB 2/1	LEACHATE 3121617	22/3/2006	22/3/2006	5/4/2006	<0.0030	<0.0030	<0.013	<0.000080	<0.0050	<0.0040
3127689	MB 3/3	LEACHATE 3121622	22/3/2006	22/3/2006	5/4/2006	<0.0030	<0.0030	<0.013	<0.000080	<0.0050	<0.0040
3127690	MB 8/4	LEACHATE 3121632	22/3/2006	22/3/2006	5/4/2006	<0.0030	<0.0030	<0.013	<0.000080	0.012	0.0089
3127691	MB 22/3	LEACHATE 3121674	22/3/2006	22/3/2006	5/4/2006	<0.0030	<0.0030	<0.013	<0.000080	<0.0050	<0.0040
3127692	BH1 0.3-0.8	LEACHATE 3122102	22/3/2006	22/3/2006	6/4/2006	<0.0030	<0.0030	<0.013	<0.000080	<0.0050	<0.0040

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No. 1181

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NE28 0QD

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					Method	O082	H090
						Total Petroleum Hydrocarbons	Sulphate
			Date	Date	Date		
Sample			Received	Started	Completed	mg/l	mg/l
3127688	MB 2/1	LEACHATE 3121617	22/3/2006	22/3/2006	5/4/2006	3.4	59
3127689	MB 3/3	LEACHATE 3121622	22/3/2006	22/3/2006	5/4/2006	0.086	8.9
3127690	MB 8/4	LEACHATE 3121632	22/3/2006	22/3/2006	5/4/2006	1.3	120
3127691	MB 22/3	LEACHATE 3121674	22/3/2006	22/3/2006	5/4/2006	10	26
3127692	BH1 0.3-0.8	LEACHATE 3122102	22/3/2006	22/3/2006	6/4/2006	6.8	250

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Analytical Report

No. 1181

Client: **SR Gent plc(In administrative receivership)**

Contract: **FWS-11927**

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				Method	H031	H090	H128	H127	H101	H106	H106
					pH	Chloride	Phenolics (as phenol)	Cyanide (Total)	Arsenic	Cadmium	Chromium
		Date	Date	Date			D				
Sample		Received	Started	Completed		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
3121684	MB 9/W	27/2/2006	27/2/2006	20/3/2006	8.0	130	<0.020	0.14	0.00060	<0.0020	<0.0030
3123907	BH1	6/3/2006	6/3/2006	13/3/2006	7.7	140	<0.020	<0.020	0.0028	<0.0020	<0.0030
3123908	BH2	6/3/2006	6/3/2006	13/3/2006	7.4	39	<0.020	<0.020	0.00050	<0.0020	<0.0030
3123909	BH3	6/3/2006	6/3/2006	13/3/2006	7.6	46	<0.020	<0.020	0.0010	<0.0020	<0.0030
3123910	BH4	6/3/2006	6/3/2006	13/3/2006	10.2	250	0.040	<0.020	0.0051	<0.0020	<0.0030
3123911	BH6	6/3/2006	6/3/2006	20/3/2006	7.3	280	<0.020	<0.020	<0.00030	<0.0020	<0.0030
3123912	MB2	6/3/2006	6/3/2006	13/3/2006	7.7	120	<0.020	<0.020	0.00040	<0.0020	<0.0030
3123913	MB8	6/3/2006	6/3/2006	20/3/2006	7.3	180	<0.020	<0.020	0.00070	<0.0020	<0.0030

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Analytical Report

No. 1181

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Contract: **FWS-11927**

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NE28 0QD

Tel. 0191 2968500 Fax. 0191 2968535

				Method	H106	H106	H108	H106	H106	O082	H090
					Copper	Lead	Mercury	Nickel	Zinc	Total Petroleum Hydrocarbons	Sulphate
		Date	Date	Date							
Sample		Received	Started	Completed	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
3121684	MB 9/W	27/2/2006	27/2/2006	20/3/2006	<0.0030	<0.013	<0.000080	0.028	<0.0040	4200	5.5
3123907	BH1	6/3/2006	6/3/2006	13/3/2006	<0.0030	<0.013	<0.000080	<0.0050	<0.0040	0.17	24
3123908	BH2	6/3/2006	6/3/2006	13/3/2006	<0.0030	<0.013	<0.000080	0.0063	0.015	0.014	82
3123909	BH3	6/3/2006	6/3/2006	13/3/2006	<0.0030	<0.013	<0.000080	<0.0050	<0.0040	0.16	110
3123910	BH4	6/3/2006	6/3/2006	13/3/2006	0.044	<0.013	<0.000080	0.014	<0.0040	1.6	130
3123911	BH6	6/3/2006	6/3/2006	20/3/2006	<0.0030	<0.013	<0.000080	<0.0050	<0.0040	19	110
3123912	MB2	6/3/2006	6/3/2006	13/3/2006	<0.0030	<0.013	<0.000080	<0.0050	<0.0040	0.070	32
3123913	MB8	6/3/2006	6/3/2006	20/3/2006	<0.0030	<0.013	<0.000080	<0.0050	<0.0040	4900	70

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Analytical Report

No. 1181

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Contract: **FWS-11927**

SR GENT, DODWORTH ROAD, BARNSLEY

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Leeds
LS1 4JP

Analytical & Environmental Services Ltd
Northumberland Dock Road
Wallsend
Tyne & Wear
NE28 0QD

Tel. 0191 2968500 Fax. 0191 2968535

				Method	O034
					semi volatiles (quantitative) effluents
		Date	Date	Date	D
Sample		Received	Started	Completed	
3121684	MB 9/W	27/2/2006	27/2/2006	20/3/2006	SV5509
3123907	BH1	6/3/2006	6/3/2006	13/3/2006	
3123908	BH2	6/3/2006	6/3/2006	13/3/2006	
3123909	BH3	6/3/2006	6/3/2006	13/3/2006	
3123910	BH4	6/3/2006	6/3/2006	13/3/2006	
3123911	BH6	6/3/2006	6/3/2006	20/3/2006	SV5511
3123912	MB2	6/3/2006	6/3/2006	13/3/2006	
3123913	MB8	6/3/2006	6/3/2006	20/3/2006	SV5512

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1181

This analysis is based on AES Organics Laboratory method O-34 which is accredited under the **UKAS** accreditation scheme.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

ANALYSIS REPORT

NUMBER SV5521-3

Laboratory Address

AES Ltd
Northumberland Dock Road
Howdon
Wallsend
Tyne & Wear
NE28 0QD

Client Address:

Colin Flett
FWS Consultants
Merrington House
PO Box 11
Merrington Lane Trading Estate
Spennymoor
Co. Durham
DL16 7UU

Prepared by: Christine Pratt **Signed Date:** 16/03/06

Report Number	SV5520	SV5521	SV5522	SV5523
Sample Reference	EXT BLANK	MB 8/4	MB 9/5	MB 20/6
AES Laboratory Number	-	3121632	3121637	3121667
Sample Type	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg
2-Picoline	<3.0	<3.0	<3.0	<3.0
Aniline	<2.0	<2.0	<2.0	<2.0
Phenol	<2.0	<2.0	<2.0	<2.0
Bis(2-chloroethyl)ether	<2.0	<2.0	<2.0	<2.0
2-Chlorophenol	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	<2.0	<2.0	<2.0	<2.0
1,4-Dichlorobenzene	<2.0	<2.0	<2.0	<2.0
Benzyl Alcohol	<2.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene	<2.0	<2.0	<2.0	<2.0
2-Methylphenol	<2.0	<2.0	<2.0	<2.0
bis(2-Chloroisopropyl)ether	<2.0	<2.0	<2.0	<2.0
N-Nitrosodinpropylamine	<2.0	<2.0	<2.0	<2.0
4-Methylphenol	<2.0	<2.0	<2.0	<2.0
Hexachloroethane	<2.0	<2.0	<2.0	<2.0
Nitrobenzene	<2.0	<2.0	<2.0	<2.0
Acetophenone	<2.0	<2.0	<2.0	<2.0
Isophorone	<2.0	<2.0	<2.0	<2.0
2-Nitrophenol	<2.0	<2.0	<2.0	<2.0
2,4-Dimethyphenol	<4.0	<4.0	<4.0	<4.0
Bis(2-chloroethoxy)methane	<4.0	<4.0	<4.0	<4.0
Benzoic Acid	<20	<20	<20	<20
2,4-Dichlorophenol	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	<2.0
2,6-Dichlorophenol	<2.0	<2.0	<2.0	<2.0
4-Chloroaniline	<2.0	<2.0	<2.0	<2.0
Hexachlorobutadiene	<2.0	<2.0	<2.0	<2.0
N-Nitrosopiperidine	<2.0	<2.0	<2.0	<2.0
N-Nitroso-di-n-butylamine	<2.0	<2.0	<2.0	<2.0
4-Chloro-3-Methylphenol	<3.0	<3.0	<3.0	<3.0
2-Methylnaphthalene	<2.0	<2.0	14	1.5
Hexachlorocyclopentadiene	<3.0	<3.0	<3.0	<3.0
2,4,6-Trichlorophenol	<2.0	<2.0	<2.0	<2.0
2,4,5-Trichlorphenol	<2.0	<2.0	<2.0	<2.0
2-Chloronaphthalene	<2.0	<2.0	<2.0	<2.0
1,2,4,5-Tetrachlorobenzene	<2.0	<2.0	<2.0	<2.0
1-Chloronaphthalene	<2.0	<2.0	<2.0	<2.0
2-Nitroaniline	<2.0	<2.0	<2.0	<2.0
2,6-Dinitrotoluene	<2.0	<2.0	<2.0	<2.0
3-Nitroaniline	<2.0	<2.0	<2.0	<2.0
2,4-Dinitrophenol	<20	<20	<20	<20
Dibenzofuran	<2.0	<2.0	3.3	<2.0
Pentachlorobenzene	<2.0	<2.0	<2.0	<2.0
1-Naphtylamine	<2.0	<2.0	<2.0	<2.0
4-Nitrophenol	<2.0	<2.0	<2.0	<2.0
2,4-Dinitrotoluene	<2.0	<2.0	<2.0	<2.0
2-Naphthylamine	<2.0	<2.0	<2.0	<2.0
2,3,4,6-Tetrachlorophenol	<2.0	<2.0	<2.0	<2.0
Dimethylphthalate	<2.0	<2.0	<2.0	<2.0
Diethylphthalate	<2.0	<2.0	<2.0	<2.0
4-Chlorophenyl-phenylether	<2.0	<2.0	<2.0	<2.0

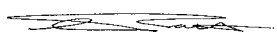
Report Number	SV5520	SV5521	SV5522	SV5523
Sample Reference	EXT BLANK	MB 8/4	MB 9/5	MB 20/6
AES Laboratory Number	-	3121632	3121637	3121667
Sample Type	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg
4-Nitroaniline	<5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	<3.0	<3.0	<3.0	<3.0
N-Nitrosodiphenylamine	<2.0	<2.0	<2.0	<2.0
1,2-Diphenylhydrazine	<2.0	<2.0	<2.0	<2.0
Diphenylamine	<2.0	<2.0	<2.0	<2.0
4-Bromophenyl-phenylether	<2.0	<2.0	<2.0	<2.0
Phenacetin	<2.0	<2.0	<2.0	<2.0
Hexachlorobenzene	<2.0	<2.0	<2.0	<2.0
4-Aminobiphenyl	<2.0	<2.0	<2.0	<2.0
Pentachlorophenol	<3.0	<3.0	<3.0	<3.0
Pentachloronitrobenzene	<3.0	<3.0	<3.0	<3.0
Pronamide	<2.0	<2.0	<2.0	<2.0
Di-n-Butylphthalate	<2.0	<2.0	<2.0	<2.0
p-Dimethylaminoazobenzene	<2.0	<2.0	<2.0	<2.0
Butylbenzylphthalate	<2.0	<2.0	<2.0	<2.0
3,3'-Dichlorobenzidine	<2.0	<2.0	<2.0	<2.0
bis(2-ethylhexyl)phthalate	<2.0	<2.0	<2.0	<2.0
7,12-Dimethylbenz(a)anthracene	<20	<20	<20	<20
Di-n-octylphthalate	<2.0	<2.0	<2.0	<2.0
3-Methylcholanthrene	<2.0	<2.0	<2.0	2.3
Dibenz(a,j)acridine	<2.0	<2.0	<2.0	<2.0
Naphthalene	<1.0	<1.0	7.5	1.1
Acenaphthylene	<1.0	<1.0	<1.0	<1.0
Acenaphthene	<1.0	<1.0	1.3	<1.0
Fluorene	<1.0	<1.0	4.5	<1.0
Phenanthrene	<1.0	<1.0	12	2.2
Anthracene	<1.0	<1.0	1.8	<1.0
Fluoranthene	<1.0	<1.0	4.2	2.0
Pyrene	<1.0	<1.0	4.8	1.8
Benzo(a)anthracene	<1.0	<1.0	<1.0	<1.0
Chrysene	<1.0	<1.0	<1.0	<1.0
Benzo(b)fluoranthene	<1.0	<1.0	1.1	2.6
Benzo(k)fluoranthene	<1.0	<1.0	<1.0	2.4
Benzo(a)pyrene	<1.0	<1.0	<1.0	2.6
Indeno(1,2,3-cd)pyrene	<1.0	<1.0	1.5	<1.0
Dibenzo(a,h)anthracene	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,I)perylene	<1.0	<1.0	1.4	<1.0

TENTATIVELY IDENTIFIED COMPOUNDS (ESTIMATED CONCENTRATION*)

Report Number	SV5520	SV5521	SV5522	SV5523
Sample Reference	EXT BLANK	MB 8/4	MB 9/5	MB 20/6
AES Laboratory Number	-	3121632	3121637	3121667
Sample Type	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg
Trimethylbenzene	-	-	11	-
Propenylbenzene	-	-	4.6	-
o-Isopropyltoluene	-	-	6.6	-
Methylindane	-	-	4	-
4-Ethyl-m-xylene	-	-	2	-
Tetrahydronaphthalene	-	-	5.2	-
Tetrahydromethylnaphthalene	-	-	15	-
Tetramethylpentadecane	-	-	11	-
Tetrahydrodimethylnaphthalene	-	-	6.3	-
1-Methylnaphthalene	-	-	21	-
Biphenyl	-	-	6.2	-
Dimethylnaphthalene	-	-	71	-
Diphenylmethane	-	-	6.6	-
Trimethylnaphthalene	-	-	82	-
Dimethylbiphenyl	-	-	12	-
Methyldibenzofuran	-	-	6.6	-
Methylfluorene	-	-	14	-
Methoxyfluorene	-	-	6.1	-
Methylanthracene	-	-	11	-
Tetradecane	-	-	7.8	-
Hexadecane	-	-	25	-
Octadecane	-	-	40	-
Unidentified Hydrocarbons	-	-	180	17
Unidentified Compounds	-	-	56	-

* Concentrations quoted in the tentatively identified compounds section are outside the scope of UKAS accreditation and are approximations only since they are calculated based on internal standard response and no account is taken of differences in response factors and extraction efficiency.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
Under the authority of P. A. Burton (Analytical Manager)

ANALYST Christine Pratt

SIGNATURE 

DATE 16/03/2006

UKAS TESTING
1181

This analysis is based on AES Organics Laboratory method O-34 which is accredited under the **UKAS** accreditation scheme.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

ANALYSIS REPORT

NUMBER SV5524-6

Laboratory Address

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NE28 0QD

Client Address:

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FWS Consultants
Merrington House
PO Box 11
Merrington Lane Trading Estate
Spennymoor
Co. Durham
DL16 7UU

Prepared by: Christine Pratt **Signed Date:** 16/03/06

Report Number	SV5524	SV5525	SV5526	
Sample Reference	MB 21/4	MB22/4	MB 23/5	
AES Laboratory Number	3121671	3121674	3121677	
Sample Type	Soil	Soil	Soil	
Units	mg/kg	mg/kg	mg/kg	
2-Picoline	<3.0	<3.0	<3.0	
Aniline	<2.0	<2.0	<2.0	
Phenol	<2.0	<2.0	<2.0	
Bis(2-chloroethyl)ether	<2.0	<2.0	<2.0	
2-Chlorophenol	<2.0	<2.0	<2.0	
1,3-Dichlorobenzene	<2.0	<2.0	<2.0	
1,4-Dichlorobenzene	<2.0	<2.0	<2.0	
Benzyl Alcohol	<2.0	<2.0	<2.0	
1,2-Dichlorobenzene	<2.0	<2.0	<2.0	
2-Methylphenol	<2.0	<2.0	<2.0	
bis(2-Chloroisopropyl)ether	<2.0	<2.0	<2.0	
N-Nitrosodinpropylamine	<2.0	<2.0	<2.0	
4-Methylphenol	<2.0	<2.0	<2.0	
Hexachloroethane	<2.0	<2.0	<2.0	
Nitrobenzene	<2.0	<2.0	<2.0	
Acetophenone	<2.0	<2.0	<2.0	
Isophorone	<2.0	<2.0	<2.0	
2-Nitrophenol	<2.0	<2.0	<2.0	
2,4-Dimethyphenol	<4.0	<4.0	<4.0	
Bis(2-chloroethoxy)methane	<4.0	<4.0	<4.0	
Benzoic Acid	<20	<20	<20	
2,4-Dichlorophenol	<2.0	<2.0	<2.0	
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	
2,6-Dichlorophenol	<2.0	<2.0	<2.0	
4-Chloroaniline	<2.0	<2.0	<2.0	
Hexachlorobutadiene	<2.0	<2.0	<2.0	
N-Nitrosopiperidine	<2.0	<2.0	<2.0	
N-Nitroso-di-n-butylamine	<2.0	<2.0	<2.0	
4-Chloro-3-Methylphenol	<3.0	<3.0	<3.0	
2-Methylnaphthalene	23	73	<2.0	
Hexachlorocyclopentadiene	<3.0	<3.0	<3.0	
2,4,6-Trichlorophenol	<2.0	<2.0	<2.0	
2,4,5-Trichlorphenol	<2.0	<2.0	<2.0	
2-Chloronaphthalene	<2.0	<2.0	<2.0	
1,2,4,5-Tetrachlorobenzene	<2.0	<2.0	<2.0	
1-Chloronaphthalene	<2.0	<2.0	<2.0	
2-Nitroaniline	<2.0	<2.0	<2.0	
2,6-Dinitrotoluene	<2.0	<2.0	<2.0	
3-Nitroaniline	<2.0	<2.0	<2.0	
2,4-Dinitrophenol	<20	<20	<20	
Dibenzofuran	2.7	160	<2.0	
Pentachlorobenzene	<2.0	<2.0	<2.0	
1-Naphtylamine	<2.0	<2.0	<2.0	
4-Nitrophenol	<2.0	<2.0	<2.0	
2,4-Dinitrotoluene	<2.0	<2.0	<2.0	
2-Naphthylamine	<2.0	<2.0	<2.0	
2,3,4,6-Tetrachlorophenol	<2.0	<2.0	<2.0	
Dimethylphthalate	<2.0	<2.0	<2.0	
Diethylphthalate	<2.0	<2.0	<2.0	
4-Chlorophenyl-phenylether	<2.0	<2.0	<2.0	

Report Number	SV5524	SV5525	SV5526	
Sample Reference	MB 21/4	MB22/4	MB 23/5	
AES Laboratory Number	3121671	3121674	3121677	
Sample Type	Soil	Soil	Soil	
Units	mg/kg	mg/kg	mg/kg	
4-Nitroaniline	<5.0	<5.0	<5.0	
4,6-Dinitro-2-methylphenol	<3.0	<3.0	<3.0	
N-Nitrosodiphenylamine	4.0	44	<2.0	
1,2-Diphenylhydrazine	<2.0	<2.0	<2.0	
Diphenylamine	5.6	6.1	<2.0	
4-Bromophenyl-phenylether	<2.0	<2.0	<2.0	
Phenacetin	<2.0	<2.0	<2.0	
Hexachlorobenzene	<2.0	<2.0	<2.0	
4-Aminobiphenyl	<2.0	<2.0	<2.0	
Pentachlorophenol	<3.0	<3.0	<3.0	
Pentachloronitrobenzene	<3.0	<3.0	<3.0	
Pronamide	<2.0	<2.0	<2.0	
Di-n-Butylphthalate	<2.0	<2.0	<2.0	
p-Dimethylaminoazobenzene	<2.0	<2.0	<2.0	
Butylbenzylphthalate	<2.0	<2.0	<2.0	
3,3'-Dichlorobenzidine	<2.0	<2.0	<2.0	
bis(2-ethylhexyl)phthalate	<2.0	<2.0	<2.0	
7,12-Dimethylbenz(a)anthracene	<20	<20	<20	
Di-n-octylphthalate	<2.0	<2.0	<2.0	
3-Methylcholanthrene	<2.0	<2.0	<2.0	
Dibenz(a,j)acridine	<2.0	<2.0	<2.0	
Naphthalene	7.3	120	<1.0	
Acenaphthylene	<1.0	1.1	<1.0	
Acenaphthene	<1.0	160	<1.0	
Fluorene	3.5	240	1.2	
Phenanthrene	8.5	980	3.0	
Anthracene	<1.0	210	<1.0	
Fluoranthene	1.0	680	1.0	
Pyrene	1.6	420	1.3	
Benzo(a)anthracene	2.2	190	<1.0	
Chrysene	<1.0	180	<1.0	
Benzo(b)fluoranthene	1.4	170	<1.0	
Benzo(k)fluoranthene	1.1	77	<1.0	
Benzo(a)pyrene	1.5	160	<1.0	
Indeno(1,2,3-cd)pyrene	<1.0	80	<1.0	
Dibenzo(a,h)anthracene	<1.0	23	<1.0	
Benzo(g,h,I)perylene	<1.0	73	<1.0	

TENTATIVELY IDENTIFIED COMPOUNDS (ESTIMATED CONCENTRATION*)

Report Number	SV5524	SV5525	SV5526	
Sample Reference	MB 21/4	MB22/4	MB 23/5	
AES Laboratory Number	3121671	3121674	3121677	
Sample Type	Soil	Soil	Soil	
Units	mg/kg	mg/kg	mg/kg	
Trimethylbenzene	5.4	-	-	
Butylbenzene	5.7	-	-	
p-Isopropyltoluene	6.8	-	-	
p-allyltoluene	9.7	-	-	
o-Isopropyltoluene	9.7	-	-	
4-Ethyl-m-xylene	4.9	-	-	
Tetrahydromethylnaphthalene	12	-	-	
Tetrahydrodimethylnaphthalene	6.2	-	-	
1-Methylnaphthalene	34	38	-	
Biphenyl	6.5	23	-	
Dimethylnaphthalene	110	120	9.3	
Methylbiphenyl	4.5	13	-	
Trimethylnaphthalene	75	56	8.1	
Methyldibenzofuran	-	100	-	
Methylfluorene	10	85	-	
Methylanthracene	-	170	-	
Tetradecane	-	6.2	-	
Pentadecane	-	9.0	-	
Octadecane	-	12	-	
Decane	6.3	-	-	
Undecane	17	-	-	
Dodecane	5.4	-	-	
Methylphenanthrene	12	46	-	
Dimethylphenanthrene	7.0	24	-	
Dibenzothiophene	-	83	-	
Carbazole	-	110	-	
Phenylnaphthalene	-	46	-	
Benzonaphthofuran	-	89	-	
11H-Benzo[a]fluorene	-	25	-	
11H-Benzo[b]fluorene	-	100	-	
Benzonaphthothiophene	-	16	-	
Benzo[c]phenanthrene	-	19	-	
Dihydrocyclopentapyrene	-	31	-	
Methylbenz[a]anthracene	-	24	-	
Benzo[j]fluoranthene	-	55	-	
Benzo[e]pyrene	-	120	-	
Perylene	-	56	-	
Unidentified PAHs	8.3	81	3.7	
Unidentified Hydrocarbons	460	42	120	
Unidentified Compounds	120	370	8.8	

* Concentrations quoted in the tentatively identified compounds section are outside the scope of UKAS accreditation and are approximations only since they are calculated based on internal standard response and no account is taken of differences in response factors and extraction efficiency.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
Under the authority of P. A. Burton (Analytical Manager)

Christine Pratt



16/03/2006

UKAS TESTING
1181

This analysis is based on AES Organics Laboratory method O-34 which is accredited under the **UKAS** accreditation scheme.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

ANALYSIS REPORT

NUMBER SV5509

Laboratory Address

AES Ltd
Northumberland Dock Road
Howdon
Wallsend
Tyne & Wear
NE28 0QD

Client Address:

Colin Flett
FWS Consultants
Merrington House
PO Box 11
Merrington Lane Trading Estate
Spennymoor
Co. Durham
DL16 7UU

Prepared by: Christine Pratt **Signed Date:** 20/03/06

Report Number	SV5508	SV5509		
Sample Reference	EXT BLANK	MB 9/W		
AES Laboratory Number	-	3121684		
Sample Type	Liquid	Liquid		
Units	mg/L	mg/L		
2-Picoline	<0.0003	<0.13		
Aniline	<0.0002	<0.084		
Phenol	<0.0002	<0.084		
Bis(2-chloroethyl)ether	<0.0002	<0.084		
2-Chlorophenol	<0.0002	<0.084		
1,3-Dichlorobenzene	<0.0002	<0.084		
1,4-Dichlorobenzene	<0.0002	<0.084		
Benzyl Alcohol	<0.0002	<0.084		
1,2-Dichlorobenzene	<0.0002	<0.084		
2-Methylphenol	<0.0002	<0.084		
bis(2-Chloroisopropyl)ether	<0.0002	<0.084		
N-Nitrosodinpropylamine	<0.0002	<0.084		
4-Methylphenol	<0.0002	<0.084		
Hexachloroethane	<0.0002	<0.084		
Nitrobenzene	<0.0002	<0.084		
Acetophenone	<0.0002	<0.084		
Isophorone	<0.0002	<0.084		
2-Nitrophenol	<0.0002	<0.084		
2,4-Dimethyphenol	<0.0004	<0.17		
Bis(2-chloroethoxy)methane	<0.0004	<0.17		
Benzoic Acid	<0.0002	<0.84		
2,4-Dichlorophenol	<0.0002	<0.084		
1,2,4-Trichlorobenzene	<0.0002	<0.084		
2,6-Dichlorophenol	<0.0002	<0.084		
4-Chloroaniline	<0.0002	<0.084		
Hexachlorobutadiene	<0.0002	<0.084		
N-Nitrosopiperidine	<0.0002	<0.084		
N-Nitroso-di-n-butylamine	<0.0002	<0.084		
4-Chloro-3-Methylphenol	<0.0003	<0.13		
2-Methylnaphthalene	<0.0002	0.98		
Hexachlorocyclopentadiene	<0.0003	<0.13		
2,4,6-Trichlorophenol	<0.0002	<0.084		
2,4,5-Trichlorphenol	<0.0002	<0.084		
2-Chloronaphthalene	<0.0002	<0.084		
1,2,4,5-Tetrachlorobenzene	<0.0002	<0.084		
1-Chloronaphthalene	<0.0002	<0.084		
2-Nitroaniline	<0.0002	<0.084		
2,6-Dinitrotoluene	<0.0002	<0.084		
3-Nitroaniline	<0.0002	<0.084		
2,4-Dinitrophenol	<0.0020	<0.84		
Dibenzofuran	<0.0002	0.19		
Pentachlorobenzene	<0.0002	<0.084		
1-Naphtylamine	<0.0002	<0.084		
4-Nitrophenol	<0.0002	<0.084		
2,4-Dinitrotoluene	<0.0002	<0.084		
2-Naphthylamine	<0.0002	<0.084		
2,3,4,6-Tetrachlorophenol	<0.0002	<0.084		
Dimethylphthalate	<0.0002	<0.084		
Diethylphthalate	<0.0002	<0.084		
4-Chlorophenyl-phenylether	<0.0002	<0.084		

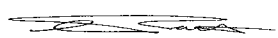
Report Number	SV5508	SV5509		
Sample Reference	EXT BLANK	MB 9/W		
AES Laboratory Number	-	3121684		
Sample Type	Liquid	Liquid		
Units	mg/L	mg/L		
4-Nitroaniline	<0.0005	<0.21		
4,6-Dinitro-2-methylphenol	<0.0003	<0.13		
N-Nitrosodiphenylamine	<0.0002	<0.084		
1,2-Diphenylhydrazine	<0.0002	<0.084		
Diphenylamine	<0.0002	<0.084		
4-Bromophenyl-phenylether	<0.0002	<0.084		
Phenacetin	<0.0002	<0.084		
Hexachlorobenzene	<0.0002	<0.084		
4-Aminobiphenyl	<0.0002	<0.084		
Pentachlorophenol	<0.0003	<0.13		
Pentachloronitrobenzene	<0.0003	<0.13		
Pronamide	<0.0002	<0.084		
Di-n-Butylphthalate	<0.0002	<0.084		
p-Dimethylaminoazobenzene	<0.0002	<0.084		
Butylbenzylphthalate	<0.0002	0.13		
3,3'-Dichlorobenzidine	<0.0002	<0.084		
bis(2-ethylhexyl)phthalate	<0.0002	0.15		
7,12-Dimethylbenz(a)anthracene	<0.0020	<0.84		
Di-n-octylphthalate	<0.0002	<0.084		
3-Methylcholanthrene	<0.0002	<0.084		
Dibenz(a,j)acridine	<0.0002	<0.084		
Naphthalene	<0.0001	0.20		
Acenaphthylene	<0.0001	<0.042		
Acenaphthene	<0.0001	0.28		
Fluorene	<0.0001	0.88		
Phenanthrene	<0.0001	1.9		
Anthracene	<0.0001	0.52		
Fluoranthene	<0.0001	0.64		
Pyrene	<0.0001	0.75		
Benzo(a)anthracene	<0.0001	0.25		
Chrysene	<0.0001	0.2		
Benzo(b)fluoranthene	<0.0001	0.086		
Benzo(k)fluoranthene	<0.0001	0.069		
Benzo(a)pyrene	<0.0001	0.086		
Indeno(1,2,3-cd)pyrene	<0.0001	0.11		
Dibenzo(a,h)anthracene	<0.0001	0.077		
Benzo(g,h,i)perylene	<0.0001	0.099		

TENTATIVELY IDENTIFIED COMPOUNDS (ESTIMATED CONCENTRATION*)

Report Number	SV5508	SV5509		
Sample Reference	EXT BLANK	MB 9/W		
AES Laboratory Number	-	3121684		
Sample Type	Liquid	Liquid		
Units	mg/L	mg/L		
Isopropyltoluene	-	4.8		
Tetramethylpentadecane	-	27		
Tetrahydrodimethylnaphthalene	-	5.3		
1-Methylnaphthalene	-	8.6		
Dimethylnaphthalene	-	17		
Trimethylnaphthalene	-	26		
Decahydronaphthalene	-	4.4		
Decahydromethylnaphthalene	-	7.8		
Methylbiphenyl	-	2.5		
Cyclopentadecane	-	5.2		
Methylphenanthrene	-	2.3		
Dimethylphenanthrene	-	1.9		
Unidentified PAHs	-	6.2		
Unidentified Hydrocarbons	-	140		
Unidentified Compounds	-	100		

* Concentrations quoted in the tentatively identified compounds section are outside the scope of UKAS accreditation and are approximations only since they are calculated based on internal standard response and no account is taken of differences in response factors and extraction efficiency.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
Under the authority of P. A. Burton (Analytical Manager)

ANALYST Christine Pratt

SIGNATURE 

DATE 20/03/2006

UKAS TESTING
1181

This analysis is based on AES Organics Laboratory method O-34 which is accredited under the **UKAS** accreditation scheme.

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

ANALYSIS REPORT

NUMBER SV5511-2

Laboratory Address

AES Ltd
Northumberland Dock Road
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Tyne & Wear
NE28 0QD

Client Address:

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PO Box 11
Merrington Lane Trading Estate
Spennymoor
Co. Durham
DL16 7UU

Prepared by: Christine Pratt **Signed Date:** 20/03/06

Report Number	SV5508	SV5511	SV5512	
Sample Reference	EXT BLANK	BH6	MB8	
AES Laboratory Number	-	3123911	3123912	
Sample Type	Liquid	Liquid	Liquid	
Units	mg/L	mg/L	mg/L	
2-Picoline	<0.0003	<0.003	<0.051	
Aniline	<0.0002	<0.002	<0.034	
Phenol	<0.0002	<0.002	<0.034	
Bis(2-chloroethyl)ether	<0.0002	<0.002	<0.034	
2-Chlorophenol	<0.0002	<0.002	<0.034	
1,3-Dichlorobenzene	<0.0002	<0.002	<0.034	
1,4-Dichlorobenzene	<0.0002	<0.002	<0.034	
Benzyl Alcohol	<0.0002	<0.002	<0.034	
1,2-Dichlorobenzene	<0.0002	<0.002	<0.034	
2-Methylphenol	<0.0002	<0.002	<0.034	
bis(2-Chloroisopropyl)ether	<0.0002	<0.002	<0.034	
N-Nitrosodinpropylamine	<0.0002	<0.002	<0.034	
4-Methylphenol	<0.0002	<0.002	<0.034	
Hexachloroethane	<0.0002	<0.002	<0.034	
Nitrobenzene	<0.0002	<0.002	<0.034	
Acetophenone	<0.0002	<0.002	<0.034	
Isophorone	<0.0002	<0.002	<0.034	
2-Nitrophenol	<0.0002	<0.002	<0.034	
2,4-Dimethyphenol	<0.0004	<0.004	<0.068	
Bis(2-chloroethoxy)methane	<0.0004	<0.004	<0.068	
Benzoic Acid	<0.0002	<0.002	<0.034	
2,4-Dichlorophenol	<0.0002	<0.002	<0.034	
1,2,4-Trichlorobenzene	<0.0002	<0.002	<0.034	
2,6-Dichlorophenol	<0.0002	<0.002	<0.034	
4-Chloroaniline	<0.0002	<0.002	<0.034	
Hexachlorobutadiene	<0.0002	<0.002	<0.034	
N-Nitrosopiperidine	<0.0002	<0.002	<0.034	
N-Nitroso-di-n-butylamine	<0.0002	<0.002	<0.034	
4-Chloro-3-Methylphenol	<0.0003	<0.003	<0.051	
2-Methylnaphthalene	<0.0002	0.005	<0.034	
Hexachlorocyclopentadiene	<0.0003	<0.003	<0.051	
2,4,6-Trichlorophenol	<0.0002	0.006	<0.034	
2,4,5-Trichlorphenol	<0.0002	<0.002	<0.034	
2-Chloronaphthalene	<0.0002	<0.002	<0.034	
1,2,4,5-Tetrachlorobenzene	<0.0002	<0.002	<0.034	
1-Chloronaphthalene	<0.0002	<0.002	<0.034	
2-Nitroaniline	<0.0002	<0.002	<0.034	
2,6-Dinitrotoluene	<0.0002	<0.002	<0.034	
3-Nitroaniline	<0.0002	<0.002	<0.034	
2,4-Dinitrophenol	<0.0020	<0.020	<0.34	
Dibenzofuran	<0.0002	<0.002	0.039	
Pentachlorobenzene	<0.0002	<0.002	<0.034	
1-Naphtylamine	<0.0002	<0.002	<0.034	
4-Nitrophenol	<0.0002	<0.002	<0.034	
2,4-Dinitrotoluene	<0.0002	<0.002	<0.034	
2-Naphthylamine	<0.0002	<0.002	<0.034	
2,3,4,6-Tetrachlorophenol	<0.0002	<0.002	<0.034	
Dimethylphthalate	<0.0002	<0.002	<0.034	
Diethylphthalate	<0.0002	<0.002	<0.034	
4-Chlorophenyl-phenylether	<0.0002	<0.002	<0.034	

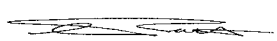
Report Number	SV5508	SV5511	SV5512	
Sample Reference	EXT BLANK	BH6	MB8	
AES Laboratory Number	-	3123911	3123912	
Sample Type	Liquid	Liquid	Liquid	
Units	mg/L	mg/L	mg/L	
4-Nitroaniline	<0.0005	<0.005	<0.085	
4,6-Dinitro-2-methylphenol	<0.0003	<0.003	<0.051	
N-Nitrosodiphenylamine	<0.0002	0.024	0.72	
1,2-Diphenylhydrazine	<0.0002	<0.002	<0.034	
Diphenylamine	<0.0002	<0.002	<0.034	
4-Bromophenyl-phenylether	<0.0002	<0.002	<0.034	
Phenacetin	<0.0002	<0.002	<0.034	
Hexachlorobenzene	<0.0002	<0.002	<0.034	
4-Aminobiphenyl	<0.0002	<0.002	<0.034	
Pentachlorophenol	<0.0003	0.013	<0.051	
Pentachloronitrobenzene	<0.0003	<0.003	<0.051	
Pronamide	<0.0002	<0.002	<0.034	
Di-n-Butylphthalate	<0.0002	<0.002	<0.034	
p-Dimethylaminoazobenzene	<0.0002	<0.002	<0.034	
Butylbenzylphthalate	<0.0002	<0.002	0.037	
3,3'-Dichlorobenzidine	<0.0002	<0.002	<0.034	
bis(2-ethylhexyl)phthalate	<0.0002	0.002	0.039	
7,12-Dimethylbenz(a)anthracene	<0.0020	<0.020	<0.34	
Di-n-octylphthalate	<0.0002	<0.002	0.035	
3-Methylcholanthrene	<0.0002	<0.002	<0.034	
Dibenz(a,j)acridine	<0.0002	<0.002	<0.034	
Naphthalene	<0.0001	0.002	0.061	
Acenaphthylene	<0.0001	<0.002	0.034	
Acenaphthene	<0.0001	0.003	0.073	
Fluorene	<0.0001	0.004	0.23	
Phenanthrene	<0.0001	0.003	0.35	
Anthracene	<0.0001	<0.001	0.041	
Fluoranthene	<0.0001	0.001	<0.017	
Pyrene	<0.0001	0.004	0.19	
Benzo(a)anthracene	<0.0001	0.003	0.071	
Chrysene	<0.0001	0.003	0.055	
Benzo(b)fluoranthene	<0.0001	<0.001	0.023	
Benzo(k)fluoranthene	<0.0001	<0.001	0.028	
Benzo(a)pyrene	<0.0001	0.001	0.029	
Indeno(1,2,3-cd)pyrene	<0.0001	<0.001	<0.017	
Dibenzo(a,h)anthracene	<0.0001	<0.001	<0.017	
Benzo(g,h,I)perylene	<0.0001	<0.001	<0.017	

TENTATIVELY IDENTIFIED COMPOUNDS (ESTIMATED CONCENTRATION*)

Report Number	SV5508	SV5511	SV5512	
Sample Reference	EXT BLANK	BH6	MB8	
AES Laboratory Number	-	3123911	3123912	
Sample Type	Liquid	Liquid	Liquid	
Units	mg/L	mg/L	mg/L	
Tetrahydrodimethylnaphthalene	-	0.089	5.9	
Dimethylnaphthalene	-	0.13	1.8	
Trimethylnaphthalene	-	0.076	7.3	
Decahydronaphthalene	-	-	1.2	
Decahydromethylnaphthalene	-	-	1.6	
Methylphenanthrene	-	0.009	0.78	
Dimethylphenanthrene	-	0.011	0.60	
(Methylpropenyl)benzene	-	0.072	-	
Tetramethylbenzene	-	0.013	-	
Tetrahydronaphthalene	-	0.018	-	
(Methylbutenyl)benzene	-	0.036	-	
Dihydromethylindene	-	0.085	1.3	
Dimethylbiphenyl	-	-	1.1	
Unidentified PAHs	-	0.009	3.9	
Unidentified Hydrocarbons	-	0.25	17	
Unidentified Compounds	-	0.22	34	

* Concentrations quoted in the tentatively identified compounds section are outside the scope of UKAS accreditation and are approximations only since they are calculated based on internal standard response and no account is taken of differences in response factors and extraction efficiency.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
Under the authority of P. A. Burton (Analytical Manager)

ANALYST Christine Pratt

SIGNATURE 

DATE 20/03/2006

aes ANALYTICAL REPORT

CLIENT: SR Gent plc

CONTRACT: Dodworth Road, Barnsley

CONTRACT REF: FWS-11927

DETERMINAND	METHOD	RESULTS
Thin Layer Chromatography	In-House*	T135

Lab No.	Sample Description	TLC
3121617	MB 2/1	Diesel Type Oil
3121674	MB 22/3	Coal tar material
3122102	BH1 0.3-0.8	Coal tar material

Tests marked "*" in this report are NOT included in the **NAMAS** accreditation schedule for our laboratory

Name : Mick Phelan | Signature : | Date : 31/3/06

SR Gent plc (In administrative receivership)
c/o PricewaterhouseCoopers
Benson House
33 Wellington Street
Leeds
LS1 4JP

Analytical & Environmental Services Ltd
Northumberland Dock Road
Wallsend
Tyne & Wear
NE28 0QD
Tel.(0191) 2968500 Fax. (0191) 2968535

BULK ANALYSIS REPORT:

Date Samples Received: 03 March 2006

Project Ref. No:	Report No:	Office Code:
9700	38801	CON

UKAS TESTING
0244

Customer Address Details	AES - Wallsend Northumberland Dock Road Wallsend, Tyne & Wear, NE28 0QD	**Tel No**	0191 2968500
		Fax Number	(0191) 2968560
		Order Number	48540
		Contact:	D. Innes

ANALYTICAL PROCEDURE (In house document based on HSE Publication HSG 248 Appendix 2)

Fibres found in the sample or small portions of the sample were mounted on glass slides in specific refractive index liquids and examined using polarised light and dispersion staining microscopy. Fibres were identified by comparison of their optical properties with those of standard asbestos materials and published data. MIS Limited accepts responsibility only for results obtained from samples received. No responsibility is accepted for errors which may have arisen during the sampling or transportation of the samples by a third party. Re: Artex Samples - analysis is carried out to HSG 248, however we would recommend that SEM (Scanning Electron Microscopy) analysis be used for this type of analysis.

KEY: Crocidolite (Blue Asbestos) Amosite (Brown Asbestos) Chrysotile (White Asbestos) NAD (No asbestos Detected)
The analytical method is not quantative, typical % of asbestos content used in various products is available in MDHS 100 Table 1.
Trace Asbestos: 1 - 2 asbestos fibres seen

Sampled By:	As Received	Analysed By:	A. Heels	Date Analysed:	04/03/2006

Lab Code	Analyst Code	Sample Details/Location	Material	Result
190481	N/A	3121618, MB 2/2, Soil 5R Gent, Dodworth Road, Barnsley	Soil	NAD
190482	N/A	3121629, MB 6/1, Soil 5R Gent, Dodworth Road, Barnsley	Soil	NAD
190483	N/A	3121655, MB 17/1, Soil 5R Gent, Dodworth Road, Barnsley	Soil	NAD
190484	N/A	3121661, MB 19/2, Soil 5R Gent, Dodworth Road, Barnsley	Soil	NAD
190485	N/A	3121669, MB 21/1, Soil 5R Gent, Dodworth Road, Barnsley	Soil	NAD

Analyst Signature: pp

Date of Issue: 04 March 2006

Authorised Signature:

Jeff Cruddas - Laboratory Manager
Alasdair Nairn - Director

☑ Peter Jackson - Bulk Analyst
☐ Paul King - Environmental Manager
☐ Laurence Bell - Laboratory Administrator
☐ Chris McConnell - Quality Manager

* Comments, observations and opinions are outside of the UKAS Accreditation Scope.

Eden House, Unit 2, Watling Street Industrial Estate, Leadgate, Consett, Co. Durham. DH8 6TA
Tel: (01207) 500463/Fax: 590240, E-mail: Info@mis-environmental.co.uk

MIS Ltd ENVIRONMENTAL

BULK ANALYSIS REPORT:

UKAS TESTING
0244

Customer Address:	AES - Wallsend Northumberland Dock Road Wallsend, Tyne & Wear NE28 0QD	**Tel No:**	0191 2968500
		Fax Number:	(0191) 2968560
		Order Number:	48590
		Contact:	David Innes
Sampled By:		**Site Location:**	3 Samples from SR Gent, Dodsworth Road, Barnsley

ANALYTICAL PROCEDURE (In house document based on HSE Publication HSG 248 Appendix 2)

Fibres found in the sample or small portions of the sample were mounted on glass slides in specific refractive index liquids and examined using polarised light and dispersion staining microscopy. Fibres were identified by comparison of their optical properties with those of standard asbestos materials and published data. If only 1-2 asbestos fibres seen - Trace asbestos will be reported. MIS Limited accepts responsibility only for results obtained from samples received. No responsibility is accepted for errors which may have arisen during the sampling or transportation of the samples by a third party. Re: Artex Samples - analysis is carried out to HSG 248, however we would recommend that SEM (Scanning Electron Microscopy) analysis be used for this type of analysis.

KEY: Crocidolite (Blue Asbestos) Amosite (Brown Asbestos) Chrysotile (White Asbestos) NAD (No asbestos Detected)

The analytical method is not quantative, typical % of asbestos content used in various products is available in MDHS 100 Table 1.

Lab Analyst / Analysis Date

Lab Cod	Analyst Code	Sample Details/Location	Material	Result
Andrew Heels - 14/03/2006				
579		SR Gent, Dodworth Road, Barnsley, 3122119, BH 6 1.5 - 1.95	Soil	NAD
578		SR Gent, Dodworth Road, Barnsley, 3122117, BH 4 0.6 - 1.2	Soil	NAD
576		SR Gent, Dodworth Road, Barnsley, 3122115, BH 3 0.6 - 1.2	Soil	NAD

Andrew Heels (Bulk Analyst) :

Daniel Appleby (Bulk Analyst) :

Jeff Cruddas (Bulk Analyst) :

Michael Austin (Bulk Analyst) :

Peter Jackson (Bulk Analyst) :

Authorised Signature:

Jeff Cruddas - Laboratory Manager ☑ Peter Jackson - Bulk Analyst ☐ Laurence Bell - Laboratory Administrator ☐

Alasdair Nairn - Director ☐ Paul King - Environmental Manager ☐ Chris McConnell - Quality Manager ☐

* Comments, observations and opinions are outside of the UKAS Accreditation Scope.

Eden House, Unit 2, Watling Street Industrial Estate, Leadgate, Consett, Co. Durham. DH8 6TA
Tel: (01207) 500463/Fax: 590240, E-mail: Info@mis-environmental.co.uk

Project Ref. No:	Job No:	Office Code:
1845	16576	Con

Date of Issue: 14 March 2006

mis Ltd ENVIRONMENTAL

aes

QUALITY ASSURANCE STATEMENT

INTRODUCTION

Analytical and Environmental Services Ltd is a part of Northumbrian Water Group. AES recognises that the maintenance of quality standards is the keystone to our success, our reputation, and to the professional satisfaction of our staff.

We are therefore committed to a policy of ensuring that our laboratories and sampling staff maintain a standard which complies with the requirements of the ISO17025 accreditation standard and the requirements of MCERTS (Soil Testing) and MCERTS (Air Emissions) where appropriate. We shall continually review our quality assurance management system to provide a service which fully meets the requirements of our clients.

AES has large well-equipped laboratories at Howdon in Tyne and Wear, Horsley in Northumberland, and Chelmsford in the South East. The laboratories embrace inorganic, organic and contaminated land analyses as well as microbiological analysis. The scopes of accreditation involve a very large number of individual determinands and broadly cover the following categories of samples:

- Potable, surface and groundwaters
- Waste waters
- Sludges
- Soils
- Contaminated land samples
- Sediments
- Air samples

QUALITY SYSTEM

Laboratories

To the ends outlined in the introduction, we have introduced a formal system of quality policies and practices, documented in a Quality Manual which is backed up by fully documented Procedures and Analytical Methods Manuals.

The quality system is subject to regular monthly internal audits by a representative who is independent of laboratory responsibility and who reports to the Technical Director. Rigorous external audits are carried out annually by UKAS to ensure compliance with the ISO17025 and the MCERTS standard, and by the Drinking Water Inspectorate (Potable Water only) to ensure compliance with current Drinking Water Regulations.

Analysis is only carried out by authorized staff who are trained in accordance with the requirements of ISO17025 and have fulfilled a criteria of competence.

Where instrument calibration is required, this is carried out before each batch of analysis with acceptability limits applied prior to sample analysis proceeding.

Calibration of general equipment is carried out in-house or by the use of external UKAS accredited agents. All equipment calibrations are scheduled at set frequencies.

All accredited methods are fully validated in compliance with ISO17025 and deemed 'fit for purpose' by AES.

Each batch of samples for accredited tests has associated control standards. Control charts are maintained and reviewed, and all failures of AQC are investigated and an appropriate action taken in accordance with a fully documented procedure. All laboratories participate in external proficiency schemes where these are available.

While we do not allow their distribution, all manuals and audit records are available for inspection on our premises.

Sampling and Site Testing

Sampling and on-site testing services are also provided, together with sampling programme design and planning, particularly in relation to compliance with water quality standards. Sampling programmes are also designed for both air pollution and aqueous effluent monitoring.

As required by ISO17025, the same quality system as described above for laboratories, equally applies to our sampling activities.

The quality system for sampling and site testing operations is also subject to the regular audit regime applied to the laboratories. A programme of on-site audits of sampling and site test activities ensures that, where practicable, all personnel involved in these activities, and most of the methods employed, are covered in the course of a calendar year. Our sampling activities are regularly audited by the Environment Agency for compliance with MCERTS (Air Emissions) and the UWWTD.

Copies of the accreditation certificates and Schedules for the laboratories and sampling operations are enclosed.

AES pride themselves in maintaining good relationships with clients. Our quality system includes procedures which help keep the client informed particularly if problems arise. We also regularly review the progress of contracts to ensure that our clients' expectations are continually met.

As a company we also hold ISO9001:2000 and ISO14001 certification to demonstrate our commitment to quality throughout our business.

I trust the above information is adequate to enable you to make an assessment of our company's approach to Quality Assurance but should you require any further information, please do not hesitate to contact the undersigned.

M. Kilburn

Mark Kilburn
Quality, Safety and Environmental Manager

2.1 AIMS AND FORM OF THE QUALITY SYSTEM

2.1.1 The laboratory operates a Quality System appropriate to the type, range, precision, volume of tests and sampling undertaken, ensuring that the requirements of ISO 17025 are fully met on a continuing basis.

2.1.2 The Quality System is fully described in this Quality Manual and, together with the supporting documentation, comprises the instructions for implementing the required policy.

2.1.3 The Quality Manual can be accessed via a PC on the AES Document Store. All staff will be made aware of the requirements of the system by reference to this and by active monitoring of the Manual and associated procedures by the Quality Manager or a nominated deputy.

2.2 QUALITY MANUAL

2.2.1 This Quality Manual (issued 11th July 2003 – Issue 1) is a corporate quality manual which supersedes all of the site specific AES Quality Manuals previously issued at AES Chelmsford (previous Essex and Suffolk Water), AES Horsley and AES Howdon (including the Thornaby, Daventry and Levenmouth sites).

2.2.2 The Quality Manager is responsible for the compilation and revision of the text of the Quality Manual.

2.2.3 The Quality Manual and its revisions are issued by the Quality Manager under the authority of the Managing Director.

2.2.4 Copies of the Quality Manual will be issued to all copy holders listed on the Controlled Document Register maintained by the Quality Manager. The register will show the control and amendment status of each copy distributed.

2.2.5 The Quality Manual will be supplemented by Technical Instructions issued by the Quality Manager and authorised by the Technical Director.

2.2.6 All references to ISO17025 in this manual include the additional requirements of the MCERTS performance standard for the chemical testing of soil, where applicable.

2.3 QUALITY MANAGEMENT

2.3.1 The Analytical and Contracts Manager will perform the duties required of the deputy Technical Manager in their own work areas and be responsible for:

The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
Once printed, this document becomes an UNCONTROLLED COPY.

a) The technical operation of their work areas ensuring that the requirements of ISO 17025 are met.

b) The specification of laboratory policy, definition of operating procedures, control and technical supervision of staff, calibration of equipment and verification of test results.

c) The control and maintenance of relevant technical information, including a comprehensive record of all modifications and changes.

2.3.2 The Quality Manager is responsible for organising and implementing an audit function for the laboratory, and for carrying out a global review of the Quality System as required by paragraph 4.2.8 of this manual.

2.3.3 The Laboratory Director will be the authority for investigating instances of undue influence being brought upon laboratory personnel. A written report of the circumstances will be made and sent to the Managing Director

2.4 DOCUMENTATION

2.4.1 Separate registers will be maintained by the Quality Manager for Quality Manuals, Test Procedures or Technical Instructions and National Standards or Regulations received. The registers will record the following details:

a) Document title or subject.

b) Identification number or reference.

c) Issue status, if applicable.

d) Copy holders for distribution purposes.

2.4.2 The records of documentation for quality and technical data will be subject to review by the Technical Director.

2.4.3 The Quality Manager is responsible for deciding the required distribution of documents within the laboratory, ensuring that the register is updated where there has been a change in the names of recipients.

2.4.4 Where revised documents are issued, the recipient will ensure that superseded copies are removed from the file and destroyed.

The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
Once printed, this document becomes an UNCONTROLLED COPY.

2.4.5 The Quality Manager will ensure that one copy of an obsolete document is retained for archive purposes, each page being stamped "Superseded".

2.4.6 All aspects of laboratory activities are documented to the extent necessary to demonstrate the quality of the sampling or tests carried out.

2.4.7 The Quality Manager will be responsible for the control and maintenance of Quality System documentation.

2.4.8 Amendments to documented procedures on computerised network systems will be in accordance with the ISO Procedure AES 1-Quality Document Control and Archiving.

2.4.9 No alteration or amendment will be made to any controlled Quality System document by any person without the specific authorisation of the Quality Manager. Handwritten amendments are not permitted.

2.4.10 All staff performing activities relating to those defined in the Quality Manual will adhere to the laid down policies and procedures, and departures will only be permitted with the specific authorisation of the Quality Manager or deputy.

2.4.11 Where a non-compliance with documented policy, procedures or standard specification is identified, the Quality Manager will be advised and action taken in accordance with paragraph 12.5.1 of this manual.

2.4.12 Publications are periodically produced by UKAS, the Quality Manager is responsible for the control and maintenance of the UKAS Documents file.

2.5 QUALITY PROCEDURES

2.5.1 The Quality Manager will be responsible for developing and revising this copy of the Quality Manual and quality procedures, and maintaining a register giving the following information:

a) Reference number and title of each procedure.

b) Issue status.

c) Names of copy holders.

2.6 QUALITY CONTROL CHECKS

The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
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2.6.1 The Quality Manager will ensure that ongoing quality control checks are applied to all analytical determinations within the scope of UKAS accreditation to give confidence in the reported results.

2.6.2 The checks include the use of QC samples, reference materials and participation in proficiency schemes wherever applicable.

2.6.3 Ancillary equipment such as balances, syringes, volumetric glassware, thermometers etc. are calibrated according to a schedule to ensure their continued valid status.

2.6.4 Analytical equipment is calibrated prior to each batch run, using multi-point standards, with a single point standard at the end of the batch to check on drift where long runs are involved eg overnight.

2.6.5 Analysis is carried out within the linear working range of the method, this being previously determined by experiment. Results falling outside of this range are diluted appropriately.

2.6.6 Control standards are analysed with each batch of samples and the results plotted on control charts to ensure that the method remains within statistical control. The control charts are reviewed regularly according to Procedure TI-122 of the Procedures Manual.

2.6.7 The laboratory will participate in nationally recognised proficiency testing schemes including Aquacheck, Central Science Laboratory LEAP, CONTEST, WASP, PHLS and LGC Crypts. The results from these schemes are reviewed and failures are investigated, seeking to establish the causes and to take remedial action if possible. The procedure for dealing with failures of proficiency scheme results is given in the Procedures Manual, reference TI-108.

2.7 NATIONAL STANDARDS AND REGULATIONS

2.7.1 Copies of national standards will be held in the AES library. The Contracts Manager will determine the extent of standards applicable to each contract.

2.7.2 Revisions to standards which occur within the course of a contract will be reviewed to assess any potential impact on the work to be carried out. Any such changes will be notified to the client in accordance with Section 12 of the Quality Manual.

2.7.3 The Technical Director will be responsible for ensuring that the applicable standards or regulations held by the Company are the latest revision. This may be achieved by applying one of the following options:

a) Direct reference to the issuing authority prior to use of the standard.

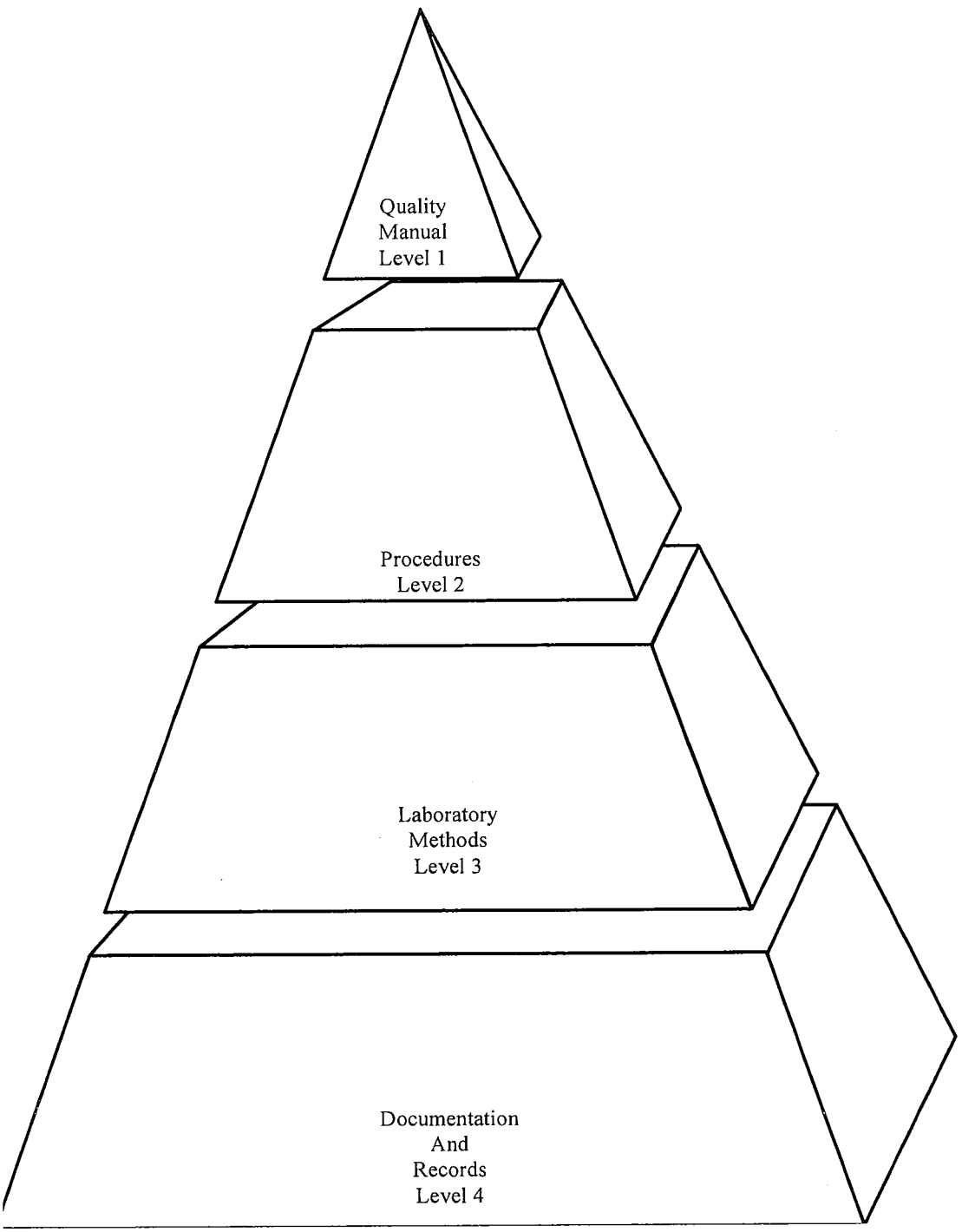
b) Use of an automatic updating service operated by the publisher, or a third party.

The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
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c) Review of technical journals which give information related to changes occurring.

The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
Once printed, this document becomes an UNCONTROLLED COPY.

QUALITY SYSTEM STRUCTURE



The only authorised copies of this procedure are those on the AES computer network (Document Store) and additional controlled copies distributed by the Quality Manager.
Once printed, this document becomes an UNCONTROLLED COPY.

AES - Analytical Method Details

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

CONTAMINATED SOIL SAMPLES - INORGANIC

Determinand	Standard Specification/ Technique Used	Method Reference
Aluminium	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Ammonia/ Ammoniacal Nitrogen	Potassium Chloride Extraction- colorimetric determination autoanalyser	SCA method
Antimony	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Arsenic	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Asbestos (presence)	Microscopy (subcontracted)	
Asbestos (presence & fibre count)	Microscopy (subcontracted)	
Barium	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Beryllium	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Boron,	Aqua Regia Digest Analysis by ICPOES Spectrometry	SCA method
Boron (soluble)	Aqueous Extraction, Analysis by ICPOES Spectrometry	MAFF/ADAS Book 427
Cadmium	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Calcium	Aqua Regia Digest Analysis by ICPOES Spectrometry	SCA method
Carbon-total	Combustion	N/A
Carbon-Total Organic	Potassium Dichromate Digestion, Colorimetric End Point	MAFF/ADAS Book 427
Calorific Value	Bomb calorimeter on air dried sample	BS 1016
Chloride	Water extraction, ion chromatography end point	BS 1377
Chromium (VI)	Potassium Hydrogen Phosphate Extract, Diphenyl Carbazide end point	APHA-AWWA-WPCF
Chromium (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Cobalt (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Conductivity	Calcium Sulphate Extraction	MAFF/ADAS Book 427
Copper (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Copper (available)	Ammonium EDTA Extraction Analysis by ICPMS Spectrometry	MAFF/ADAS Book 427
Cyanide (total)	High temperature distillation followed by colorimetric end point autoanalyser	AERE Harwell Report
Cyanide (FeII/FeIII)	By Calculation from Total & Free Cyanide	AERE Harwell Report
Cyanide (free)	Air stripping of free cyanide, colorimetric end point titration	AERE Harwell Report

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

CONTAMINATED SOIL SAMPLES - INORGANIC

Determinand	Standard Specification/ Technique Used	Method Reference
Leachate Preparation	NRA method	
Fluoride	Acid Digest, Ion Selective Electrode determination	SCA Method
Iron (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Lead (available)	Ammonium EDTA Extraction, Analysis by ICPMS Spectrometry	MAFF/ADAS Book 427
Lead (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Loss on Ignition	Ignition at 600oC	BS 1377
Magnesium	Aqua Regia Digest Analysis by ICPOES Spectrometry	SCA method
Manganese	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Mercury	Aqua Regia Digest Analysis by Cold Vapour Hydride	SCA method
Moisture @ 30°C	Gravimetric end point after drying	BS 1377
Moisture @ 105°C	Gravimetric end point after drying	BS 1377
Molybdenum	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Nickel (available)	Ammonium EDTA Extraction, Analysis by ICPMS Spectrometry	MAFF/ADAS Book 427
Nickel (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Nitrate	Potassium Chloride Extraction Colorimetric Determination	MAFF/ADAS Book 427
Nitrogen(Total Kjeldahl)	Kjeldahl Digestion, Titrimetric Endpoint	MAFF/ADAS Book 427
Organic Matter	Dichromate Digestion, Colorimetric Determination	MAFF/ADAS Book 427
pH	Water suspension, glass electrode determination	BS 1377
Phosphate (total)	Acid digestion then colorimetric end point,	SCA method
Phosphate (available Phosphorus (extractable)	Bicarbonate extraction, colorimetric end point or ICPOES Spectrometry	MAFF/ADAS Book 427
Potassium	Aqua Regia Digest Analysis by ICPOES Spectrometry	SCA method
Potassium (extractable)	Ammonium Nitrate Extraction, Analysis by ICPOES Spectrometry	MAFF/ADAS Book 427
Selenium	Aqua Regia Digestion, Analysis by ICPMS Spectrometry	SCA method
Silver	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Sodium	Aqua Regia Digest Analysis by ICPOES Spectrometry	SCA method
Sulphate (total)	Dilute HCI extraction ion chromatography end point	BS 1377

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

CONTAMINATED SOIL SAMPLES - INORGANIC

Determinand	Standard Specification/ Technique Used	Method Reference
Sulphate (BS1377 2:1 soil extract	2:1 watersoil extract, ion chromatrography end point	BS 1377
Sulphide	Acidification, Hydrogen Sulphide evolution, colorimetric end point	SCA method
Sulphur - Total	By ICPMS Spectrometry	
Sulphur – Free/Elemental	By HPLC	British Gas method
Thiocyanate	Water extraction - colorimetric end point titration	
Tin	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Vanadium	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method
Zinc (available)	Ammonium EDTA extraction followed by ICPMS Spectrometry	MAFF/ADAS Book 427
Zinc (total)	Aqua Regia Digest Analysis by ICPMS Spectrometry	SCA method

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

CONTAMINATED SOIL SAMPLES - ORGANIC

Determinand	Standard Specification/ Technique Used	Method Reference
BTEX	Purge and Trap GCMS	EPA method 524.2
Cyclohexane extract	Soxhlet extraction after air drying, gravimetric end determination	In house method
Diesel Range Organics	Extraction with DCM followed by GCFID	EPA method
Dioxins	High Resolution GC-MS using appropriate protocols	EPA method
Organophoshorous Pesticides	Soxhlet extraction followed by GC or GCMS	HMSO method
Organochlorine Pesticides	Soxhlet extraction followed by GC or GCMS	HMSO method
PCBs(7 Congeners & Total)	Soxhlet extraction followed by GC-ECD	HMSO method
Pentachlorophenols	Hexane extraction followed by GCMS	HMSO method
Petroleum Range Organics	Purge and Trap GCFID	EPA method
Phenol	Colorimetric end point, expressed as Phenolics	EPA method
Phenols: Cresols Dimethylphenols Ethylphenols Isopropylphenols Naphthols Phenol Trimethylphenols	Methanol water extraction followed by HPLC using electro-chemical detection	British Gas method
Polynuclear Aromatic Hydrocarbons	EPA 16 by GCMS	EPA method
Polynuclear Aromatic Hydrocarbons	Total EPA 16 by GCMS	EPA method
SVOCs	Acid and base/neutral extraction with DCM followed by GCMS	EPA method
SVOC Screen	Acid and base/neutral extraction with DCM followed by GCMS	EPA method
Toluene extract	Soxhlet extraction, gravimetric end determination	AERE Harwell Report
Total Petroleum Hydrocarbons	By GC FID	SCA method
T P H (Carbon banding)	By GC-FID	SCA method
VOCs	Purge and Trap GCMS,	based on EPA Method 524.2
VOC Screen	Purge and Trap GCMS(identify 10 most significant peaks)	based on EPA Method 524.2

ANALYTICAL AND ENVIRONMENTAL SERVICES
ACCREDITATION & LIMITS OF DETECTION

CONTAMINATED SOIL SAMPLES - INORGANIC

Determinand	UKAS Accredited	MCERTS Accredited	LOD
Aluminium			10 mg/kg
Ammonia/ Ammoniacal Nitrogen			3 mg/kg
Antimony		Y	0.1 mg/kg
Arsenic	Y	Y	0.4 mg/kg
Asbestos (subcontracted)	Y		
Barium		Y	2.0 mg/kg
Beryllium		Y	0.08 mg/kg
Boron			10 mg/kg
Boron (water soluble)	Y		0.1 mg/kg
Cadmium	Y	Y	0.2 mg/kg
Calcium	Y		60 mg/kg
Calorific Value			100 mg/kg
Chloride	Y		10 mg/kg
Chromium (VI)	Y		1 mg/kg
Chromium	Y	Y	2 mg/kg
Cobalt		Y	0.2 mg/kg
Copper	Y	Y	2 mg/kg
Copper (available)			3 mg/kg
Cyanide	Y	Y	0.4 mk/kg
Cyanide (FeII/FeIII)	Y	Y	0.4 mg/kg
Cyanide (free)	Y		0.4 mg/kg
Thiocyanate	Y	Y	1 mg/kg
Fluoride			2 mg/kg
Iron (available)			
Iron	Y		40 mg/kg
Leachate Preparation (NRA)			
Leachate Preparation (2 Stage) EN 12457			
Lead (available)			1 mg/kg
Lead	Y	Y	2 mg/kg
Loss on Ignition			10 mg/kg
Magnesium			9 mg/kg
Manganese		Y	2 mg/kg
Mercury	Y		0.03 mg/kg

ANALYTICAL AND ENVIRONMENTAL SERVICES
ACCREDITATION & LIMITS OF DETECTION

CONTAMINATED SOIL SAMPLES - INORGANIC

Determinand	UKAS Accredited	MCERTS Accredited	LOD
Moisture @ 30°C			
Moisture @ 105°C			
Molybdenum		Y	0.03 mg/kg
Nickel (available)			6 mg/kg
Nickel	Y	Y	2 mg/kg
Nitrate			3 mg/kg
Organic Carbon			1 g/kg
Organic Matter			1 g/kg
pH	Y		
Phenolics (as Phenol)	Y		1 mg/kg
Phosphorus	Y		30 mg/kg
Phosphate (available			16 mg/kg
Potassium	Y		300 mg/kg
Selenium	Y	Y	0.2 mg/kg
Sodium	Y		60 mg/kg
Sulphate (total) BS1377	Y		100 mg/kg
Sulphate (BS1377 2:1 soil extract	Y		0.1 g/kg
Sulphide	Y		10 mg/kg
Sulphur – Total	Y		100 mg/kg
Sulphur – Free	Y	Y	5 mg/kg
Tin	Y		0.3 mg/kg
Titanium	Y		1.0 mg/kg
Vanadium	Y	Y	2 mg/kg
Zinc (available)			3 mg/kg
Zinc	Y	Y	3 mg/kg

ANALYTICAL AND ENVIRONMENTAL SERVICES
ACCREDITATION & LIMITS OF DETECTION

CONTAMINATED SOIL SAMPLES - ORGANIC

Determinand	UKAS Accredited	MCERTS Accedited	LOD
BTEX	Y		50 ug/kg
Diesel Range Organics	Y		70 mg/kg
Dioxins/Furans	Y		
PCBs	Y		20 ug/kg
Oil ID	Y		
Organophoshorous Pesticides			20 ug/kg
Organochlorine Pesticides	Y		20 ug/kg
Petroleum Range Organics	Y		2 mg/kg
Phenols: Cresols Dimethylphenols Ethylphenols Isopropylphenols Naphthols Phenol Trimethylphenols	Y	Y	1 ug/kg
Polynuclear Aromatic Hydrocarbons	Y		1 mg/kg
Polynuclear Aromatic Hydrocarbons (total of 16 EPA only)	Y	Y	1 mg/kg
SVOCs	Y		1 mg/kg
SVOC scan (GCMS)			
Thin Layer Chromatography			
Cyclohexane Extract	Y		330 mg/kg
Toluene extract	Y		430 mg/kg
TPH (by GCFID)	Y	Y	70 mg/kg
TPH (with Carbon Banding) subcontracted	Y	Y	70 mg/kg
VOCs(full suite)	Y		50 ug/kg
VOC scan (10 most prominent compounds)			

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

WATER & WASTEWATER SAMPLES INORGANIC DETERMINANDS

Determinand	Standard Specification/ Technique Used	Method Reference
Alkalinity	Titration to pH 4.5 (SCA 1981 IBSN 0117516015)	SCA method
Aluminium	by Inductively Coupled Plasma Spectrometry	SCA method *
Ammonia	by Inductively Coupled Plasma Spectrometry	SCA method
Antimony	by Hydride Generation	PS Analytical /SCA method
Arsenic	by Hydride Generation	PS Analytical /SCA method
Barium	by Inductively Coupled Plasma Spectrometry	SCA method *
Beryllium	by Inductively Coupled Plasma Spectrometry	SCA method *
Bicarbonate & Carbonate	Calculated from alkalinity to pH 8.3 and 4.5	SCA method
Biochemical Oxygen Demand 5, 20 or 28 day	SCA Method	SCA method
Bismuth	by Inductively Coupled Plasma Spectrometry	SCA method *
Boron	by Inductively Coupled Plasma Spectrometry	SCA method
Cadmium	by Inductively Coupled Plasma Spectrometry	SCA method *
Calcium	by Inductively Coupled Plasma Spectrometry	SCA method *
Chemical Oxygen Demand	Refluxing with sulphuric acid and potassium dichromate.	SCA method
Chloride	Ion chromatography	SCA method
Chromium	by Inductively Coupled Plasma Spectrometry	SCA method *
Chromium (Hexavalent)	Diphenyl Carbazide, Colorimetric End Point	HMSO method
Cobalt	by Inductively Coupled Plasma Spectrometry	SCA method *
Conductivity	Based on TI 10. The electrical resistance of the sample is determined in a cell of known dimensions.	SCA method
Copper	by Inductively Coupled Plasma Spectrometry	SCA method *
Cyanide (Total)	Distillation followed by colorimetric end point titration	SCA method
Cyanide Complex	Colorimetric determination	
Cyanide Free	Air stripping, colorimetric end point	Bran & Luebbe method
Dissolved Oxygen	Measurement by DO probe	SCA method
Fluoride	Ion chromatography	SCA method
Gallium	by Inductively Coupled Plasma Spectrometry	SCA method *
Indium	by Inductively Coupled Plasma Spectrometry	SCA method *
Iron	by Inductively Coupled Plasma Spectrometry	SCA method *
Lead	by Inductively Coupled Plasma Spectrometry	SCA method *
Magnesium	by Inductively Coupled Plasma Spectrometry	SCA method *

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

WATER & WASTEWATER SAMPLES INORGANIC DETERMINANDS

Determinand	Standard Specification/ Technique Used	Method Reference
Manganese	by Inductively Coupled Plasma Spectrometry	SCA method *
Mercury	by Hydride Generation	PS Analytical /SCA method
Molybdenum	by Inductively Coupled Plasma Spectrometry	SCA method *
Nickel	by Inductively Coupled Plasma Spectrometry	SCA method *
Nitrate	Continuous flow colorimetry.	SCA method
Nitrogen (Kjedahl)	Based on " Kjeldahl Nitrogen in Waters" 1987. Sulphuric acid digestion to convert nitrogen compounds to ammonium sulphate followed by distillation. The ammonia concentration is then analysed by continuous flow colorimetry.	MAFF/ADAS Book 427
Nitrite	Continuous flow colorimetry.	SCA method
pH	Glass electrode	SCA method
Phosphate (Diss.)	Sample is pretreated to convert insoluble phosphate into solution for analysis by continuous flow colorimetry.	Bran & Luebbe/SCA method
Phosphorus (total)	Sample is analysed by continuous flow colorimetry.	Bran & Luebbe/SCA method
Potassium	by Inductively Coupled Plasma Spectrometry	SCA method *
Redox Potential	Electrode	
Selenium	By Hydride Generation	PS Analytical /SCA method
Sodium	by Inductively Coupled Plasma Spectrometry	SCA method *
Sulphate	Ion chromatography	SCA method
Sulphide	Colorimetric after air stripping/absorption of H2S	SCA method
Suspended Solids	Based on SCA method. Filtration through pre-weighed glass fibre paper. The weight of recovered matter is determined by drying and reweighing at 105°C.	
Thallium	by Inductively Coupled Plasma Spectrometry	SCA method *
Thiocyanate	Colorimetric	HMSO method
Tin	by Inductively Coupled Plasma Spectrometry	SCA method *
Titanium	by Inductively Coupled Plasma Spectrometry	SCA method *
Vanadium	by Inductively Coupled Plasma Spectrometry	SCA method *
Zinc	by Inductively Coupled Plasma Spectrometry	SCA method *

*Additional Ref:Concepts, Instrumentation in Inductively Coupled Plasma. Perkin Elmer
*Atomic Emission Spectrometry, Charles B.Boss & Kenneth J. Freideen

ANALYTICAL AND ENVIRONMENTAL SERVICES
ANALYTICAL METHODS

PREPARED FOR FWS CONSULTANTS

WATER &WASTEWATER SAMPLES ORGANIC

Determinand	Standard Specification/ Technique Used	Method Reference
BTEX	Purge and Trap GCMS	EPA method
Diesel Range Organics	Extraction with DCM followed by GCFID	EPA method
Dioxins	High Resolution GC-MS using appropriate protocols	EPA method
Organophoshorous Pesticides	Soxhlet extraction followed by GC or GCMS	HMSO method
Organochlorine Pesticides	GC or GCMS	HMSO method
PCBs(7 Congeners & Total)	Solvent Extraction followed by GC-ECD	HMSO method
Pentachlorophenol	HPLC	HMSO method
Petroleum Range Organics	Purge and Trap GCFID	EPA method
Phenol	By steam distillation, colorimetric end point, expressed as monohydric phenol	SCA method
Phenols: Cresols Dimethylphenols Ethylphenols Isopropylphenols Naphthols Phenol Trimethylphenols	Methanol water extraction followed by HPLC using electro-chemical detection	British gas methods
Polynuclear Aromatic Hydrocarbons	EPA 16 by GCMS	EPA method
Polynuclear Aromatic Hydrocarbons	Total EPA 16 by GCMS	EPA method
SVOCs	Acid and base/neutral extraction with DCM followed by GCMS	EPA method
SVOC screen	Acid and base/neutral extraction with DCM followed by GCMS	EPA method
Total Petroleum hydrocarbons	By GC FID	EPA method
T P H (carbon banding)	By GC-FID	Texas method
VOCs	Purge and Trap GCMS, based on EPA Method 524.2	Based onEPA method
VOC screen	Purge and Trap GCMS (identify 10 most significant peaks)	Based onEPA method