

Appendix 1
Volatile Organics
by
Purge and Trap GC-MS

Peak	CAS No.:	Date Analysed		12/10/01	12/10/01	12/10/01
		Ref no		01-1299	01-1299	01-1299
		Sample I.D.	MDL	4D	5S	5D
		Units	µg/litre	µg/litre	µg/litre	µg/litre
1	75-71-8	Dichlorodifluoromethane	0.4	-	-	-
2	75-01-4	Vinyl Chloride	0.2	-	-	-
3	74-83-9	Bromomethane	0.3	-	-	-
4	75-69-4	Trichlorofluoromethane	0.2	-	-	-
5	75-35-4	1,1-Dichloroethene	0.3	-	-	-
6	75-09-2	Dichloromethane	0.1	<4	<4	<4
7	156-60-5	trans-1,2-Dichloroethene	0.3	-	-	-
8	75-34-3	1,1-Dichloroethane	0.3	-	-	-
9	156-59-2	cis-1,2-Dichloroethene	0.1	-	-	-
10	594-20-7	2,2-Dichloropropane	0.2	-	-	-
11	74-97-5	Bromochloromethane	0.2	-	-	-
12	67-66-3	Chloroform	0.3	-	-	-
13	71-55-6	1,1,1-Trichloroethane	0.2	-	-	-
14	563-58-6	1,1-Dichloropropene	0.3	-	-	-
15	56-23-5	Carbon Tetrachloride	0.3	-	-	-
16	107-06-2	1,2-Dichloroethane	0.2	-	-	-
17	71-43-2	Benzene	0.2	-	-	-
18	79-01-6	Trichloroethene	0.2	-	-	-
19	78-87-5	1,2-Dichloropropane	0.2	-	-	-
20	74-95-3	Dibromomethane	0.1	-	-	-
21	75-27-4	Bromodichloromethane	0.2	-	-	-
22	108-88-3	Toluene	0.2	-	-	-
23	79-00-5	1,1,2-Trichloroethane	0.3	-	-	-
24	142-28-9	1,3-Dichloropropane	0.2	-	-	-
25	127-18-4	Tetrachloroethene	0.2	-	-	-
26	124-48-1	Dibromochloromethane	0.3	-	-	-
27	106-93-4	1,2-Dibromoethane	0.2	-	-	-
28	108-90-7	Chlorobenzene	0.3	-	-	-
29	630-20-6	1,1,1,2-Tetrachloroethane	0.2	-	-	-

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		Ref no		01-1299	01-1299	01-1299
		Sample I.D.	MDL	4D	5S	5D
Peak	CAS No.:	Units	µg/l	µg/litre	µg/litre	µg/litre
30	100-41-4	Ethylbenzene	0.2	-	-	-
31	108-38-3 106-42-3	m,p-Xylene	0.4	-	-	-
32	95-47-6	o-Xylene	0.1	-	-	-
33	100-42-5	Styrene	0.1	-	-	-
34	75-25-2	Bromoform	0.4	-	-	-
35	98-82-8	Isopropylbenzene	0.2	-	-	-
36	79-34-5	1,1,2,2-Tetrachloroethane	0.4	-	-	-
37	96-18-4	1,2,3-Trichloropropane	0.4	-	-	-
38	108-86-1	Bromobenzene	0.2	-	-	-
39	103-65-1	n-Propylbenzene	0.2	-	-	-
40	95-49-8	2-Chlorotoluene	0.1	-	-	-
41	108-67-8	1,3,5-Trimethylbenzene	0.1	-	-	-
42	106-43-4	4-Chlorotoluene	0.2	-	-	-
43	98-06-6	tert-Butylbenzene	0.3	-	-	-
44	95-63-6	1,2,4-Trimethylbenzene	0.2	-	-	-
45	135-98-8	sec-Butylbenzene	0.3	-	-	-
46	99-87-6	4-Isopropyltoluene	0.2	-	-	-
47	541-73-1	1,3-Dichlorobenzene	0.4	-	-	-
48	106-46-7	1,4-Dichlorobenzene	0.3	-	-	-
49	104-51-8	n-Butylbenzene	0.5	-	-	-
50	95-50-1	1,2-Dichlorobenzene	0.2	-	-	-
51	96-12-8	1,2-Dibromo-3-chloropropane	0.2	-	-	-
52	120-82-1	1,2,4-Trichlorobenzene	0.4	-	-	-
53	87-68-3	Hexachlorobutadiene	0.7	-	-	-
54	91-20-3	Naphthalene	0.5	-	-	-
55	87-61-6	1,2,3-Trichlorobenzene	0.7	-	-	-

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Peak	CAS No.:	Date Analysed		12/10/01	12/10/01	12/10/01	12/10/01
		Ref no		01-1299	01-1299	01-1299	01-1299
		Sample I.D.		6S	6D	7S	7D
		Units	MDL	µg/litre	µg/litre	µg/litre	µg/litre
1	75-71-8	Dichlorodifluoromethane	0.4	-	-	-	-
2	75-01-4	Vinyl Chloride	0.2	-	-	-	-
3	74-83-9	Bromomethane	0.3	-	-	-	-
4	75-69-4	Trichlorofluoromethane	0.2	-	-	-	-
5	75-35-4	1,1-Dichloroethene	0.3	-	-	-	-
6	75-09-2	Dichloromethane	0.1	<4	<4	<4	<4
7	156-60-5	trans-1,2-Dichloroethene	0.3	-	-	-	-
8	75-34-3	1,1-Dichloroethane	0.3	-	-	-	-
9	156-59-2	cis-1,2-Dichloroethene	0.1	-	-	-	-
10	594-20-7	2,2-Dichloropropane	0.2	-	-	-	-
11	74-97-5	Bromochloromethane	0.2	-	-	-	-
12	67-66-3	Chloroform	0.3	-	-	-	-
13	71-55-6	1,1,1-Trichloroethane	0.2	-	-	-	-
14	563-58-6	1,1-Dichloropropene	0.3	-	-	-	-
15	56-23-5	Carbon Tetrachloride	0.3	-	-	-	-
16	107-06-2	1,2-Dichloroethane	0.2	-	-	-	-
17	71-43-2	Benzene	0.2	-	-	-	-
18	79-01-6	Trichloroethene	0.2	-	-	-	-
19	78-87-5	1,2-Dichloropropane	0.2	-	-	-	-
20	74-95-3	Dibromomethane	0.1	-	-	-	-
21	75-27-4	Bromodichloromethane	0.2	-	-	-	-
22	108-88-3	Toluene	0.2	-	-	-	-
23	79-00-5	1,1,2-Trichloroethane	0.3	-	-	-	-
24	142-28-9	1,3-Dichloropropane	0.2	-	-	-	-
25	127-18-4	Tetrachloroethene	0.2	-	-	-	-
26	124-48-1	Dibromochloromethane	0.3	-	-	-	-
27	106-93-4	1,2-Dibromoethane	0.2	-	-	-	-
28	108-90-7	Chlorobenzene	0.3	-	-	-	-
29	630-20-6	1,1,1,2-Tetrachloroethane	0.2	-	-	-	-

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		Ref no		01-1299	01-1299	01-1299	01-1299
		Sample I.D.	MDL	6S	6D	7S	7D
Peak	CAS No.:	Units	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
30	100-41-4	Ethylbenzene	0.2	-	-	-	-
31	108-38-3 106-42-3	m,p-Xylene	0.4	-	-	-	-
32	95-47-6	o-Xylene	0.1	-	-	-	-
33	100-42-5	Styrene	0.1	-	-	-	-
34	75-25-2	Bromoform	0.4	-	-	-	-
35	98-82-8	Isopropylbenzene	0.2	-	-	-	-
36	79-34-5	1,1,2,2-Tetrachloroethane	0.4	-	-	-	-
37	96-18-4	1,2,3-Trichloropropane	0.4	-	-	-	-
38	108-86-1	Bromobenzene	0.2	-	-	-	-
39	103-65-1	n-Propylbenzene	0.2	-	-	-	-
40	95-49-8	2-Chlorotoluene	0.1	-	-	-	-
41	108-67-8	1,3,5-Trimethylbenzene	0.1	-	-	<1	<1
42	106-43-4	4-Chlorotoluene	0.2	-	-	-	-
43	98-06-6	tert-Butylbenzene	0.3	-	-	-	-
44	95-63-6	1,2,4-Trimethylbenzene	0.2	-	-	-	-
45	135-98-8	sec-Butylbenzene	0.3	-	-	-	-
46	99-87-6	4-Isopropyltoluene	0.2	-	-	-	-
47	541-73-1	1,3-Dichlorobenzene	0.4	-	-	-	-
48	106-46-7	1,4-Dichlorobenzene	0.3	-	-	-	-
49	104-51-8	n-Butylbenzene	0.5	-	-	-	-
50	95-50-1	1,2-Dichlorobenzene	0.2	-	-	-	-
51	96-12-8	1,2-Dibromo-3-chloropropane	0.2	-	-	-	-
52	120-82-1	1,2,4-Trichlorobenzene	0.4	-	-	-	-
53	87-68-3	Hexachlorobutadiene	0.7	-	-	-	-
54	91-20-3	Naphthalene	0.5	-	-	-	-
55	87-61-6	1,2,3-Trichlorobenzene	0.7	-	-	-	-

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		Date Analysed		12/10/01	12/10/01	12/10/01	12/10/01
		Ref no		01-1299	01-1299	01-1299	01-1299
		Sample I.D.	MDL	8S	8D	9S	9D
Peak	CAS No.:	Units	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
1	75-71-8	Dichlorodifluoromethane	0.4	-	-	-	-
2	75-01-4	Vinyl Chloride	0.2	-	-	-	-
3	74-83-9	Bromomethane	0.3	-	-	-	-
4	75-69-4	Trichlorofluoromethane	0.2	-	-	-	-
5	75-35-4	1,1-Dichloroethene	0.3	-	-	-	-
6	75-09-2	Dichloromethane	0.1	<4	<4	<4	<4
7	156-60-5	trans-1,2-Dichloroethene	0.3	-	-	-	-
8	75-34-3	1,1-Dichloroethane	0.3	-	-	-	-
9	156-59-2	cis-1,2-Dichloroethene	0.1	-	-	-	-
10	594-20-7	2,2-Dichloropropane	0.2	-	-	-	-
11	74-97-5	Bromochloromethane	0.2	-	-	-	-
12	67-66-3	Chloroform	0.3	-	-	-	-
13	71-55-6	1,1,1-Trichloroethane	0.2	-	-	-	-
14	563-58-6	1,1-Dichloropropene	0.3	-	-	-	-
15	56-23-5	Carbon Tetrachloride	0.3	-	-	-	-
16	107-06-2	1,2-Dichloroethane	0.2	-	-	-	-
17	71-43-2	Benzene	0.2	-	-	-	-
18	79-01-6	Trichloroethene	0.2	-	-	-	-
19	78-87-5	1,2-Dichloropropane	0.2	-	-	-	-
20	74-95-3	Dibromomethane	0.1	-	-	-	-
21	75-27-4	Bromodichloromethane	0.2	-	-	-	-
22	108-88-3	Toluene	0.2	-	-	-	-
23	79-00-5	1,1,2-Trichloroethane	0.3	-	-	-	-
24	142-28-9	1,3-Dichloropropane	0.2	-	-	-	-
25	127-18-4	Tetrachloroethene	0.2	-	-	-	-
26	124-48-1	Dibromochloromethane	0.3	-	-	-	-
27	106-93-4	1,2-Dibromoethane	0.2	-	-	-	-
28	108-90-7	Chlorobenzene	0.3	-	-	-	-
29	630-20-6	1,1,1,2-Tetrachloroethane	0.2	-	-	-	-

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Peak	CAS No.:	Date Analysed		12/10/01	12/10/01	12/10/01	12/10/01
		Ref no		01-1299	01-1299	01-1299	01-1299
		Sample I.D.	MDL	8S	8D	9S	9D
		Units	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
30	100-41-4	Ethylbenzene	0.2	-	-	-	-
31	108-38-3 106-42-3	m,p-Xylene	0.4	-	-	-	-
32	95-47-6	o-Xylene	0.1	-	-	-	-
33	100-42-5	Styrene	0.1	-	-	-	-
34	75-25-2	Bromoform	0.4	-	-	-	-
35	98-82-8	Isopropylbenzene	0.2	-	-	-	-
36	79-34-5	1,1,2,2-Tetrachloroethane	0.4	-	-	-	-
37	96-18-4	1,2,3-Trichloropropane	0.4	-	-	-	-
38	108-86-1	Bromobenzene	0.2	-	-	-	-
39	103-65-1	n-Propylbenzene	0.2	-	-	-	-
40	95-49-8	2-Chlorotoluene	0.1	-	-	-	-
41	108-67-8	1,3,5-Trimethylbenzene	0.1	-	-	-	-
42	106-43-4	4-Chlorotoluene	0.2	-	-	-	-
43	98-06-6	tert-Butylbenzene	0.3	-	-	-	-
44	95-63-6	1,2,4-Trimethylbenzene	0.2	-	-	-	-
45	135-98-8	sec-Butylbenzene	0.3	-	-	-	-
46	99-87-6	4-Isopropyltoluene	0.2	-	-	-	-
47	541-73-1	1,3-Dichlorobenzene	0.4	-	-	-	-
48	106-46-7	1,4-Dichlorobenzene	0.3	-	-	-	-
49	104-51-8	n-Butylbenzene	0.5	-	-	-	-
50	95-50-1	1,2-Dichlorobenzene	0.2	-	-	-	-
51	96-12-8	1,2-Dibromo-3-chloropropane	0.2	-	-	-	-
52	120-82-1	1,2,4-Trichlorobenzene	0.4	-	-	-	-
53	87-68-3	Hexachlorobutadiene	0.7	-	-	-	-
54	91-20-3	Naphthalene	0.5	-	-	-	<1
55	87-61-6	1,2,3-Trichlorobenzene	0.7	-	-	-	-

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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed			12/10/01	12/10/01	12/10/01
Ref no			01-1299	01-1299	01-1299
Sample I.D		MDL	1S	2S	2D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre
62-75-9	N-Nitrosodimethylamine	2	-	-	-
111-44-4	bis(2-Chloroethyl)ether	1	-	-	-
108-95-2	Phenol	1	-	-	-
95-57-8	2-Chlorophenol	1	-	-	-
541-73-1	1,3-Dichlorobenzene	1	-	-	-
106-46-7	1,4-Dichlorobenzene	1	-	-	-
95-50-1	1,2-Dichlorobenzene	1	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	2	-	-	-
95-48-7	2-Methylphenol	2	-	-	-
67-72-1	Hexachloroethane	1	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-
106-44-5	4-Methylphenol	3	-	-	-
98-95-3	Nitrobenzene	1	-	-	-
78-59-1	Isophorone	3	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	-	-
111-91-1	bis(2-Chloroethoxy)methane	2	-	-	-
120-83-2	2,4-Dichlorophenol	2	-	-	-
120-82-1	1,2,4-Trichlorobenzene	1	-	-	-
91-20-3	Naphthalene	1	-	-	-
106-47-8	4-Chloroaniline	2	-	-	-
87-68-3	Hexachlorobutadiene	1	-	-	-
59-50-7	4-Chloro-3-methylphenol	3	-	-	-
91-57-6	2-Methylnaphthalene	2	-	-	-
77-47-4	Hexachlorocyclopentadiene	4	-	-	-
88-06-2	2,4,6-Trichlorophenol	1	-	-	-
95-95-4	2,4,5-Trichlorophenol	2	-	-	-
91-58-7	2-Chloronaphthalene	1	-	-	-
88-74-4	2-Nitroaniline	1	-	-	-
208-96-8	Acenaphthylene	1	-	-	-
131-11-3	Dimethylphthalate	2	-	-	-
606-20-2	2,6-Dinitrotoluene	2	-	-	-

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NIL

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Semi-volatile organics by GC-MS

Date Analysed			12/10/01	12/10/01	12/10/01
Ref no			01-1299	01-1299	01-1299
Sample I.D		MDL	1S	2S	2D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre
83-32-9	Acenaphthene	1	-	-	-
99-09-2	3-Nitroaniline	4	-	-	-
51-28-5	2,4-Dinitrophenol	4	-	-	-
132-64-9	Dibenzofuran	1	-	-	-
121-14-2	2,4-Dinitrotoluene	3	-	-	-
100-02-7	4-Nitrophenol	8	-	-	-
86-73-7	Fluorene	2	-	-	-
7005-72-3	4-Chlorophenyl-phenylether	2	-	-	-
84-66-2	Diethylphthalate	3	-	-	-
100-01-6	4-Nitroaniline	7	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	5	-	-	-
103-33-3	Azobenzene	1	-	-	-
101-55-3	4-Bromophenyl-phenylether	2	-	-	-
118-74-1	Hexachlorobenzene	2	-	-	-
87-86-5	Pentachlorophenol	4	-	-	-
85-01-8	Phenanthrene	1	-	-	-
120-12-7	Anthracene	1	-	-	2
86-74-8	Carbazole	2	-	-	-
84-74-2	Di-n-butylphthalate	4	-	-	-
206-44-0	Fluoranthene	3	-	-	20
129-00-0	Pyrene	9	-	-	15
85-68-7	Butylbenzylphthalate	6	-	-	-
56-55-3	Benzo[a]anthracene	1	-	-	6
218-01-9	Chrysene	1	-	-	5
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	-	-
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2 & 207-08-9	Benzo[b & k]fluoranthene	2	-	-	4
50-32-8	Benzo[a]pyrene	1	-	-	4
193-39-5	Indeno[1,2,3-cd]pyrene	3	-	-	3
53-70-3	Dibenz[a,h]anthracene	3	-	-	-
191-24-2	Benzo[g,h,i]perylene	4	-	-	-

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NIL

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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed		12/10/01	12/10/01	26/10/01	15/10/01
Ref no		01-1299	01-1299	01-1299	01-1299
Sample I.D	MDL	3S	3D	3D Repeat	4S
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre
62-75-9	N-Nitrosodimethylamine	2	-	-	-
111-44-4	bis(2-Chloroethyl)ether	1	-	-	-
108-95-2	Phenol	1	-	-	-
95-57-8	2-Chlorophenol	1	-	-	-
541-73-1	1,3-Dichlorobenzene	1	-	-	-
106-46-7	1,4-Dichlorobenzene	1	-	-	-
95-50-1	1,2-Dichlorobenzene	1	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	2	-	-	-
95-48-7	2-Methylphenol	2	-	-	-
67-72-1	Hexachloroethane	1	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-
106-44-5	4-Methylphenol	3	-	-	-
98-95-3	Nitrobenzene	1	-	-	-
78-59-1	Isophorone	3	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	-	-
111-91-1	bis(2-Chloroethoxy)methane	2	-	-	-
120-83-2	2,4-Dichlorophenol	2	-	-	-
120-82-1	1,2,4-Trichlorobenzene	1	-	-	-
91-20-3	Naphthalene	1	-	-	-
106-47-8	4-Chloroaniline	2	-	-	-
87-68-3	Hexachlorobutadiene	1	-	-	-
59-50-7	4-Chloro-3-methylphenol	3	-	-	-
91-57-6	2-Methylnaphthalene	2	-	-	-
77-47-4	Hexachlorocyclopentadiene	4	-	-	-
88-06-2	2,4,6-Trichlorophenol	1	-	-	-
95-95-4	2,4,5-Trichlorophenol	2	-	-	-
91-58-7	2-Chloronaphthalene	1	-	-	-
88-74-4	2-Nitroaniline	1	-	-	-
208-96-8	Acenaphthylene	1	-	-	-
131-11-3	Dimethylphthalate	2	-	-	-
606-20-2	2,6-Dinitrotoluene	2	-	-	-

“ - ” = < Method detection limit (MDL)



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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed			12/10/01	12/10/01	26/10/01	15/10/01
Ref no			01-1299	01-1299	01-1299	01-1299
Sample I.D		MDL	3S	3D	3D Repeat	4S
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
83-32-9	Acenaphthene	1	-	-	-	-
99-09-2	3-Nitroaniline	4	-	-	-	-
51-28-5	2,4-Dinitrophenol	4	-	-	-	-
132-64-9	Dibenzofuran	1	-	-	-	-
121-14-2	2,4-Dinitrotoluene	3	-	-	-	-
100-02-7	4-Nitrophenol	8	-	-	-	-
86-73-7	Fluorene	2	-	-	-	-
7005-72-3	4-Chlorophenyl-phenylether	2	-	-	-	-
84-66-2	Diethylphthalate	3	-	-	-	-
100-01-6	4-Nitroaniline	7	-	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	5	-	-	-	-
103-33-3	Azobenzene	1	-	-	-	-
101-55-3	4-Bromophenyl-phenylether	2	-	-	-	-
118-74-1	Hexachlorobenzene	2	-	-	-	-
87-86-5	Pentachlorophenol	4	-	-	-	-
85-01-8	Phenanthrene	1	2	-	-	-
120-12-7	Anthracene	1	-	-	-	-
86-74-8	Carbazole	2	-	-	-	-
84-74-2	Di-n-butylphthalate	4	-	-	-	-
206-44-0	Fluoranthene	3	11	-	-	-
129-00-0	Pyrene	9	-	-	-	-
85-68-7	Butylbenzylphthalate	6	-	-	-	-
56-55-3	Benzo[a]anthracene	1	4	-	-	-
218-01-9	Chrysene	1	4	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	-	-	-
117-84-0	Di-n-octylphthalate	6	-	-	-	-
205-99-2 & 207-08-9	Benzo[b & k]fluoranthene	2	6	-	-	-
50-32-8	Benzo[a]pyrene	1	4	-	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	3	4	-	-	-
53-70-3	Dibenz[a,h]anthracene	3	-	-	-	-
191-24-2	Benzo[g,h,i]perylene	4	-	-	-	-

" - " = < Method detection limit (MDL)

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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed			15/10/01	13/10/01	16/10/01
Ref no			01-1299	01-1299	01-1299
Sample I.D		MDL	4D	5S	5D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre
62-75-9	N-Nitrosodimethylamine	2	-	-	-
111-44-4	bis(2-Chloroethyl)ether	1	-	-	-
108-95-2	Phenol	1	-	-	-
95-57-8	2-Chlorophenol	1	-	-	-
541-73-1	1,3-Dichlorobenzene	1	-	-	-
106-46-7	1,4-Dichlorobenzene	1	-	-	-
95-50-1	1,2-Dichlorobenzene	1	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	2	-	-	-
95-48-7	2-Methylphenol	2	-	-	-
67-72-1	Hexachloroethane	1	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-
106-44-5	4-Methylphenol	3	-	-	-
98-95-3	Nitrobenzene	1	-	-	-
78-59-1	Isophorone	3	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	-	-
111-91-1	bis(2-Chloroethoxy)methane	2	-	-	-
120-83-2	2,4-Dichlorophenol	2	-	-	-
120-82-1	1,2,4-Trichlorobenzene	1	-	-	-
91-20-3	Naphthalene	1	-	-	-
106-47-8	4-Chloroaniline	2	-	-	-
87-68-3	Hexachlorobutadiene	1	-	-	-
59-50-7	4-Chloro-3-methylphenol	3	-	-	-
91-57-6	2-Methylnaphthalene	2	-	-	-
77-47-4	Hexachlorocyclopentadiene	4	-	-	-
88-06-2	2,4,6-Trichlorophenol	1	-	-	-
95-95-4	2,4,5-Trichlorophenol	2	-	-	-
91-58-7	2-Chloronaphthalene	1	-	-	-
88-74-4	2-Nitroaniline	1	-	-	-
208-96-8	Acenaphthylene	1	-	-	-
131-11-3	Dimethylphthalate	2	-	-	-
606-20-2	2,6-Dinitrotoluene	2	-	-	-

" - " = < Method detection limit (MDL)

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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed			15/10/01	13/10/01	16/10/01
Ref no			01-1299	01-1299	01-1299
Sample I.D		MDL	4D	5S	5D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre
83-32-9	Acenaphthene	1	-	-	-
99-09-2	3-Nitroaniline	4	-	-	-
51-28-5	2,4-Dinitrophenol	4	-	-	-
132-64-9	Dibenzofuran	1	-	-	-
121-14-2	2,4-Dinitrotoluene	3	-	-	-
100-02-7	4-Nitrophenol	8	-	-	-
86-73-7	Fluorene	2	-	-	-
7005-72-3	4-Chlorophenyl-phenylether	2	-	-	-
84-66-2	Diethylphthalate	3	-	-	-
100-01-6	4-Nitroaniline	7	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	5	-	-	-
103-33-3	Azobenzene	1	-	-	-
101-55-3	4-Bromophenyl-phenylether	2	-	-	-
118-74-1	Hexachlorobenzene	2	-	-	-
87-86-5	Pentachlorophenol	4	-	-	-
85-01-8	Phenanthrene	1	-	-	-
120-12-7	Anthracene	1	-	-	-
86-74-8	Carbazole	2	-	-	-
84-74-2	Di-n-butylphthalate	4	-	-	-
206-44-0	Fluoranthene	3	-	-	-
129-00-0	Pyrene	9	-	-	-
85-68-7	Butylbenzylphthalate	6	-	-	-
56-55-3	Benzo[a]anthracene	1	-	-	-
218-01-9	Chrysene	1	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	-	-
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2 & 207-08-9	Benzo[b & k]fluoranthene	2	-	-	-
50-32-8	Benzo[a]pyrene	1	-	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	3	-	-	-
53-70-3	Dibenz[a,h]anthracene	3	-	-	-
191-24-2	Benzo[g,h,i]perylene	4	-	-	-

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Appendix 2
Semi-volatile organics
by
GC-MS

Date Analysed			13/10/01	15/10/01	15/10/01	15/10/01
Ref no			01-1299	01-1299	01-1299	01-1299
Sample ID		MDL	6S	6D	7S	7D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
62-75-9	N-Nitrosodimethylamine	2	-	-	-	-
111-44-4	bis(2-Chloroethyl)ether	1	-	-	-	-
108-95-2	Phenol	1	-	-	-	-
95-57-8	2-Chlorophenol	1	-	-	-	-
541-73-1	1,3-Dichlorobenzene	1	-	-	-	-
106-46-7	1,4-Dichlorobenzene	1	-	-	-	-
95-50-1	1,2-Dichlorobenzene	1	-	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	2	-	-	-	-
95-48-7	2-Methylphenol	2	-	-	-	-
67-72-1	Hexachloroethane	1	-	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-	-
106-44-5	4-Methylphenol	3	-	-	-	-
98-95-3	Nitrobenzene	1	-	-	-	-
78-59-1	Isophorone	3	-	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	-	-	-
111-91-1	bis(2-Chloroethoxy)methane	2	-	-	-	-
120-83-2	2,4-Dichlorophenol	2	-	-	-	-
120-82-1	1,2,4-Trichlorobenzene	1	-	-	-	-
91-20-3	Naphthalene	1	-	-	-	4
106-47-8	4-Chloroaniline	2	-	-	-	-
87-68-3	Hexachlorobutadiene	1	-	-	-	-
59-50-7	4-Chloro-3-methylphenol	3	-	-	-	-
91-57-6	2-Methylnaphthalene	2	-	-	-	-
77-47-4	Hexachlorocyclopentadiene	4	-	-	-	-
88-06-2	2,4,6-Trichlorophenol	1	-	-	-	-
95-95-4	2,4,5-Trichlorophenol	2	-	-	-	-
91-58-7	2-Chloronaphthalene	1	-	-	-	-
88-74-4	2-Nitroaniline	1	-	-	-	-
208-96-8	Acenaphthylene	1	-	-	-	3
131-11-3	Dimethylphthalate	2	-	-	-	-
606-20-2	2,6-Dinitrotoluene	2	-	-	-	-

“ - “ = < Method detection limit (MDL)

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Appendix 2
 Semi-volatile organics
 by
 GC-MS

Date Analysed			13/10/01	15/10/01	15/10/01	15/10/01
Ref no			01-1299	01-1299	01-1299	01-1299
Sample I.D		MDL	6S	6D	7S	7D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
83-32-9	Acenaphthene	1	-	-	-	3
99-09-2	3-Nitroaniline	4	-	-	-	-
51-28-5	2,4-Dinitrophenol	4	-	-	-	-
132-64-9	Dibenzofuran	1	-	-	-	4
121-14-2	2,4-Dinitrotoluene	3	-	-	-	-
100-02-7	4-Nitrophenol	8	-	-	-	-
86-73-7	Fluorene	2	-	-	-	8
7005-72-3	4-Chlorophenyl-phenylether	2	-	-	-	-
84-66-2	Diethylphthalate	3	-	-	-	-
100-01-6	4-Nitroaniline	7	-	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	5	-	-	-	-
103-33-3	Azobenzene	1	-	-	-	-
101-55-3	4-Bromophenyl-phenylether	2	-	-	-	-
118-74-1	Hexachlorobenzene	2	-	-	-	-
87-86-5	Pentachlorophenol	4	-	-	-	-
85-01-8	Phenanthrene	1	-	4	-	13
120-12-7	Anthracene	1	-	3	-	8
86-74-8	Carbazole	2	-	-	-	-
84-74-2	Di-n-butylphthalate	4	-	7	-	-
206-44-0	Fluoranthene	3	-	17	-	37
129-00-0	Pyrene	9	-	8	-	18
85-68-7	Butylbenzylphthalate	6	-	-	-	-
56-55-3	Benzo[a]anthracene	1	-	5	-	12
218-01-9	Chrysene	1	-	5	-	12
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	15	-	-
117-84-0	Di-n-octylphthalate	6	-	-	-	-
205-99-2 & 207-08-9	Benzo[b]&[k]fluoranthene	2	-	7	-	19
50-32-8	Benzo[a]pyrene	1	-	4	-	11
193-39-5	Indeno[1,2,3-cd]pyrene	3	-	3	-	6
53-70-3	Dibenz[a,h]anthracene	3	-	-	-	-
191-24-2	Benzo[g,h,i]perylene	4	-	-	-	5

“ - ” = < Method detection limit (MDL)

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Appendix 2
 Semi-volatile organics
 by
 GC-MS

Date Analysed			15/10/01	15/10/01	15/10/01	15/10/01
Ref no			01-1299	01-1299	01-1299	01-1299
Sample ID		MDL	8S	8D	9S	9D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
62-75-9	N-Nitrosodimethylamine	2	-	-	-	-
111-44-4	bis(2-Chloroethyl)ether	1	-	-	-	-
108-95-2	Phenol	1	-	-	-	-
95-57-8	2-Chlorophenol	1	-	-	-	-
541-73-1	1,3-Dichlorobenzene	1	-	-	-	-
106-46-7	1,4-Dichlorobenzene	1	-	-	-	-
95-50-1	1,2-Dichlorobenzene	1	-	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	2	-	-	-	-
95-48-7	2-Methylphenol	2	-	-	-	-
67-72-1	Hexachloroethane	1	-	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-	-
106-44-5	4-Methylphenol	3	-	-	-	-
98-95-3	Nitrobenzene	1	-	-	-	-
78-59-1	Isophorone	3	-	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	-	-	-
111-91-1	bis(2-Chloroethoxy)methane	2	-	-	-	-
120-83-2	2,4-Dichlorophenol	2	-	-	-	-
120-82-1	1,2,4-Trichlorobenzene	1	-	-	-	-
91-20-3	Naphthalene	1	-	-	-	-
106-47-8	4-Chloroaniline	2	-	-	-	-
87-68-3	Hexachlorobutadiene	1	-	-	-	-
59-50-7	4-Chloro-3-methylphenol	3	-	-	-	-
91-57-6	2-Methylnaphthalene	2	-	-	-	-
77-47-4	Hexachlorocyclopentadiene	4	-	-	-	-
88-06-2	2,4,6-Trichlorophenol	1	-	-	-	-
95-95-4	2,4,5-Trichlorophenol	2	-	-	-	-
91-58-7	2-Chloronaphthalene	1	-	-	-	-
88-74-4	2-Nitroaniline	1	-	-	-	-
208-96-8	Acenaphthylene	1	-	-	-	-
131-11-3	Dimethylphthalate	2	-	-	-	-
606-20-2	2,6-Dinitrotoluene	2	-	-	-	-

“ - ” = < Method detection limit (MDL)

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Appendix 2

Semi-volatile organics by GC-MS

Date Analysed			15/10/01	15/10/01	15/10/01	15/10/01
Ref no			01-1299	01-1299	01-1299	01-1299
Sample I.D		MDL	8S	8D	9S	9D
CAS No.:	COMPONENTS	µg/litre	µg/litre	µg/litre	µg/litre	µg/litre
83-32-9	Acenaphthene	1	-	-	-	-
99-09-2	3-Nitroaniline	4	-	-	-	-
51-28-5	2,4-Dinitrophenol	4	-	-	-	-
132-64-9	Dibenzofuran	1	-	-	-	-
121-14-2	2,4-Dinitrotoluene	3	-	-	-	-
100-02-7	4-Nitrophenol	8	-	-	-	-
86-73-7	Fluorene	2	-	-	-	-
7005-72-3	4-Chlorophenyl-phenylether	2	-	-	-	-
84-66-2	Diethylphthalate	3	-	-	-	-
100-01-6	4-Nitroaniline	7	-	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	5	-	-	-	-
103-33-3	Azobenzene	1	-	-	-	-
101-55-3	4-Bromophenyl-phenylether	2	-	-	-	-
118-74-1	Hexachlorobenzene	2	-	-	-	-
87-86-5	Pentachlorophenol	4	-	-	-	-
85-01-8	Phenanthrene	1	-	4	-	-
120-12-7	Anthracene	1	-	3	-	-
86-74-8	Carbazole	2	-	-	-	-
84-74-2	Di-n-butylphthalate	4	-	-	-	-
206-44-0	Fluoranthene	3	-	18	-	-
129-00-0	Pyrene	9	-	-	-	-
85-68-7	Butylbenzylphthalate	6	-	-	-	-
56-55-3	Benzo[a]anthracene	1	-	5	-	-
218-01-9	Chrysene	1	-	5	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	-	-	-
117-84-0	Di-n-octylphthalate	6	-	-	-	-
205-99-2 & 207-08-9	Benzo[b & k]fluoranthene	2	-	6	-	-
50-32-8	Benzo[a]pyrene	1	-	5	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	3	-	3	-	-
53-70-3	Dibenz[a,h]anthracene	3	-	-	-	-
191-24-2	Benzo[g,h,i]perylene	4	-	-	-	-

" - " = < Method detection limit (MDL)

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Appendix 3

Semi-volatile organics by GC-MS

DATE ANALYSED		22/10/01
OUR REFERENCE		011299
SAMPLE ID		6D RESIDUE
CAS No.:	COMPONENTS	µg/kg
62-75-9	N-Nitrosodimethylamine	-
111-44-4	bis(2-Chloroethyl)ether	-
108-95-2	Phenol	45
95-57-8	2-Chlorophenol	-
541-73-1	1,3-Dichlorobenzene	-
106-46-7	1,4-Dichlorobenzene	-
95-50-1	1,2-Dichlorobenzene	-
108-60-1	bis(2-chloroisopropyl)ether	-
95-48-7	2-Methylphenol	-
67-72-1	Hexachloroethane	-
621-64-7	N-Nitroso-di-n-propylamine	-
106-44-5	4-Methylphenol	-
98-95-3	Nitrobenzene	-
78-59-1	Isophorone	-
88-75-5	2-Nitrophenol	-
105-67-9	2,4-Dimethylphenol	-
111-91-1	bis(2-Chloroethoxy)methane	-
120-83-2	2,4-Dichlorophenol	-
120-82-1	1,2,4-Trichlorobenzene	-
91-20-3	Naphthalene	28
106-47-8	4-Chloroaniline	-
87-68-3	Hexachlorobutadiene	-
59-50-7	4-Chloro-3-methylphenol	-
91-57-6	2-Methylnaphthalene	-
77-47-4	Hexachlorocyclopentadiene	-
88-06-2	2,4,6-Trichlorophenol	-
95-95-4	2,4,5-Trichlorophenol	-
91-58-7	2-Chloronaphthalene	-
88-74-4	2-Nitroaniline	-
208-96-8	Acenaphthylene	42
131-11-3	Dimethylphthalate	-
606-20-2	2,6-Dinitrotoluene	-

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Appendix 3

Semi-volatile organics by GC-MS

DATE ANALYSED		22/10/01
OUR REFERENCE		Q11299
SAMPLE ID		6D RESIDUE
CAS No.:	COMPONENTS	µg/kg
83-32-9	Acenaphthene	23
99-09-2	3-Nitroaniline	-
51-28-5	2,4-Dinitrophenol	-
132-64-9	Dibenzofuran	29
121-14-2	2,4-Dinitrotoluene	-
100-02-7	4-Nitrophenol	-
86-73-7	Fluorene	41
7005-72-3	4-Chlorophenyl-phenylether	-
84-66-2	Diethylphthalate	-
100-01-6	4-Nitroaniline	-
534-52-1	4,6-Dinitro-2-methylphenol	-
103-33-3	Azobenzene	-
101-55-3	4-Bromophenyl-phenylether	-
118-74-1	Hexachlorobenzene	-
87-86-5	Pentachlorophenol	-
85-01-8	Phenanthrene	180
120-12-7	Anthracene	68
86-74-8	Carbazole	-
84-74-2	Di-n-butylphthalate	11
206-44-0	Fluoranthene	610
129-00-0	Pyrene	240
85-68-7	Butylbenzylphthalate	-
56-55-3	Benzo[a]anthracene	260
218-01-9	Chrysene	270
117-81-7	bis(2-Ethylhexyl)phthalate	9
117-84-0	Di-n-octylphthalate	-
205-99-2	Benzo[b]fluoranthene	290
207-08-9	Benzo[k]fluoranthene	190
50-32-8	Benzo[a]pyrene	230
193-39-5	Indeno[1,2,3-cd]pyrene	160
53-70-3	Dibenz[a,h]anthracene	36
191-24-2	Benzo[g,h,i]perylene	120

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Appendix 4

Non-target compounds by GC-MS

SAMPLE ID		2D
COMPOUNDS	CAS #	ug/l
Benzo[c]Thiopene	270-82-6	5
2,4 dimethyl Quinoline	1198-37-4	5
Benzo[b]Thiopene	95-15-8	6
1,1-Bis(p-tolyl)ethane		5
Acridine	260-94-6	5
4H-Cyclopenta[def]phenanthrene	203-64-5	8
Cyclopenta[def]phenanthrenone	5737-13-3	3
9-Anthracenecarbonitrile	1210-12-4	3
Indeno(1,2,3-ij)isoquinoline	206-56-4	5
11H-Benzo[b]fluorene	243-17-4	4

SAMPLE ID		3S
COMPOUNDS	CAS #	ug/l
2-Ethylhexanoic acid	149-57-5	19
Tetraethylene glycol	112-60-7	8
Triethylene glycol	112-27-6	8
Heptadecane	629-78-7	3
Hexadecanoic acid	57-10-3	4
Sulfur	105044-50-0	27
Cyclopenta[def]phenanthrenone	5737-13-3	3
9-Anthracenecarbonitrile	1210-12-4	4

SAMPLE ID		4D
COMPOUNDS	CAS #	ug/l
Triethylene glycol	112-27-6	25
Hexadecanoic acid	57-10-3	3
Cyclopenta[def]phenanthrenone	5737-13-3	3
2-Azafluoranthene		2
9-Anthracenecarbonitrile	1210-12-4	3

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Appendix 4

Non-target compounds by GC-MS

SAMPLE ID		5D
COMPOUNDS	CAS #	ug/l
Tetraethylene glycol	112-60-7	5
Triethylene glycol	112-27-6	5
Cyclopenta[def]phenanthrenone	5737-13-3	4

SAMPLE ID		6D
COMPOUNDS	CAS #	ug/l
2-ethyl hexanoic acid	149-57-5	6
Triethylene glycol	112-27-6	10
Cyclotetradecane	295-17-0	5
Sulfur	105044-50-0	24
1-Octadecene	112-88-9	6
1-Heptadecanol, acetate	822-20-8	9
2.5.8.11.14-Pentaoxahexadecan-16-ol	23778-52-1	30
Docosane	629-97-0	6
2.6.10.14.18.22-Tetracosahexaene	7683-64-9	22

SAMPLE ID		7D
COMPOUNDS	CAS #	ug/l
2.2.4.6.6-Pentamethyl-heptane	13475-82-6	22
2-ethyl hexanol	104-76-7	160
2-ethyl hexanoic acid	149-57-5	36
Dodecane	112-40-3	11
Benzu[c]thiophene	0270-82-6	11
Tetraethylene glycol	112-60-7	18
Triethylene glycol	112-27-6	22
2.5-dimethyl-undecane	17301-22-3	79
Hexadecanoic acid	57-10-3	28
Sulfur	105044-50-0	110
Octadecane	593-45-3	18

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Appendix 4

Non-target compounds by GC-MS

SAMPLE ID		8D
COMPOUNDS	CAS #	ug/l
2-Ehtylhexanoic Acid	149-57-5	32
Tetraethylene glycol	112-60-7	8
Triethylene glycol	112-27-6	8
Benzothiophene	0270-82-6	3
Cyclopenta[def]phenanthrene	203-64-5	3
Sulfur	105044-50-0	27
Cyclopenta[def]phenanthrenone	5737-13-3	5
2-Azafluoranthene		4
9-Anthracenecarbonitrile	1210-12-4	6
11H-Benzo[b]fluorene	243-17-4-	3

SAMPLE ID		9D
COMPOUNDS	CAS #	ug/l
2-Azafluoranthene		3

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DAM 10: LABORATORY ANALYSIS

SEDIMENTS

LAKEFIELD RESEARCH AFRICA (Pty) LIMITED

Reg. No.1948/28709/07

Directors: South Africa - Heinrich Williams Canada - Larry E. Seely, Christopher A. Fleming, Robin K. MacLean

58 Melvill Street, Booysens, Johannesburg 2091

P.O. Box 82582 Southdale 2135

Phone : +27 (0) 11 680 3466 Fax : +27 (0) 11 433 3654

No.	Sample ID	Al g/t	As g/t	Cr g/t	Cd g/t	Ba g/t	Pb g/t	Co g/t	Cu g/t
10	Sample 2	1600	< 50	480	< 10	4.4	< 100	< 10	11
11	Sample 3	1500	< 50	200	< 10	< 2.0	< 100	< 10	< 10
12	Sample 3	1600	< 50	210	< 10	13	< 100	< 10	< 10
13	Sample 4	2100	< 50	210	< 10	30	< 100	< 10	23
14	Sample 4	2400	< 50	210	< 10	28	< 100	< 10	12
15	Sample 5	2000	< 50	160	< 10	14	< 100	< 10	11
16	Sample 5	2000	< 50	140	< 10	2.9	< 100	< 10	< 10
17	Sample 6	1200	< 50	170	< 10	2.8	< 100	< 10	< 10
18	Sample 6	1300	< 50	170	< 10	2.2	< 100	< 10	< 10
19	Sample 7	300	< 50	460	< 10	5.0	< 100	< 10	< 10
20	Sample 7	310	< 50	430	< 10	6.5	< 100	< 10	< 10
21	Sample 8	1700	< 50	250	< 10	13	< 100	< 10	11

No.	Sample ID	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t	* F* mg/L	NH3-N mg/L	* pH	* Cond mS/m
10	Sample 2	35000	< 10	250	< 10	88	990	--	--	--	--
11	Sample 3	18000	< 10	220	10	64	1600	--	--	--	--
12	Sample 3	23000	< 10	260	< 10	78	1700	--	--	--	--
13	Sample 4	2000	< 10	230	< 10	32	2700	--	--	--	--
14	Sample 4	11000	< 10	250	< 10	79	2800	--	--	--	--
15	Sample 5	5900	< 10	120	< 10	59	98	--	--	--	--
16	Sample 5	12000	< 10	170	< 10	83	110	--	--	--	--
17	Sample 6	11000	< 10	180	< 10	45	1100	--	--	--	--
18	Sample 6	15000	< 10	200	< 10	52	1200	--	--	--	--
19	Sample 7	9700	< 10	130	< 10	11	400	--	--	--	--
20	Sample 7	36000	< 10	300	< 10	21	610	--	--	--	--
21	Sample 8	20000	< 10	290	< 10	59	2900	--	--	--	--

No.	Sample ID	* TDS mg/L	* Alk mg/L	Ca g/t	Mg g/t	Na g/t	K g/t	Si %	* Cl mg/L	* SO4 mg/L	* NO3 mg/L
10	Sample 2	--	--	1000	380	300	200	< 0.20	--	--	--
11	Sample 3	--	--	4900	320	360	290	< 0.20	--	--	--
12	Sample 3	--	--	340	360	330	290	< 0.20	--	--	--
13	Sample 4	--	--	96	310	300	350	< 0.20	--	--	--
14	Sample 4	--	--	140	410	360	370	< 0.20	--	--	--
15	Sample 5	--	--	73	160	200	180	< 0.20	--	--	--
16	Sample 5	--	--	3900	180	230	200	< 0.20	--	--	--
17	Sample 6	--	--	4700	250	340	220	< 0.20	--	--	--
18	Sample 6	--	--	5000	260	340	220	< 0.20	--	--	--
19	Sample 7	--	--	130	200	250	120	< 0.20	--	--	--
20	Sample 7	--	--	320	280	260	110	< 0.20	--	--	--
21	Sample 8	--	--	170	300	250	220	< 0.20	--	--	--

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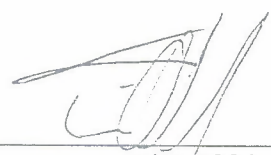
No.	Sample ID	Al g/t	As g/t	Cr g/t	Cd g/t	Ba g/t	Pb g/t	Co g/t	Cu g/t
22	Sample 8	2100	< 50	290	< 10	3.3	< 100	< 10	11
23	Sample 9	2700	< 50	180	< 10	15	< 100	< 10	< 10
24	Sample 9	1500	< 50	110	< 10	11	< 100	< 10	< 10

No.	Sample ID	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t	* F* mg/L	NH3-N mg/L	* pH	* Cond mS/m
22	Sample 8	25000	< 10	370	< 10	73	3700	--	--	--	--
23	Sample 9	12000	< 10	140	< 10	99	2300	1.0	1.7	8.1	64.7
24	Sample 9	6100	< 10	97	< 10	53	1300	--	--	--	--

No.	Sample ID	* TDS mg/L	* Alk mg/L	Ca g/t	Mg g/t	Na g/t	K g/t	Si %	* Cl mg/L	* SO4 mg/L	* NO3 mg/L
22	Sample 8	--	--	2800	360	290	270	< 0.20	--	--	--
23	Sample 9	550	55	1400	390	250	230	< 0.20	600	450	13
24	Sample 9	--	--	49	220	190	160	< 0.20	--	--	--

* - Analysis on 10:1 Liquid:Solid ratio


Noelene McKenzie, Sr. Chemist


Tim Elliott
Manager, Analytical Services

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The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written approval.



Dam 10
Sediments
Final



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Pinelands Site
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Modderfontein 1645
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South Africa

Your Ref.:

Our Ref.: 01 1462

Enquires: B.G.Cowan

Tel. #: 011-605 2452

Date: 14 December 2001

CERTIFICATE OF ANALYSIS

Ockie Fourie Toxicologists
Po Box 73179
Lynnwood Ridge
0040

ATTENTION: Dr O Fourie

Dear Dr Fourie,

SUBJECT: DETERMINATION OF VOLATILE ORGANICS AND SEMI-VOLATILE ORGANICS IN SEDIMENT SAMPLES

1. INTRODUCTION

This report details the results for the analysis of sediment samples received on 5 November 2001.

2. SAMPLE RECEIPT AND HANDLING

Eight samples were received in 1 litre Consol jars. The samples arrived cool and were immediately transferred to a refrigerator where they were kept until they were analysed.

3. ANALYSES REQUESTED

The determination of volatile organics and semi-volatile organics was requested.

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4. ANALYTICAL METHODS

4.1 Volatile organics

Volatile organics were determined by purge and trap GC-MS using an in-house method based on US EPA method 8260.

4.2 Semi-volatile organics

Semi-volatile organics were determined by GC-MS using an in-house method based on US EPA method 8270.

5. RESULTS

5.1 Volatile organics

The volatile organic results are given in Appendix 1. This is a target compound analysis. The list of target compounds together with the method detection limits is included with the results. The results have been reported on an "as received" basis.

In addition to the target compounds listed in Appendix 1, a number of non-target compounds were also detected. These were predominantly other aromatic hydrocarbons.

5.2 Semi-volatile organics

The semi-volatile organic results are given in Appendix 2. This is a target compound analysis. The list of target compounds together with the detection limits is included with the results. The results have been reported on an "as received" basis.

We trust these results will meet with your approval. Please let us know if you require any further information.

Yours faithfully,

B.G.Cowan
Technology Manager
PROBE, Bio/Chemtek
CSIR

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Appendix 1
Volatile Organics
by
Purge and Trap GC-MS

$\mu\text{g/kg} \div 1000 = \text{value in ppm}$

Peak	CAS No.:	Date Analysed	2001/12/07	2001/12/07	2001/12/07	2001/12/07
		Ref no	01-1462	01-1462	01-1462	01-1462
		Sample ID	2	3	4	5
		Units	$\mu\text{g/kg}$	$\mu\text{g/kg}$	$\mu\text{g/kg}$	$\mu\text{g/kg}$
1	75-71-8	Dichlorodifluoromethane	<5000	<100	<100	<5000
2	75-01-4	Vinyl Chloride	<5000	<100	<100	<5000
3	74-83-9	Bromomethane	<5000	<100	<100	<5000
4	75-69-4	Trichlorofluoromethane	<5000	<100	<100	<5000
5	75-35-4	1,1-Dichloroethene	<5000	<100	<100	<5000
6	75-09-2	Dichloromethane	<22 000	<500	<500	<23 000
7	156-60-5	trans-1,2-Dichloroethene	<5000	<100	<100	<5000
8	75-34-3	1,1-Dichloroethane	<5000	<100	<100	<5000
9	156-59-2	cis-1,2-Dichloroethene	<5000	<100	<100	<5000
10	594-20-7	2,2-Dichloropropane	<5000	<100	<100	<5000
11	74-97-5	Bromochloromethane	<5000	<100	<100	<5000
12	67-66-3	Chloroform	<5000	<100	<100	<5000
13	71-55-6	1,1,1-Trichloroethane	<5000	<100	<100	<5000
14	563-58-6	1,1-Dichloropropene	<5000	<100	<100	<5000
15	56-23-5	Carbon Tetrachloride	<5000	<100	<100	<5000
16	107-06-2	1,2-Dichloroethane	<5000	<100	<100	<5000
17	71-43-2	Benzene	59 000	260	8 000	350 000
18	79-01-6	Trichloroethene	<5000	<100	<100	<5000
19	78-87-5	1,2-Dichloropropane	<5000	<100	<100	<5000
20	74-95-3	Dibromomethane	<5000	<100	<100	<5000
21	75-27-4	Bromodichloromethane	<5000	<100	<100	<5000
22	108-88-3	Toluene	230 000	290	680	660 000
23	79-00-5	1,1,2-Trichloroethane	<5000	<100	<100	<5000
24	142-28-9	1,3-Dichloropropane	<5000	<100	<100	<5000
25	127-18-4	Tetrachloroethene	<5000	<100	<100	<5000
26	124-48-1	Dibromochloromethane	<5000	<100	<100	<5000
27	106-93-4	1,2-Dibromoethane	<5000	<100	<100	<5000
28	108-90-7	Chlorobenzene	<5000	<100	<100	<5000
29	630-20-6	1,1,1,2-Tetrachloroethane	<5000	<100	<100	<5000

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Appendix 1
Volatile Organics
by
Purge and Trap GC-MS

		Date Analysed	2001/12/07	2001/12/07	2001/12/07	2001/12/07
		Ref no	01-1462	01-1462	01-1462	01-1462
		Sample I.D.	2	3	4	5
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	38 000	200	580	87 000
31	108-38-3 106-42-3	m,p-Xylene	270 000	390	1400	560 000
32	95-47-6	o-Xylene	78 000	200	1000	160 000
33	100-42-5	Styrene	130 000	140	1000	270 000
34	75-25-2	Bromoform	<5000	<100	<100	10 000
35	98-82-8	Isopropylbenzene	<5000	<100	<100	<5000
36	79-34-5	1,1,2,2-Tetrachloroethane	<5000	<100	<100	<5000
37	96-18-4	1,2,3-Trichloropropane	<5000	<100	<100	<5000
38	108-86-1	Bromobenzene	<5000	<100	<100	<5000
39	103-65-1	n-Propylbenzene	<5000	<100	<100	<5000
40	95-49-8	2-Chlorotoluene	<5000	<100	<100	<5000
41	108-67-8	1,3,5-Trimethylbenzene	36 000	<100	170	56 000
42	106-43-4	4-Chlorotoluene	<5000	<100	<100	<5000
43	98-06-6	tert-Butylbenzene	<5000	<100	<100	<5000
44	95-63-6	1,2,4-Trimethylbenzene	74 000	310	300	120 000
45	135-98-8	sec-Butylbenzene	<5000	<100	<100	<5000
46	99-87-6	4-Isopropyltoluene	<5000	<100	<100	<5000
47	541-73-1	1,3-Dichlorobenzene	<5000	<100	<100	<5000
48	106-46-7	1,4-Dichlorobenzene	<5000	<100	<100	<5000
49	104-51-8	n-Butylbenzene	<5000	<100	120	<5000
50	95-50-1	1,2-Dichlorobenzene	<5000	<100	<100	<5000
51	96-12-8	1,2-Dibromo-3-chloropropane	<5000	<100	<100	<5000
52	120-82-1	1,2,4-Trichlorobenzene	<5000	<100	<100	<5000
53	87-68-3	Hexachlorobutadiene	<5000	<100	<100	<5000
54	91-20-3	Naphthalene	3 300 000*	11000	10 000	3 200 000
55	87-61-6	1,2,3-Trichlorobenzene	<5000	<100	<100	<5000

*Out of calibration

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Appendix 1
Volatile Organics
by
Purge and Trap GC-MS

Peak	CAS No.:	Date Analysed	2001/12/07	2001/12/07	2001/12/07	2001/12/07
		Ref no	01-1462	01-1462	01-1462	01-1462
		Sample ID	6	7	8	9
		Units	µg/kg	µg/kg	µg/kg	µg/kg
1	75-71-8	Dichlorodifluoromethane	<100	<100	<100	<100
2	75-01-4	Vinyl Chloride	<100	<100	<100	<100
3	74-83-9	Bromomethane	<100	<100	<100	<100
4	75-69-4	Trichlorofluoromethane	<100	<100	<100	<100
5	75-35-4	1,1-Dichloroethene	<100	<100	<100	<100
6	75-09-2	Dichloromethane	<500	<600	<400	<400
7	156-60-5	trans-1,2-Dichloroethene	<100	<100	<100	<100
8	75-34-3	1,1-Dichloroethane	<100	<100	<100	<100
9	156-59-2	cis-1,2-Dichloroethene	<100	<100	<100	<100
10	594-20-7	2,2-Dichloropropane	<100	<100	<100	<100
11	74-97-5	Bromochloromethane	<100	<100	<100	<100
12	67-66-3	Chloroform	<100	<100	<100	<100
13	71-55-6	1,1,1-Trichloroethane	<100	<100	<100	<100
14	563-58-6	1,1-Dichloropropene	<100	<100	<100	<100
15	56-23-5	Carbon Tetrachloride	<100	<100	<100	<100
16	107-06-2	1,2-Dichloroethane	<100	<100	<100	<100
17	71-43-2	Benzene	250	23 000	2 700	370
18	79-01-6	Trichloroethene	<100	<100	<100	<100
19	78-87-5	1,2-Dichloropropane	<100	<100	<100	<100
20	74-95-3	Dibromomethane	<100	<100	<100	<100
21	75-27-4	Bromodichloromethane	<100	<100	<100	<100
22	108-88-3	Toluene	270	33 000	1 900	320
23	79-00-5	1,1,2-Trichloroethane	<100	<100	<100	<100
24	142-28-9	1,3-Dichloropropane	<100	<100	<100	<100
25	127-18-4	Tetrachloroethene	<100	<100	<100	<100
26	124-48-1	Dibromochloromethane	<100	<100	<100	<100
27	106-93-4	1,2-Dibromoethane	<100	<100	<100	<100
28	108-90-7	Chlorobenzene	<100	<100	<100	<100
29	630-20-6	1,1,1,2-Tetrachloroethane	<100	<100	<100	<100

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Appendix 1
Volatile Organics
by
Purge and Trap GC-MS

Peak	CAS No.:	Date Analysed	2001/12/07	2001/12/07	2001/12/07	2001/12/07
		Ref no	01-1462	01-1462	01-1462	01-1462
		Sample I.D.	6	7	8	9
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	220	39 000	1300	180
31	108-38-3 106-42-3	m,p-Xylene	410	89 000	4700	200
32	95-47-6	o-Xylene	220	25 000	2900	100
33	100-42-5	Styrene	170	<100	2300	100
34	75-25-2	Bromoform	<100	<100	<100	<100
35	98-82-8	Isopropylbenzene	<100	4 000	110	<100
36	79-34-5	1,1,2,2-Tetrachloroethane	<100	<100	<100	<100
37	96-18-4	1,2,3-Trichloropropane	<100	<100	<100	<100
38	108-86-1	Bromobenzene	<100	<100	<100	<100
39	103-65-1	n-Propylbenzene	<100	720	<100	<100
40	95-49-8	2-Chlorotoluene	<100	<100	<100	<100
41	108-67-8	1,3,5-Trimethylbenzene	160	14 000	760	190
42	106-43-4	4-Chlorotoluene	<100	<100	<100	<100
43	98-06-6	tert-Butylbenzene	<100	<100	<100	<100
44	95-63-6	1,2,4-Trimethylbenzene	430	26 000	1 700	280
45	135-98-8	sec-Butylbenzene	<100	<100	<100	<100
46	99-87-6	4-Isopropyltoluene	<100	1 000	<100	<100
47	541-73-1	1,3-Dichlorobenzene	<100	<100	<100	<100
48	106-46-7	1,4-Dichlorobenzene	<100	<100	<100	<100
49	104-51-8	n-Butylbenzene	100	14 000	300	180
50	95-50-1	1,2-Dichlorobenzene	<100	<100	<100	<100
51	96-12-8	1,2-Dibromo-3-chloropropane	<100	<100	<100	<100
52	120-82-1	1,2,4-Trichlorobenzene	<100	<100	<100	<100
53	87-68-3	Hexachlorobutadiene	<100	<100	<100	<100
54	91-20-3	Naphthalene	16 000	1 600 000	40 000*	11 000
55	87-61-6	1,2,3-Trichlorobenzene	<100	<100	<100	<100

* Out of calibration

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Appendix 2
Semi-volatile organics
by
GC-MS

DATE ANALYSED			06/11/01	06/11/01	06/11/01
OUR REFERENCE		MDL	01-1462	01-1462	01-1462
SAMPLE ID			2	3	4
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
62-75-9	N-Nitrosodimethylamine	59	-	-	-
111-44-4	bis(2-Chloroethyl)ether	87	-	-	-
108-95-2	Phenol	64	6500	-	-
95-57-8	2-Chlorophenol	148	-	-	-
541-73-1	1,3-Dichlorobenzene	86	-	-	-
106-46-7	1,4-Dichlorobenzene	83	-	-	-
95-50-1	1,2-Dichlorobenzene	85	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	87	-	-	-
95-48-7	2-Methylphenol	103	3800	-	-
67-72-1	Hexachloroethane	90	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	79	-	-	-
106-44-5	4-Methylphenol	101	1500	-	-
98-95-3	Nitrobenzene	88	-	-	-
78-59-1	Isophorone	78	-	-	-
88-75-5	2-Nitrophenol	137	-	-	-
105-67-9	2,4-Dimethylphenol	157	3800	160	200
111-91-1	bis(2-Chloroethoxy)methane	76	-	-	-
120-83-2	2,4-Dichlorophenol	147	-	-	-
120-82-1	1,2,4-Trichlorobenzene	226	-	-	-
91-20-3	Naphthalene	86	6 800 000	90 000	16 000
106-47-8	4-Chloroaniline	79	-	-	-
87-68-3	Hexachlorobutadiene	101	-	-	-
59-50-7	4-Chloro-3-methylphenol	110	-	-	-
91-57-6	2-Methylnaphthalene	83	1400000	25 000	8 000
77-47-4	Hexachlorocyclopentadiene	283	-	-	-
88-06-2	2,4,6-Trichlorophenol	236	-	-	-
95-95-4	2,4,5-Trichlorophenol	206	-	-	-
91-58-7	2-Chloronaphthalene	83	-	-	-
88-74-4	2-Nitroaniline	95	-	-	-
208-96-8	Acenaphthylene	91	300000	1900	1 900
131-11-3	Dimethylphthalate	94	-	-	-

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606-20-2	2,6-Dinitrotoluene	93	-	-	-
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“ - “ = < Method detection limit (MDL)

Appendix 2
Semi-volatile organics
by
GC-MS

DATE ANALYSED			06/11/01	06/11/01	06/11/01
OUR REFERENCE		MDL	01-1462	01-1462	01-1462
SAMPLE ID			2	3	4
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	920 000	28 000	13 000
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	910 000	29 000	14 000
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	790 000	28 000	16 000
7005-72-3	4-Chlorophenyl-phenylether	93	-	-	-
84-66-2	Diethylphthalate	104	-	-	-
100-01-6	4-Nitroaniline	151	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	158	-	-	-
103-33-3	Azobenzene	84	-	-	-
101-55-3	4-Bromophenyl-phenylether	89	-	-	-
118-74-1	Hexachlorobenzene	92	-	-	-
87-86-5	Pentachlorophenol	190	-	-	-
85-01-8	Phenanthrene	95	920 000	39 000	32 000
120-12-7	Anthracene	96	280 000	11 000	9 400
86-74-8	Carbazole	103	560 000	15 000	6 900
84-74-2	Di-n-butylphthalate	94	-	-	-
206-44-0	Fluoranthene	102	480000	33 000	36 000
129-00-0	Pyrene	105	280000	21 000	22 000
85-68-7	Butylbenzylphthalate	99	-	-	-
56-55-3	Benzo[a]anthracene	101	120000	9 200	11000
218-01-9	Chrysene	103	110000	9 000	11000
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-	380
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	140000	11 000	14 000
50-32-8	Benzo[a]pyrene	107	83000	6 000	7 600
193-39-5	Indeno[1,2,3-cd]pyrene	118	52000	3 300	5300
53-70-3	Dibenz[a,h]anthracene	114	11000	830	1200
191-24-2	Benzo[g,h,i]perylene	116	36000	2 300	2600

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Appendix 2
Semi-volatile organics
by
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DATE ANALYSED			08/11/01	08/11/01	08/11/01
OUR REFERENCE		MDL	01-1462	01-1462	01-1462
SAMPLE ID			5	6	7
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
62-75-9	N-Nitrosodimethylamine	59	-	-	-
111-44-4	bis(2-Chloroethyl)ether	87	-	-	-
108-95-2	Phenol	64	75 000	-	990
95-57-8	2-Chlorophenol	148	-	-	-
541-73-1	1,3-Dichlorobenzene	86	-	-	-
106-46-7	1,4-Dichlorobenzene	83	-	-	-
95-50-1	1,2-Dichlorobenzene	85	-	-	-
108-60-1	bis(2-chloroisopropyl)ether	87	-	-	-
95-48-7	2-Methylphenol	103	57 000	-	760
67-72-1	Hexachloroethane	90	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	79	-	-	-
106-44-5	4-Methylphenol	101	110 000	-	1 900
98-95-3	Nitrobenzene	88	-	-	-
78-59-1	Isophorone	78	-	-	-
88-75-5	2-Nitrophenol	137	-	-	-
105-67-9	2,4-Dimethylphenol	157	67 000	410	7 900
111-91-1	bis(2-Chloroethoxy)methane	76	-	-	-
120-83-2	2,4-Dichlorophenol	147	-	-	-
120-82-1	1,2,4-Trichlorobenzene	226	-	-	-
91-20-3	Naphthalene	86	>1 642 000	420 000	>2 800 000
106-47-8	4-Chloroaniline	79	-	-	-
87-68-3	Hexachlorobutadiene	101	-	-	-
59-50-7	4-Chloro-3-methylphenol	110	-	-	-
91-57-6	2-Methylnaphthalene	83	>1 642 000	12 000	>2 800 000
77-47-4	Hexachlorocyclopentadiene	283	-	-	-
88-06-2	2,4,6-Trichlorophenol	236	-	-	-
95-95-4	2,4,5-Trichlorophenol	206	-	-	-
91-58-7	2-Chloronaphthalene	83	-	-	-
88-74-4	2-Nitroaniline	95	-	-	-
208-96-8	Acenaphthylene	91	400 000	2 900	1 600 000
131-11-3	Dimethylphthalate	94	-	-	-

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606-20-2	2,6-Dinitrotoluene	93	-	-	-
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Draft for discussion
CONFIDENTIAL
Research for IVS

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Appendix 2
Semi-volatile organics
by
GC-MS

DATE ANALYSED			08/11/01	08/11/01	08/11/01
OUR REFERENCE		MDL	01-1462	01-1462	01-1462
SAMPLE ID			5	6	7
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	1 400 000	120 000	>2 800 000
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	1 400 00	120 000	>2 800 000
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	1 200 000	120 000	>2 800 000
7005-72-3	4-Chlorophenyl-phenylether	93	-	-	-
84-66-2	Diethylphthalate	104	-	-	-
100-01-6	4-Nitroaniline	151	-	-	-
534-52-1	4,6-Dinitro-2-methylphenol	158	-	-	-
103-33-3	Azobenzene	84	-	-	-
101-55-3	4-Bromophenyl-phenylether	89	-	-	-
118-74-1	Hexachlorobenzene	92	-	-	-
87-86-5	Pentachlorophenol	190	-	-	-
85-01-8	Phenanthrene	95	1 400 000	170 000	>2 800 000
120-12-7	Anthracene	96	430 000	13 000	1 300 000
86-74-8	Carbazole	103	510 000	14 000	910 000
84-74-2	Di-n-butylphthalate	94	-	-	-
206-44-0	Fluoranthene	102	780 000	33 000	2 400 000
129-00-0	Pyrene	105	470 000	22 000	1 500 000
85-68-7	Butylbenzylphthalate	99	-	-	-
56-55-3	Benzo[a]anthracene	101	200 000	11 000	670 000
218-01-9	Chrysene	103	180 000	10 000	600 000
117-81-7	bis(2-Ethylhexyl)phthalate	247	480	-	-
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+[k]fluoranthene	119	230 000	15 000	790 000
50-32-8	Benzo[a]pyrene	107	140 000	8 100	470 000
193-39-5	Indeno[1,2,3-cd]pyrene	118	77 000	4 100	300 000
53-70-3	Dibenz[a,h]anthracene	114	24 000	1 000	85 000
191-24-2	Benzo[g,h,i]perylene	116	53 000	2 900	200 000

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Appendix 2
Semi-volatile organics
by
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DATE ANALYSED			08/11/01	08/11/01
OUR REFERENCE		MDL	01-1462	01-1462
SAMPLE ID			8	9
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg
62-75-9	N-Nitrosodimethylamine	59	-	-
111-44-4	bis(2-Chloroethyl)ether	87	-	-
108-95-2	Phenol	64	-	-
95-57-8	2-Chlorophenol	148	-	-
541-73-1	1,3-Dichlorobenzene	86	-	-
106-46-7	1,4-Dichlorobenzene	83	-	-
95-50-1	1,2-Dichlorobenzene	85	-	-
108-60-1	bis(2-chloroisopropyl)ether	87	-	-
95-48-7	2-Methylphenol	103	-	-
67-72-1	Hexachloroethane	90	-	-
621-64-7	N-Nitroso-di-n-propylamine	79	-	-
106-44-5	4-Methylphenol	101	-	-
98-95-3	Nitrobenzene	88	-	-
78-59-1	Isophorone	78	-	-
88-75-5	2-Nitrophenol	137	-	-
105-67-9	2,4-Dimethylphenol	157	-	-
111-91-1	bis(2-Chloroethoxy)methane	76	-	-
120-83-2	2,4-Dichlorophenol	147	-	-
120-82-1	1,2,4-Trichlorobenzene	226	-	-
91-20-3	Naphthalene	86	35 000	7 000
106-47-8	4-Chloroaniline	79	-	-
87-68-3	Hexachlorobutadiene	101	-	-
59-50-7	4-Chloro-3-methylphenol	110	-	-
91-57-6	2-Methylnaphthalene	83	1 900	10 000
77-47-4	Hexachlorocyclopentadiene	283	-	-
88-06-2	2,4,6-Trichlorophenol	236	-	-
95-95-4	2,4,5-Trichlorophenol	206	-	-
91-58-7	2-Chloronaphthalene	83	-	-
88-74-4	2-Nitroaniline	95	-	-
208-96-8	Acenaphthylene	91	2 600	13 000
131-11-3	Dimethylphthalate	94	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-

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Appendix 2
Semi-volatile organics
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DATE ANALYSED			08/11/01	08/11/01
OUR REFERENCE		MDL	01-1462	01-1462
SAMPLE ID			8	9
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	13 000	29 000
99-09-2	3-Nitroaniline	104	-	-
51-28-5	2,4-Dinitrophenol	162	-	-
132-64-9	Dibenzofuran	97	16 000	38 000
121-14-2	2,4-Dinitrotoluene	104	-	-
100-02-7	Nitrophenol	101	-	-
86-73-7	Fluorene	87	18 000	52 000
7005-72-3	4-Chlorophenyl-phenylether	93	-	-
84-66-2	Diethylphthalate	104	-	-
100-01-6	4-Nitroaniline	151	-	-
534-52-1	4,6-Dinitro-2-methylphenol	158	-	-
103-33-3	Azobenzene	84	-	-
101-55-3	4-Bromophenyl-phenylether	89	-	-
118-74-1	Hexachlorobenzene	92	-	-
87-86-5	Pentachlorophenol	190	-	-
85-01-8	Phenanthrene	95	33 000	140 000
120-12-7	Anthracene	96	8 200	42 000
86-74-8	Carbazole	103	9 500	11 000
84-74-2	Di-n-butylphthalate	94	-	-
206-44-0	Fluoranthene	102	24 000	150 000
129-00-0	Pyrene	105	8 700	95 000
85-68-7	Butylbenzylphthalate	99	-	-
56-55-3	Benzo[a]anthracene	101	6 700	47 000
218-01-9	Chrysene	103	6 000	47 000
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-
117-84-0	Di-n-octylphthalate	143	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	5 400	61 000
50-32-8	Benzo[a]pyrene	107	3 300	34 000
193-39-5	Indeno[1,2,3-cd]pyrene	118	3 000	19000
53-70-3	Dibenz[a,h]anthracene	114	920	1 600
191-24-2	Benzo[g,h,i]perylene	116	2000	14 000

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