Appendix I

Volatile Organics by Purge and Trap GC-MS

Dam1 Dam3 Dam3 Dam3

		Date Analysed		16/12/01	16/12/01	16/12/01	16/12/01
		Ref no		01-1553	01-1553	01-1553	01-1553
		Sample I.D.	MDL	12D	13D	14D	15D
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	-	-	-	-
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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Appendix I

Volatile Organics by Purge and Trap GC-MS

Dam 2 Dam 2 Dam 2

		Date Analysed		16/12/01	16/12/01	16/12/01
		Ref no		01-1553	01-1553	01-1553
		Sample I.D.	MDL	16D	17D	18D
Peak	CAS No.:	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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Appendix I

Volatile Organics
by
Purge and Trap GC-MS

Damz Damz Damz

		Date Analysed		16/12/01	16/12/01	16/12/01
		Ref no		01-1553	01-1553	01-1553
		Sample I.D.	MDL	16D	17D	18D
Peak	CAS No.:	Units	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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Damwater

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Semi-Volatile

Appendix 2

Semi-volatile organics by GC-MS

			Dam4	Dam4	Dam4
	Date Analysed		12/12/01	14/12/01	12/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	1S	1D	2S
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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Appendix 2

Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		12/12/01	14/12/01	12/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	1S	1D	2S
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	-	-	7
56-55-3	Benzo[a]anthracene	1	-	-	-
218-01-9	Chrysene	1	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	4	-
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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

Dam 4 Dam 4 Dam 4

Date Analysed			12/12/01	14/12/01	14/12/01
Ref no			01-1553	01-1553	01-1553
Sample I.D		MDL	2D	3S	3D
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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Appendix 2

Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		12/12/01	14/12/01	14/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	2D	3S	3D
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	6	-	-
56-55-3	Benzo[a]anthracene	1	-	-	-
218-01-9	Chrysene	1	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	2	4	3
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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

Damy Damy Damy

Date Analysed			20/12/01	20/12/01	10/12/01
Ref no			01-1553	01-1553	01-1553
Sample I.D		MDL	4S	4D	5S
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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Appendix 2

Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		20/12/01	20/12/01	10/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	4S	4D	5S
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	-	-	6
56-55-3	Benzo[a]anthracene	1	-	-	-
218-01-9	Chrysene	1	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	3	-	6
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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	-	-	-

"_" =< Method detection limit (MDL)

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Appendix 2

Semi-volatile organics
by
GC-MS

Damy Damy Damy

	Date Analysed		11/12/01	11/12/01	13/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	5D	6S	6D
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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Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		11/12/01	11/12/01	13/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	5D	6S	6D
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	7	8	-
56-55-3	Benzo[a]anthracene	1	-	-	-
218-01-9	Chrysene	1	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	6	8	3
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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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Semi-volatile organics
by
GC-MS

Dam 4 Dam 4

Date Analysed			20/12/01	20/12/01
Ref no			01-1553	01-1553
Sample I.D		MDL	7S	7D
CAS No.:	COMPONENTS	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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Semi-volatile organics
by
GC-MS

Dam 4 Dam 4

Date Analysed			20/12/01	20/12/01
Ref no			01-1553	01-1553
Sample I.D		MDL	7S	7D
CAS No.:	COMPONENTS	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	5	-
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	Benzo[b]fluoranthene	2	-	-
207-08-9	Benzo[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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Semi-volatile organics by GC-MS

Dam 3 Dam 1 Dam 1

	Date Analysed		10/12/01	14/12/01	10/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	8D	9D	10D
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	-	87	52
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	-	24	19
67-72-1	Hexachloroethane	1	-	-	-
621-64-7	N-Nitroso-di-n-propylamine	4	-	-	-
106-44-5	4-Methylphenol	3	-	110	68
98-95-3	Nitrobenzene	1	-	-	-
78-59-1	Isophorone	3	-	-	-
88-75-5	2-Nitrophenol	2	-	-	-
105-67-9	2,4-Dimethylphenol	2	-	41	24
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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Semi-volatile organics by GC-MS

Dam 3 Dam 1 Dam 1

	Date Analysed		10/12/01	14/12/01	10/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	8D	9D	10D
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	2	-	3
117-84-0	Di-n-octylphthalate	6	-	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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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Semi-volatile organics by GC-MS

Dam 1 Dam 1 Dam 3

	Date Analysed		20/12/01	20/12/01	20/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	11D	12D	13D
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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Semi-volatile organics by GC-MS

Dam 1 Dam 1 Dam 3

Date Analysed			20/12/01	20/12/01	20/12/01
Ref no			01-1553	01-1553	01-1553
Sample I.D		MDL	11D	12D	13D
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	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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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Semi-volatile organics by GC-MS

Dam 3 Dam 3

Date Analysed			20/12/01	11/12/01
Ref no			01-1553	01-1553
Sample I.D		MDL	14D	15D
CAS No.:	COMPONENTS	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

Dam 3 Dam 3

	Date Analysed		20/12/01	11/12/01
	Ref no		01-1553	01-1553
	Sample I.D	MDL	14D	15D
CAS No.:	COMPONENTS	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	-	7
56-55-3	Benzo[a]anthracene	1	-	-
218-01-9	Chrysene	1	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	2	-	5
117-84-0	Di-n-octylphthalate	6	-	-
205-99-2	Benzo[b]fluoranthene	2	-	-
207-08-9	Benzo[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

Dam2 Dam2 Dam2

	Date Analysed		19/12/01	21/12/01	15/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	16D	17D	18D
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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Appendix 2

Semi-volatile organics by GC-MS

Dam 2 Dam 2 Dam 2

	Date Analysed		19/12/01	21/12/01	15/12/01
	Ref no		01-1553	01-1553	01-1553
	Sample I.D	MDL	16D	17D	18D
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	Benzo[b]fluoranthene	2	-	-	-
207-08-9	Benzo[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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EVAPORATION DAM 1 - 4: LABORATORY ANALYSIS

SEDIMENTS

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Ockie Fourie Toxicologists (Pty) Ltd
P.O. Box 73179
Lynnwood Ridge, 0040 - RSA

Attn : Dr H.O. Fourie
Fax : (012) 348 7436

Johannesburg, January 15, 2002

Date Rec. : November 27, 2001
LR. Ref. : **NOV1008.R01**
Reference : LAB/41/2001
Project : Total(Head)Analysis

CERTIFICATE OF ANALYSIS

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	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t
	Sample 1	7500	< 50	44	< 10	5.8	< 100	< 10	< 10	12000	< 10	89	< 10	160	13
	Sample 2	9500	< 50	60	< 10	7.6	< 100	< 10	< 10	17000	16	130	12	660	31
	Sample 3	4100	< 50	82	< 10	6.0	< 100	< 10	< 10	12000	25	160	15	640	30
	Sample 4	5300	< 50	54	< 10	4.5	< 100	< 10	< 10	9100	11	400	< 10	160	170
	Sample 5	2800	< 50	230	< 10	73	< 100	< 10	13	12000	24	240	16	560	310
	Sample 6	8500	< 50	99	< 10	38	< 100	< 10	< 10	9500	21	710	10	330	1300
	Sample 8	7700	< 50	110	< 10	3.6	< 100	< 10	< 10	11000	27	190	< 10	670	250
	Sample 9	4700	< 50	61	< 10	12	< 100	< 10	< 10	4000	21	300	12	220	37
	Sample 10	15000	< 50	62	< 10	19	< 100	10	< 10	8100	< 10	150	< 10	100	32

No.	Sample ID	* F mg/L	* NH3-N mg/L	* pH	* Cond mS/m	* 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
	Sample 1	5.30	2.69	7.0	325	3060	48	720	660	1200	1300	< 0.20	650	1350	1.60
	Sample 2	4.60	24.4	6.7	330	3055	16	30000	820	1300	1600	< 0.20	550	1300	1.30
	Sample 3	0.95	9.30	7.1	238	2275	36	1100	420	1300	740	< 0.20	550	1150	7.40
	Sample 4	2.70	13.3	6.9	276	2785	14	680	430	2000	830	< 0.20	400	1400	7.70
	Sample 5	5.80	21.5	6.7	326	3155	48	100	410	750	750	< 0.20	650	1450	5.30
	Sample 6	1.56	22.6	6.8	296	3020	26	92	610	1500	1300	< 0.20	250	1400	8.30
	Sample 8	1.24	9.70	7.3	134	910	32	4200	510	780	1100	< 0.20	300	400	7.10
	Sample 9	1.04	2.88	10.2	140	1005	156	330	5100	3000	1300	< 0.20	200	250	10.3
	Sample 10	1.50	1.70	8.3	94.3	690	70	75	1100	2000	1600	< 0.20	300	300	6.40

1-6 Dam 4
8 Dam 3
9+10 Dam 1

1-6 Dam 4
8 Dam 3
9+10 Dam 1

Sediments (Total / Head)
4-1 Dam 8

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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	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t
10	Sample 11	7700	< 50	100	< 10	18	< 100	< 10	< 10	8100	14	120	< 10	510	46
11	Sample 12	9000	< 50	110	< 10	2.6	< 100	< 10	< 10	8900	25	58	< 10	810	19
12	Sample 14	3700	< 50	96	< 10	8.9	< 100	< 10	< 10	15000	54	490	14	380	300
13	Sample 15	2800	< 50	63	< 10	8.1	< 100	< 10	< 10	5600	16	140	14	400	35
14	Sample 16	5300	< 50	51	< 10	5.9	< 100	< 10	< 10	5200	15	120	11	370	30
15	Sample 17	11000	< 50	49	< 10	17	< 100	< 10	< 10	5500	13	130	< 10	380	19
16	Sample 18	6600	< 50	41	< 10	6.4	< 100	< 10	< 10	14000	12	150	< 10	440	18
-- Check --															
17	Sample 1	6900	< 50	62	< 10	4.4	< 100	< 10	< 10	11000	13	100	< 10	310	23
18	Sample 1	6800	< 50	58	< 10	4.7	< 100	< 10	< 10	11000	11	66	< 10	240	14
19	Sample 2	9500	< 50	45	< 10	2.9	< 100	< 10	< 10	11000	11	110	< 10	360	23
20	Sample 2	9400	< 50	60	< 10	2.1	< 100	< 10	< 10	16000	13	140	< 10	530	29

No.	Sample ID	* F mg/L	* NH3-N mg/L	* pH	* Cond mS/m	* 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 11	1.38	0.76	9.2	99.9	740	76	120	2700	1100	1600	< 0.20	300	100	2.40
11	Sample 12	1.09	5.80	8.7	46.4	335	84	1100	800	800	1100	< 0.20	600	150	22.8
12	Sample 14	6.40	0.54	7.8	229	1535	42	5400	730	1900	1300	< 0.20	450	800	8.90
13	Sample 15	1.52	1.97	8.0	214	1530	40	7000	440	2200	1200	< 0.20	400	900	8.20
14	Sample 16	2.00	6.20	8.4	91.3	780	170	2500	690	1500	920	< 0.20	100	550	17.8
15	Sample 17	0.97	2.86	8.2	49.3	625	92	170	320	1300	930	< 0.20	400	400	9.30
16	Sample 18	0.71	3.61	8.4	111	945	150	4800	1600	1500	1300	< 0.20	200	500	4.50
-- Check --															
17	Sample 1	--	--	7.0	325	--	48	14000	910	1200	1100	< 0.20	600	1500	--
18	Sample 1	--	--	7.0	325	--	48	3900	630	780	1200	< 0.20	650	1350	--
19	Sample 2	--	--	6.7	330	--	16	6700	770	1100	1600	< 0.20	500	1450	--
20	Sample 2	--	--	6.7	330	--	16	16000	800	2100	1600	< 0.20	500	1450	--

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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	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t
21	Sample 3	3800	< 50	42	< 10	4.1	< 100	< 10	< 10	11000	< 10	120	< 10	270	13
22	Sample 3	3400	< 50	47	< 10	3.0	< 100	< 10	< 10	11000	< 10	140	< 10	290	15
23	Sample 4	5900	< 50	57	< 10	3.3	< 100	< 10	< 10	10000	15	120	12	540	34
24	Sample 4	6300	< 50	46	< 10	23	< 100	< 10	< 10	9900	12	95	< 10	360	17
25	Sample 5	3600	< 50	73	< 10	43	< 100	< 10	< 10	15000	18	110	13	420	28
26	Sample 5	3100	< 50	55	< 10	28	< 100	< 10	< 10	13000	14	97	< 10	340	28
27	Sample 6	8700	< 50	52	< 10	17	< 100	< 10	< 10	10000	11	440	< 10	170	200
28	Sample 6	8500	< 50	49	< 10	14	< 100	< 10	< 10	10000	< 10	350	< 10	250	160
29	Sample 8	7600	< 50	190	< 10	8.7	< 100	< 10	< 10	6600	20	330	14	790	300
30	Sample 8	7400	< 50	250	< 10	57	< 100	< 10	14	9200	26	280	18	650	350
31	Sample 9	5000	< 50	83	< 10	27	< 100	< 10	< 10	4300	18	620	13	280	1100
32	Sample 9	4900	< 50	100	< 10	46	< 100	< 10	< 10	4400	22	670	12	330	1400

No.	Sample ID	* F mg/L	* NH3-N mg/L	* pH	* Cond mS/m	* 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
21	Sample 3	--	--	7.1	238	--	36	4900	390	1700	730	< 0.20	550	1000	--
22	Sample 3	--	--	7.1	238	--	36	7700	380	1700	650	< 0.20	550	1050	--
23	Sample 4	--	--	6.9	276	--	12	2800	440	1500	910	< 0.20	400	1300	--
24	Sample 4	--	--	6.9	276	--	14	140	820	1100	950	< 0.20	400	1400	--
25	Sample 5	--	--	6.7	326	--	48	270	530	1200	810	< 0.20	600	1500	--
26	Sample 5	--	--	6.7	326	--	50	420	410	940	740	< 0.20	650	1500	--
27	Sample 6	--	--	6.8	296	--	26	99	650	2100	1400	< 0.20	300	1450	--
28	Sample 6	--	--	6.8	296	--	26	69	650	1700	1400	< 0.20	300	1400	--
29	Sample 8	--	--	7.3	134	--	32	550	520	880	1100	< 0.20	300	350	--
30	Sample 8	--	--	7.3	134	--	34	110	540	980	1100	< 0.20	300	300	--
31	Sample 9	--	--	10.2	140	--	156	120	5600	1300	1400	< 0.20	200	400	--
32	Sample 9	--	--	10.2	140	--	158	110	5400	1600	1400	< 0.20	200	250	--

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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	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t
33	Sample 10	15000	< 50	130	< 10	6.8	< 100	< 10	< 10	20000	37	250	13	880	290
34	Sample 10	15000	< 50	110	< 10	6.2	< 100	< 10	< 10	8200	28	200	< 10	670	260
35	Sample 11	8500	< 50	32	< 10	4.4	< 100	< 10	< 10	10000	< 10	55	11	27	11
36	Sample 11	7500	< 50	32	< 10	4.0	< 100	< 10	< 10	7100	< 10	56	< 10	31	< 10
37	Sample 12	11000	< 50	46	< 10	6.4	< 100	11	< 10	12000	< 10	170	< 10	130	34
38	Sample 12	11000	< 50	50	< 10	20	< 100	11	< 10	10000	10	150	11	120	32
39	Sample 14	700	< 50	100	< 10	18	< 100	< 10	< 10	2400	14	130	< 10	560	54
40	Sample 14	600	< 50	91	< 10	11	< 100	< 10	< 10	2100	12	100	< 10	520	52
41	Sample 15	3000	< 50	82	< 10	18	< 100	< 10	< 10	10000	17	49	< 10	780	18
42	Sample 15	3000	< 50	80	< 10	16	< 100	< 10	< 10	6800	16	46	< 10	730	21
43	Sample 16	5900	< 50	80	< 10	26	< 100	< 10	< 10	5700	39	290	19	250	230
44	Sample 16	6100	< 50	90	< 10	3.2	< 100	< 10	< 10	5800	47	410	12	350	270

No.	Sample ID	* F mg/L	* NH3-N mg/L	* pH	* Cond mS/m	* 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
33	Sample 10	--	--	8.3	94.3	--	68	5300	1400	810	1700	< 0.20	300	350	--
34	Sample 10	--	--	8.3	94.3	--	70	2500	1300	680	1700	< 0.20	300	300	--
35	Sample 11	--	--	9.2	99.9	--	78	160	3000	2100	1800	< 0.20	300	300	--
36	Sample 11	--	--	8.7	99.9	--	76	95	2700	2300	1600	< 0.20	300	200	--
37	Sample 12	--	--	8.7	46.4	--	84	480	990	2100	1200	< 0.20	600	300	--
38	Sample 12	--	--	7.8	46.4	--	82	95	960	2300	1200	< 0.20	600	100	--
39	Sample 14	--	--	7.8	229	--	42	160	310	1200	850	< 0.20	450	700	--
40	Sample 14	--	--	8.0	229	--	42	180	300	970	830	< 0.20	450	600	--
41	Sample 15	--	--	8.0	214	--	40	290	500	790	1200	< 0.20	400	600	--
42	Sample 15	--	--	8.4	214	--	40	390	500	620	1200	< 0.20	400	600	--
43	Sample 16	--	--	8.4	91.3	--	170	110	770	1400	1000	< 0.20	150	200	--
44	Sample 16	--	--	8.2	91.3	--	172	1800	790	1700	1000	< 0.20	150	250	--

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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	Fe g/t	V g/t	Mn g/t	Ni g/t	Ti g/t	Zn g/t
45	Sample 17	8900	< 50	70	< 10	15	< 100	< 10	< 10	4600	15	42	< 10	670	16
46	Sample 17	9600	< 50	76	< 10	16	< 100	< 10	< 10	5100	15	44	< 10	700	20
47	Sample 18	6500	< 50	82	< 10	27	< 100	< 10	< 10	7300	40	300	20	250	240
48	Sample 18	6900	< 50	84	< 10	3.1	< 100	< 10	< 10	13000	44	390	11	330	250

No.	Sample ID	* F mg/L	* NH3-N mg/L	* pH	* Cond mS/m	* 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
45	Sample 17	--	--	8.2	49.3	--	92	240	310	710	930	< 0.20	400	100	--
46	Sample 17	--	--	8.4	49.3	--	92	360	340	650	950	< 0.20	400	200	--
47	Sample 18	--	3.62	8.4	111	--	150	100	1400	1500	1300	< 0.20	200	600	4.50
48	Sample 18	--	3.62	8.3	111	--	152	1700	1600	1600	1300	< 0.20	200	300	4.58

* - Analysis on 10:1 Liquid: Solid Ratio

Noelene McKenzie/Snr. Chemist

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Tim Elliott
Manager, Analytical Services

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Sediments
Dam 4 — (1–6)
Dam 3 — 8, (13), 14 & 15
↓ Nee
Dam 2 — 16, 17 & 18
Dam 1 — 9, 10, 11 & 12

Ockie Fourie Toxicologists (Pty) Ltd
P.O. Box 73179
Lynnwood Ridge, 0040 - RSA

Attn : Dr H.O. Fourie
Fax : (012) 348 7436

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Johannesburg, January 15, 2002

Date Rec. : November 27, 2001
LR. Ref. : **NOV1501.R01**
Reference : LAB/41/2001
Project : EPA TCLP Leach

CERTIFICATE OF ANALYSIS

No.	Sample ID	Al mg/L	As mg/L	Cr mg/L	Ag mg/L	Cd mg/L	Ba mg/L	Hg mg/L	Se mg/L	Pb mg/L	Co mg/L	Cu mg/L	Fe mg/L	V mg/L	Mn mg/L	Ni mg/L
1	Sample 1 #1	1.2	< 0.34	< 0.04	< 0.02	< 0.03	0.17	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	54	< 0.07	3.1	0.09
2	Sample 2 #1	0.95	< 0.34	< 0.04	< 0.02	< 0.03	0.33	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	190	< 0.07	6.5	0.07
3	Sample 3 #1	0.96	< 0.34	< 0.04	< 0.02	< 0.03	0.10	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	2.5	< 0.07	2.3	< 0.05
4	Sample 4 #1	1.5	< 0.34	< 0.04	< 0.02	< 0.03	0.12	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	23	< 0.07	3.5	0.09
5	Sample 5 #1	0.63	< 0.34	< 0.04	< 0.02	< 0.03	0.12	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	45	< 0.07	2.9	0.05
6	Sample 6 #1	1.2	< 0.34	< 0.04	< 0.02	< 0.03	0.15	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	44	< 0.07	3.1	0.06
7	Sample 8 #1	1.6	< 0.34	< 0.04	< 0.02	< 0.03	0.33	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	84	< 0.07	5.1	< 0.05
8	Sample 9 #2	0.83	< 0.34	< 0.04	< 0.02	< 0.03	0.51	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	16	< 0.07	11	< 0.05

Dam 4
Dam 3
Dam 1

No.	Sample ID	Ti mg/L	Zn mg/L	F mg/L	NH3-N mg/L	pH	Cond mS/m	TDS mg/L	Alk mg/L	Ca mg/L	Mg mg/L	K mg/L	Si mg/L	Cl mg/L	SO4 g/L	NO3 mg/L
1	Sample 1 #1	< 0.02	< 0.17	1.0	4	4.9	744	9550	3300	630	17	36	5.7	120	2.0	< 10
2	Sample 2 #1	< 0.02	0.25	0.6	10	5.0	712	8600	2350	410	21	52	20	80	1.3	10
3	Sample 3 #1	< 0.02	0.17	0.4	3	4.9	773	8800	1250	850	11	23	6.4	70	2.2	< 10
4	Sample 4 #1	< 0.02	0.19	0.7	7	4.9	786	9050	1250	870	12	28	6.5	50	2.5	< 10
5	Sample 5 #1	< 0.02	< 0.17	0.3	7	4.9	799	9050	1300	880	15	29	8.4	120	2.6	< 10
6	Sample 6 #1	< 0.02	< 0.17	0.5	10	4.9	799	8950	1400	840	15	42	7.1	50	2.4	< 10
7	Sample 8 #1	< 0.02	< 0.17	0.8	7	5.0	556	6450	1100	48	14	26	4.1	70	< 1.0	< 10
8	Sample 9 #2	< 0.02	< 0.17	1.2	13	7.3	697	8900	3000	1900	140	48	25	50	< 1.0	13

Dam 4
Dam 3
Dam 1

Dam 1-4 Sediments (TCLP)

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Dam 1

Dam 2

Dam 3

No.	Sample ID	Al mg/L	As mg/L	Cr mg/L	Ag mg/L	Cd mg/L	Ba mg/L	Hg mg/L	Se mg/L	Pb mg/L	Co mg/L	Cu mg/L	Fe mg/L	V mg/L	Mn mg/L	Ni mg/L
9	Sample 10 #1	0.11	< 0.34	< 0.04	< 0.02	< 0.03	0.47	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	90	< 0.07	11	< 0.05
10	Sample 11 #2	1.6	< 0.34	< 0.04	< 0.02	< 0.03	0.31	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	48	< 0.07	18	< 0.05
11	Sample 12 #1	0.30	< 0.34	< 0.04	< 0.02	< 0.03	0.45	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	46	< 0.07	4.2	< 0.05
12	Sample 14 #1	0.94	< 0.34	< 0.04	< 0.02	< 0.03	0.08	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	0.13	< 0.07	2.0	< 0.05
13	Sample 15 #1	2.1	< 0.34	< 0.04	< 0.02	< 0.03	0.21	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	77	< 0.07	5.7	< 0.05
14	Sample 16 #1	0.15	< 0.34	< 0.04	< 0.02	< 0.03	0.39	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	37	< 0.07	3.2	< 0.05
15	Sample 17 #1	0.30	< 0.34	< 0.04	< 0.02	< 0.03	0.40	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	19	< 0.07	0.9	< 0.05
16	Sample 18 #1	0.09	< 0.34	< 0.04	< 0.02	< 0.03	0.44	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	83	< 0.07	12	< 0.05
-- Check --																
17	Sample 2 #1	0.85	< 0.34	< 0.04	< 0.02	< 0.03	0.27	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	170	< 0.07	6.8	0.07
18	Sample 10 #1	0.13	< 0.34	< 0.04	< 0.02	< 0.03	0.49	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	99	< 0.07	10	< 0.05
19	Sample 18 #1	0.10	< 0.34	< 0.04	< 0.02	< 0.03	0.45	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	85	< 0.07	12	< 0.05

No.	Sample ID	Ti mg/L	Zn mg/L	F mg/L	NH3-N mg/L	pH	Cond mS/m	TDS mg/L	Alk mg/L	Ca mg/L	Mg mg/L	K mg/L	Si mg/L	Cl mg/L	SO4 g/L	NO3 mg/L
9	Sample 10 #1	< 0.02	< 0.17	3.0	10	6.9	704	8300	10850	620	19	37	9.8	10	< 1.0	< 10
10	Sample 11 #2	< 0.02	< 0.17	1.2	6	7.0	669	9300	16300	1960	48	50	22	20	< 1.0	< 10
11	Sample 12 #1	< 0.02	< 0.17	0.5	6	5.4	597	7450	10050	270	13	28	8.2	50	< 1.0	< 10
12	Sample 14 #1	< 0.02	< 0.17	0.7	11	4.9	574	6450	1500	42	12	39	2.6	70	< 1.0	11
13	Sample 15 #1	< 0.02	< 0.17	0.3	6	5.0	587	6750	2000	74	17	45	7.7	20	< 1.0	< 10
14	Sample 16 #1	< 0.02	< 0.17	0.3	8	5.3	601	7900	3100	200	16	30	7.9	50	< 1.0	< 10
15	Sample 17 #1	< 0.02	< 0.17	0.3	11	5.0	551	7300	2050	57	5.3	24	4.5	90	1.0	11
16	Sample 18 #1	< 0.02	< 0.17	0.6	6	5.3	624	8050	3000	270	26	42	25	20	< 1.0	< 10
-- Check --																
17	Sample 2 #1	< 0.02	0.23	0.9	12	5.0	710	8100	--	400	19	47	22	90	1.6	12
18	Sample 10 #1	< 0.02	< 0.17	2.9	11	5.6	695	8500	10250	590	18	36	9.6	50	< 1.0	11
19	Sample 18 #1	< 0.02	< 0.17	0.5	12	5.0	626	7650	3000	270	26	42	25	50	< 1.0	12

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No.	Sample ID	Al mg/L	As mg/L	Cr mg/L	Ag mg/L	Cd mg/L	Ba mg/L	Hg mg/L	Se mg/L	Pb mg/L	Co mg/L	Cu mg/L	Fe mg/L	V mg/L	Mn mg/L	Ni mg/L
20	Blank A	< 0.08	< 0.34	< 0.04	< 0.02	< 0.03	0.02	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	< 0.02	< 0.07	< 0.01	< 0.05
21	Blank B1	< 0.08	< 0.34	< 0.04	< 0.02	< 0.03	0.04	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	< 0.02	< 0.07	< 0.01	< 0.05
22	Blank B2	< 0.08	< 0.34	< 0.04	< 0.02	< 0.03	< 0.02	< 0.01	< 0.05	< 0.31	< 0.12	0.04	< 0.02	< 0.07	< 0.01	< 0.05
23	Blank C	< 0.08	< 0.34	< 0.04	< 0.02	< 0.03	< 0.02	< 0.01	< 0.05	< 0.31	< 0.12	< 0.02	< 0.02	< 0.07	< 0.01	< 0.05

No.	Sample ID	Ti mg/L	Zn mg/L	F mg/L	NH3-N mg/L	pH	Cond mS/m	TDS mg/L	Alk mg/L	Ca mg/L	Mg mg/L	K mg/L	Si mg/L	Cl mg/L	SO4 g/L	NO3 mg/L
20	Blank A	< 0.02	< 0.17	< 0.1	3	6.5	495	6050	4250	< 0.05	< 0.02	1.8	< 0.37	< 10	< 1.0	< 10
21	Blank B1	< 0.02	< 0.17	< 0.1	3	5.6	492	5700	3000	< 0.05	< 0.02	< 0.11	< 0.37	< 10	< 1.0	< 10
22	Blank B2	< 0.02	< 0.17	< 0.1	8	4.9	485	500	< 10	< 0.05	< 0.02	1.7	< 0.37	< 10	< 1.0	< 10
23	Blank C	< 0.02	< 0.17	< 0.1	7	4.9	497	5800	2900	< 0.05	< 0.02	< 0.11	0.57	< 10	< 1.0	< 10

Noelene McKenzie, Snr. Chemist

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Tim Elliott
Manager, Analytical Services

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Leachate Test Report

Client Information

Reference No.:	LAB/41/2001	**Date Received:**	November 27, 2001
Company:	Ockie Fourie Toxicologists	**Quote/Proposal #:**	-
Client Contact:	Dr HO Fourie	**LIMS #:**	NOV 1501.R01
Order Number:	-	**No. of Samples:**	6

Test Information

Test Method: USEPA TCLP 1311

Extractant Used: TCLP #1 (pH 4.93 ± 0.05)

Sample Weight: 100 g

Extractant Volume: 2 L

Extraction Period: 18 h

Comments: Leaches completed on as-received samples resuspended prior to weighing

Sample ID:	1	2	2 (duplicate)	3
Evaluation pH:	7.42	7.15	-	6.89
Final pH:	5.01	5.14	5.16	4.96

Sample ID:	4	5	6	Blank A
Evaluation pH:	7.06	6.97	7.32	-
Final pH:	4.99	4.99	5.00	4.99

Environmental Chemist

pp Environmental Manager

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Australia
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Chile
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South Africa

Leachate Test Report

Client Information

Reference No.:	LAB/41/2001	**Date Received:**	November 27, 2001
Company:	Ockie Fourie Toxicologists	**Quote/Proposal #:**	-
Client Contact:	Dr HO Fourie	**LIMS #:**	NOV 1501.R01
Order Number:	-	**No. of Samples:**	5

Test Information

Test Method: USEPA TCLP 1311

Extractant Used: TCLP #1* (pH 4.93 ± 0.05) and TCLP #2** (pH 2.88 ± 0.05)

Sample Weight: 100 g

Extractant Volume: 2 L

Extraction Period: 18 h

Comments: Leaches completed on as-received samples resuspended prior to weighing

Sample ID:	8*	9**	10*	10 (duplicate)*
Evaluation pH:	7.88	10.37	8.38	-
Final pH:	5.10	5.88	6.27	6.20

Sample ID:	11**	12*	Blank B1*	Blank B2**
Evaluation pH:	9.82	9.42	-	-
Final pH:	5.75	5.44	4.99	2.94

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pp Environmental Manager

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Client Contact:	Dr HO Fourie	**LIMS #:**	NOV 1501.R01
Order Number:	-	**No. of Samples:**	5

Test Information

Test Method: USEPA TCLP 1311
Extractant Used: TCLP #1 (pH 4.93 ± 0.05)
Sample Weight: 100 g
Extractant Volume: 2 L
Extraction Period: 18 h
Comments: Leaches completed on as-received samples resuspended prior to weighing

Sample ID:	14	15	16	17
Evaluation pH:	7.58	8.51	9.21	9.38
Final pH:	4.98	5.09	5.35	5.09

Sample ID:	18	18 (duplicate)	Blank C	
Evaluation pH:	9.44	-	-	
Final pH:	5.59	5.60	4.96	

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Verslag (Voorblad by Wade)

Dam 1-4 Sediments

CSIR
BIO/CHEMTEK

Volatile

Appendix 1

Volatile Organics by Headspace GC-MS

Dam4 Dam4 Dam4 Dam4

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	1	2	3	4
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
1	75-71-8	Dichlorodifluoromethane	<10	<10	<10	<10
2	75-01-4	Vinyl Chloride	<10	<10	<10	<10
3	74-83-9	Bromomethane	<10	<10	<10	<10
4	75-69-4	Trichlorofluoromethane	<10	<10	<10	<10
5	75-35-4	1,1-Dichloroethene	<10	<10	<10	<10
6	75-09-2	Dichloromethane	<10	<10	<10	<10
7	156-60-5	trans-1,2-Dichloroethene	<10	<10	<10	<10
8	75-34-3	1,1-Dichloroethane	<10	<10	<10	<10
9	156-59-2	cis-1,2-Dichloroethene	<10	<10	<10	<10
10	594-20-7	2,2-Dichloropropane	<10	<10	<10	<10
11	74-97-5	Bromochloromethane	<10	<10	<10	<10
12	67-66-3	Chloroform	<10	<10	<10	<10
13	71-55-6	1,1,1-Trichloroethane	<10	<10	<10	<10
14	563-58-6	1,1-Dichloropropene	<10	<10	<10	<10
15	56-23-5	Carbon Tetrachloride	<10	<10	<10	<10
16	107-06-2	1,2-Dichloroethane	<10	<10	<10	<10
17	71-43-2	Benzene	<10	<10	<10	<10
18	79-01-6	Trichloroethene	<10	<10	<10	<10
19	78-87-5	1,2-Dichloropropane	<10	<10	<10	<10
20	74-95-3	Dibromomethane	<10	<10	<10	<10
21	75-27-4	Bromodichloromethane	<10	<10	<10	<10
22	108-88-3	Toluene	<10	<10	<10	<10
23	79-00-5	1,1,2-Trichloroethane	<10	<10	<10	<10
24	142-28-9	1,3-Dichloropropane	<10	<10	<10	<10
25	127-18-4	Tetrachloroethene	<10	<10	<10	<10
26	124-48-1	Dibromochloromethane	<10	<10	<10	<10
27	106-93-4	1,2-Dibromoethane	<10	<10	<10	<10
28	108-90-7	Chlorobenzene	<10	<10	<10	<10
29	630-20-6	1,1,1,2-Tetrachloroethane	<10	<10	<10	<10

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Appendix 1

Volatile Organics
by
Headspace GC-MS

Dam 4 Dam 4 Dam 4 Dam 4

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	1	2	3	4
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	<10	<10	<10	<10
31	108-38-3 106-42-3	m,p-Xylene	<10	<10	<10	<10
32	95-47-6	o-Xylene	<10	<10	<10	<10
33	100-42-5	Styrene	<10	<10	<10	<10
34	75-25-2	Bromoform	<10	<10	<10	<10
35	98-82-8	Isopropylbenzene	<10	<10	<10	<10
36	79-34-5	1,1,2,2-Tetrachloroethane	<10	<10	<10	<10
37	96-18-4	1,2,3-Trichloropropane	<10	<10	<10	<10
38	108-86-1	Bromobenzene	<10	<10	<10	<10
39	103-65-1	n-Propylbenzene	<10	<10	<10	<10
40	95-49-8	2-Chlorotoluene	<10	<10	<10	<10
41	108-67-8	1,3,5-Trimethylbenzene	<10	<10	<10	<10
42	106-43-4	4-Chlorotoluene	<10	<10	<10	<10
43	98-06-6	tert-Butylbenzene	<10	<10	<10	<10
44	95-63-6	1,2,4-Trimethylbenzene	<10	<10	<10	<10
45	135-98-8	sec-Butylbenzene	<10	<10	<10	<10
46	99-87-6	4-Isopropyltoluene	<10	<10	<10	<10
47	541-73-1	1,3-Dichlorobenzene	<10	<10	<10	<10
48	106-46-7	1,4-Dichlorobenzene	<10	<10	<10	<10
49	104-51-8	n-Butylbenzene	<10	<10	<10	<10
50	95-50-1	1,2-Dichlorobenzene	<10	<10	<10	<10
51	96-12-8	1,2-Dibromo-3-chloropropane	<10	<10	<10	<10
52	120-82-1	1,2,4-Trichlorobenzene	<10	<10	<10	<10
53	87-68-3	Hexachlorobutadiene	<10	<10	<10	<10
54	91-20-3	Naphthalene	<10	<10	<10	<10
55	87-61-6	1,2,3-Trichlorobenzene	<10	<10	<10	<10

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Appendix 1

Volatile Organics by Headspace GC-MS

Dam 4 Dam 4 Dam 3 Dam 1

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	5	6	8	9
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	<10	<10	<10	<10
31	108-38-3 106-42-3	m,p-Xylene	<10	<10	<10	<10
32	95-47-6	o-Xylene	<10	<10	<10	<10
33	100-42-5	Styrene	<10	<10	<10	<10
34	75-25-2	Bromoform	<10	<10	<10	<10
35	98-82-8	Isopropylbenzene	<10	<10	<10	<10
36	79-34-5	1,1,2,2-Tetrachloroethane	<10	<10	<10	<10
37	96-18-4	1,2,3-Trichloropropane	<10	<10	<10	<10
38	108-86-1	Bromobenzene	<10	<10	<10	<10
39	103-65-1	n-Propylbenzene	<10	<10	<10	<10
40	95-49-8	2-Chlorotoluene	<10	<10	<10	<10
41	108-67-8	1,3,5-Trimethylbenzene	<10	<10	<10	<10
42	106-43-4	4-Chlorotoluene	<10	<10	<10	<10
43	98-06-6	tert-Butylbenzene	<10	<10	<10	<10
44	95-63-6	1,2,4-Trimethylbenzene	<10	<10	<10	<10
45	135-98-8	sec-Butylbenzene	<10	<10	<10	<10
46	99-87-6	4-Isopropyltoluene	<10	<10	<10	<10
47	541-73-1	1,3-Dichlorobenzene	<10	<10	<10	<10
48	106-46-7	1,4-Dichlorobenzene	<10	<10	<10	<10
49	104-51-8	n-Butylbenzene	<10	<10	<10	<10
50	95-50-1	1,2-Dichlorobenzene	<10	<10	<10	<10
51	96-12-8	1,2-Dibromo-3-chloropropane	<10	<10	<10	<10
52	120-82-1	1,2,4-Trichlorobenzene	<10	<10	<10	<10
53	87-68-3	Hexachlorobutadiene	<10	<10	<10	<10
54	91-20-3	Naphthalene	<10	<10	<10	12
55	87-61-6	1,2,3-Trichlorobenzene	<10	<10	<10	<10

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Appendix 1

Volatile Organics
by
Headspace GC-MS

			Dam 1	Dam 1	Dam 1	Dam 3
		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	10	11	12	14
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
1	75-71-8	Dichlorodifluoromethane	<10	<10	<10	<10
2	75-01-4	Vinyl Chloride	<10	<10	<10	<10
3	74-83-9	Bromomethane	<10	<10	<10	<10
4	75-69-4	Trichlorofluoromethane	<10	<10	<10	<10
5	75-35-4	1,1-Dichloroethene	<10	<10	<10	<10
6	75-09-2	Dichloromethane	<10	<10	<10	<10
7	156-60-5	trans-1,2-Dichloroethene	<10	<10	<10	<10
8	75-34-3	1,1-Dichloroethane	<10	<10	<10	<10
9	156-59-2	cis-1,2-Dichloroethene	<10	<10	<10	<10
10	594-20-7	2,2-Dichloropropane	<10	<10	<10	<10
11	74-97-5	Bromochloromethane	<10	<10	<10	<10
12	67-66-3	Chloroform	<10	<10	<10	<10
13	71-55-6	1,1,1-Trichloroethane	<10	<10	<10	<10
14	563-58-6	1,1-Dichloropropene	<10	<10	<10	<10
15	56-23-5	Carbon Tetrachloride	<10	<10	<10	<10
16	107-06-2	1,2-Dichloroethane	<10	<10	<10	<10
17	71-43-2	Benzene	<10	<10	<10	<10
18	79-01-6	Trichloroethene	<10	<10	<10	<10
19	78-87-5	1,2-Dichloropropane	<10	<10	<10	<10
20	74-95-3	Dibromomethane	<10	<10	<10	<10
21	75-27-4	Bromodichloromethane	<10	<10	<10	<10
22	108-88-3	Toluene	<10	<10	<10	<10
23	79-00-5	1,1,2-Trichloroethane	<10	<10	<10	<10
24	142-28-9	1,3-Dichloropropane	<10	<10	<10	<10
25	127-18-4	Tetrachloroethene	<10	<10	<10	<10
26	124-48-1	Dibromochloromethane	<10	<10	<10	<10
27	106-93-4	1,2-Dibromoethane	<10	<10	<10	<10
28	108-90-7	Chlorobenzene	<10	<10	<10	<10
29	630-20-6	1,1,1,2-Tetrachloroethane	<10	<10	<10	<10

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Appendix 1

Volatile Organics by Headspace GC-MS

Dam1 Dam1 Dam1 Dam3

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	10	11	12	14
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	<10	<10	<10	<10
31	108-38-3 106-42-3	m,p-Xylene	<10	<10	<10	<10
32	95-47-6	o-Xylene	<10	<10	<10	<10
33	100-42-5	Styrene	<10	<10	<10	<10
34	75-25-2	Bromoform	<10	<10	<10	<10
35	98-82-8	Isopropylbenzene	<10	<10	<10	<10
36	79-34-5	1,1,2,2-Tetrachloroethane	<10	<10	<10	<10
37	96-18-4	1,2,3-Trichloropropane	<10	<10	<10	<10
38	108-86-1	Bromobenzene	<10	<10	<10	<10
39	103-65-1	n-Propylbenzene	<10	<10	<10	<10
40	95-49-8	2-Chlorotoluene	<10	<10	<10	<10
41	108-67-8	1,3,5-Trimethylbenzene	<10	<10	<10	<10
42	106-43-4	4-Chlorotoluene	<10	<10	<10	<10
43	98-06-6	tert-Butylbenzene	<10	<10	<10	<10
44	95-63-6	1,2,4-Trimethylbenzene	<10	<10	<10	<10
45	135-98-8	sec-Butylbenzene	<10	<10	<10	<10
46	99-87-6	4-Isopropyltoluene	<10	<10	<10	<10
47	541-73-1	1,3-Dichlorobenzene	<10	<10	<10	<10
48	106-46-7	1,4-Dichlorobenzene	<10	<10	<10	<10
49	104-51-8	n-Butylbenzene	<10	<10	<10	<10
50	95-50-1	1,2-Dichlorobenzene	<10	<10	<10	<10
51	96-12-8	1,2-Dibromo-3-chloropropane	<10	<10	<10	<10
52	120-82-1	1,2,4-Trichlorobenzene	<10	<10	<10	<10
53	87-68-3	Hexachlorobutadiene	<10	<10	<10	<10
54	91-20-3	Naphthalene	<10	<10	<10	<10
55	87-61-6	1,2,3-Trichlorobenzene	<10	<10	<10	<10

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Appendix 1

Volatile Organics by Headspace GC-MS

Dam 3 Dam 2 Dam 2 Dam 2

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	15	16	17	18
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
1	75-71-8	Dichlorodifluoromethane	<10	<10	<10	<10
2	75-01-4	Vinyl Chloride	<10	<10	<10	<10
3	74-83-9	Bromomethane	<10	<10	<10	<10
4	75-69-4	Trichlorofluoromethane	<10	<10	<10	<10
5	75-35-4	1,1-Dichloroethene	<10	<10	<10	<10
6	75-09-2	Dichloromethane	<10	<10	<10	<10
7	156-60-5	trans-1,2-Dichloroethene	<10	<10	<10	<10
8	75-34-3	1,1-Dichloroethane	<10	<10	<10	<10
9	156-59-2	cis-1,2-Dichloroethene	<10	<10	<10	<10
10	594-20-7	2,2-Dichloropropane	<10	<10	<10	<10
11	74-97-5	Bromochloromethane	<10	<10	<10	<10
12	67-66-3	Chloroform	<10	<10	<10	<10
13	71-55-6	1,1,1-Trichloroethane	<10	<10	<10	<10
14	563-58-6	1,1-Dichloropropene	<10	<10	<10	<10
15	56-23-5	Carbon Tetrachloride	<10	<10	<10	<10
16	107-06-2	1,2-Dichloroethane	<10	<10	<10	<10
17	71-43-2	Benzene	<10	<10	<10	<10
18	79-01-6	Trichloroethene	<10	<10	<10	<10
19	78-87-5	1,2-Dichloropropane	<10	<10	<10	<10
20	74-95-3	Dibromomethane	<10	<10	<10	<10
21	75-27-4	Bromodichloromethane	<10	<10	<10	<10
22	108-88-3	Toluene	<10	<10	<10	<10
23	79-00-5	1,1,2-Trichloroethane	<10	<10	<10	<10
24	142-28-9	1,3-Dichloropropane	<10	<10	<10	<10
25	127-18-4	Tetrachloroethene	<10	<10	<10	<10
26	124-48-1	Dibromochloromethane	<10	<10	<10	<10
27	106-93-4	1,2-Dibromoethane	<10	<10	<10	<10
28	108-90-7	Chlorobenzene	<10	<10	<10	<10
29	630-20-6	1,1,1,2-Tetrachloroethane	<10	<10	<10	<10

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Appendix 1

Volatile Organics by Headspace GC-MS

Dam 3 Dam 2 Dam 2 Dam 2

		Date Analysed	04/02/02	04/02/02	04/02/02	04/02/02
		Ref no	01-1553	01-1553	01-1553	01-1553
		Sample I.D.	15	16	17	18
Peak	CAS No.:	Units	µg/kg	µg/kg	µg/kg	µg/kg
30	100-41-4	Ethylbenzene	<10	<10	<10	<10
31	108-38-3 106-42-3	m,p-Xylene	<10	<10	<10	<10
32	95-47-6	o-Xylene	<10	<10	<10	<10
33	100-42-5	Styrene	<10	<10	<10	<10
34	75-25-2	Bromoform	<10	<10	<10	<10
35	98-82-8	Isopropylbenzene	<10	<10	<10	<10
36	79-34-5	1,1,2,2-Tetrachloroethane	<10	<10	<10	<10
37	96-18-4	1,2,3-Trichloropropane	<10	<10	<10	<10
38	108-86-1	Bromobenzene	<10	<10	<10	<10
39	103-65-1	n-Propylbenzene	<10	<10	<10	<10
40	95-49-8	2-Chlorotoluene	<10	<10	<10	<10
41	108-67-8	1,3,5-Trimethylbenzene	<10	<10	<10	<10
42	106-43-4	4-Chlorotoluene	<10	<10	<10	<10
43	98-06-6	tert-Butylbenzene	<10	<10	<10	<10
44	95-63-6	1,2,4-Trimethylbenzene	<10	<10	<10	<10
45	135-98-8	sec-Butylbenzene	<10	<10	<10	<10
46	99-87-6	4-Isopropyltoluene	<10	<10	<10	<10
47	541-73-1	1,3-Dichlorobenzene	<10	<10	<10	<10
48	106-46-7	1,4-Dichlorobenzene	<10	<10	<10	<10
49	104-51-8	n-Butylbenzene	<10	<10	<10	<10
50	95-50-1	1,2-Dichlorobenzene	<10	<10	<10	<10
51	96-12-8	1,2-Dibromo-3-chloropropane	<10	<10	<10	<10
52	120-82-1	1,2,4-Trichlorobenzene	<10	<10	<10	<10
53	87-68-3	Hexachlorobutadiene	<10	<10	<10	<10
54	91-20-3	Naphthalene	<10	<10	<10	<10
55	87-61-6	1,2,3-Trichlorobenzene	<10	<10	<10	<10

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Dam 1 - 4 Sediments

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(Semi-volatile)

Appendix 2

Semi-volatile organics by GC-MS

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			Dam 4	Dam 4	Dam 4
	Date Analysed		14/01/02	14/01/02	14/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		1	2	3
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	-	-	-
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	-	-	290
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	-	-	-
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	-	-	-
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	-	-	-
131-11-3	Dimethylphthalate	94	-	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-	-

"_" = < Method detection limit (MDL)

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Appendix 2

Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		14/01/02	14/01/02	14/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		1	2	3
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-	-
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	-	-	-
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	-	-	-
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	-	-	-
120-12-7	Anthracene	96	-	-	-
86-74-8	Carbazole	103	-	-	-
84-74-2	Di-n-butylphthalate	94	190	220	120
206-44-0	Fluoranthene	102	120	150	-
129-00-0	Pyrene	105	-	110	-
85-68-7	Butylbenzylphthalate	99	-	150	-
56-55-3	Benzo[a]anthracene	101	-	-	-
218-01-9	Chrysene	103	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-	-
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	-	130	-
50-32-8	Benzo[a]pyrene	107	-	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	118	-	-	-
53-70-3	Dibenz[a,h]anthracene	114	-	-	-
191-24-2	Benzo[g,h,i]perylene	116	-	-	-

" – " = < Method detection limit (MDL)

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Appendix 2

Semi-volatile organics by GC-MS

Dam 4 Damy Damy

	Date Analysed		15/01/02	15/01/02	15/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		4	5	6
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	-	-	-
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	-	420	-
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	-	-	-
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	-	-	-
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	-	-	-
131-11-3	Dimethylphthalate	94	-	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-	-

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Semi-volatile organics by GC-MS

Dam 4 Dam 4 Dam 4

	Date Analysed		15/01/02	15/01/02	15/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		4	5	6
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-	-
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	-	-	-
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	-	-	-
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	-	-	-
120-12-7	Anthracene	96	-	-	-
86-74-8	Carbazole	103	-	-	-
84-74-2	Di-n-butylphthalate	94	120	130	140
206-44-0	Fluoranthene	102	140	-	-
129-00-0	Pyrene	105	-	-	-
85-68-7	Butylbenzylphthalate	99	-	-	980
56-55-3	Benzo[a]anthracene	101	-	-	-
218-01-9	Chrysene	103	-	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-	-
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	-	-	-
50-32-8	Benzo[a]pyrene	107	-	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	118	-	-	-
53-70-3	Dibenz[a,h]anthracene	114	-	-	-
191-24-2	Benzo[g,h,i]perylene	116	-	-	-

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Semi-volatile organics by GC-MS

Dam3 Dam1 Dam1

	Date Analysed		15/01/02	15/01/02	19/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		8	9	10
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	-	230	90
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	-	-	220
98-95-3	Nitrobenzene	88	-	-	-
78-59-1	Isophorone	78	-	-	-
88-75-5	2-Nitrophenol	137	-	-	-
105-67-9	2,4-Dimethylphenol	157	-	-	310
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	-	-	100
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	-	-	280
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	-	-	460
131-11-3	Dimethylphthalate	94	-	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-	-

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Semi-volatile organics by GC-MS

Dam 3 Dam 1 Dam 1

	Date Analysed		15/01/02	15/01/02	19/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		8	9	10
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-	740
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	-	-	930
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	-	-	1300
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	-	-	2200
120-12-7	Anthracene	96	-	-	1200
86-74-8	Carbazole	103	-	-	2300
84-74-2	Di-n-butylphthalate	94	170	130	150
206-44-0	Fluoranthene	102	180	170	9000
129-00-0	Pyrene	105	120	120	6000
85-68-7	Butylbenzylphthalate	99	-	-	190
56-55-3	Benzo[a]anthracene	101	-	-	2100
218-01-9	Chrysene	103	-	-	2100
117-81-7	bis(2-Ethylhexyl)phthalate	247	270	-	430.
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	140	-	3100
50-32-8	Benzo[a]pyrene	107	-	-	1400
193-39-5	Indeno[1,2,3-cd]pyrene	118	-	-	1100
53-70-3	Dibenz[a,h]anthracene	114	-	-	180
191-24-2	Benzo[g,h,i]perylene	116	-	-	710

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Semi-volatile organics by GC-MS

Dam 1 Dam 1

Date Analysed			15/01/02	16/01/02
Ref no		MDL	01-1553	01-1553
Sample I.D			11	12
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	-	120
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	-	430
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	-	-
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	100	-
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	-	-
131-11-3	Dimethylphthalate	94	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-

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Semi-volatile organics by GC-MS

Dam1 Dam1

	Date Analysed		15/01/02	16/01/02
	Ref no	MDL	01-1553	01-1553
	Sample I.D		11	12
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-
99-09-2	3-Nitroaniline	104	-	-
51-28-5	2,4-Dinitrophenol	162	-	-
132-64-9	Dibenzofuran	97	150	-
121-14-2	2,4-Dinitrotoluene	104	-	-
100-02-7	-Nitrophenol	101	-	-
86-73-7	Fluorene	87	270	-
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	370	-
120-12-7	Anthracene	96	180	-
86-74-8	Carbazole	103	1500	-
84-74-2	Di-n-butylphthalate	94	110	110
206-44-0	Fluoranthene	102	1200	180
129-00-0	Pyrene	105	670	120
85-68-7	Butylbenzylphthalate	99	-	-
56-55-3	Benzo[a]anthracene	101	290	-
218-01-9	Chrysene	103	360	-
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-
117-84-0	Di-n-octylphthalate	143	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	580	-
50-32-8	Benzo[a]pyrene	107	230	-
193-39-5	Indeno[1,2,3-cd]pyrene	118	200	-
53-70-3	Dibenz[a,h]anthracene	114	-	-
191-24-2	Benzo[g,h,i]perylene	116	130	-

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Semi-volatile organics
by
GC-MS

Dam 3 Dam 3

	Date Analysed		16/01/02	16/01/02
	Ref no	MDL	01-1553	01-1553
	Sample I.D		14	15
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	103	-
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	-	-
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	-	-
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	-	-
131-11-3	Dimethylphthalate	94	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-

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Semi-volatile organics
by
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Dam3 Dam3

	Date Analysed		16/01/02	16/01/02
	Ref no	MDL	01-1553	01-1553
	Sample I.D		14	15
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-
99-09-2	3-Nitroaniline	104	-	-
51-28-5	2,4-Dinitrophenol	162	-	-
132-64-9	Dibenzofuran	97	-	-
121-14-2	2,4-Dinitrotoluene	104	-	-
100-02-7	-Nitrophenol	101	-	-
86-73-7	Fluorene	87	-	-
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	-	-
120-12-7	Anthracene	96	-	-
86-74-8	Carbazole	103	-	-
84-74-2	Di-n-butylphthalate	94	-	-
206-44-0	Fluoranthene	102	-	-
129-00-0	Pyrene	105	-	-
85-68-7	Butylbenzylphthalate	99	-	-
56-55-3	Benzo[a]anthracene	101	-	-
218-01-9	Chrysene	103	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	247	-	-
117-84-0	Di-n-octylphthalate	143	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	-	-
50-32-8	Benzo[a]pyrene	107	-	-
193-39-5	Indeno[1,2,3-cd]pyrene	118	-	-
53-70-3	Dibenz[a,h]anthracene	114	-	-
191-24-2	Benzo[g,h,i]perylene	116	-	-

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Semi-volatile organics by GC-MS

Dam 2 Dam 2 Dam 2

	Date Analysed		18/01/02	18/01/02	16/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		16	17	18
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	-	-	-
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	190	-	-
98-95-3	Nitrobenzene	88	-	-	-
78-59-1	Isophorone	78	-	-	-
88-75-5	2-Nitrophenol	137	-	-	-
105-67-9	2,4-Dimethylphenol	157	180	-	-
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	-	-	-
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	-	-	-
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	-	-	-
131-11-3	Dimethylphthalate	94	-	-	-
606-20-2	2,6-Dinitrotoluene	93	-	-	-

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Semi-volatile organics by GC-MS

Dam 2 Dam 2 Dam 2

	Date Analysed		18/01/02	18/01/02	16/01/02
	Ref no	MDL	01-1553	01-1553	01-1553
	Sample I.D		16	17	18
CAS No.:	COMPONENTS	µg/kg	µg/kg	µg/kg	µg/kg
83-32-9	Acenaphthene	90	-	-	-
99-09-2	3-Nitroaniline	104	-	-	-
51-28-5	2,4-Dinitrophenol	162	-	-	-
132-64-9	Dibenzofuran	97	-	-	-
121-14-2	2,4-Dinitrotoluene	104	-	-	-
100-02-7	-Nitrophenol	101	-	-	-
86-73-7	Fluorene	87	-	-	-
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	110	-	-
120-12-7	Anthracene	96	110	-	-
86-74-8	Carbazole	103	290	-	150
84-74-2	Di-n-butylphthalate	94	210	160	170
206-44-0	Fluoranthene	102	310	-	170
129-00-0	Pyrene	105	240	-	120
85-68-7	Butylbenzylphthalate	99	-	-	-
56-55-3	Benzo[a]anthracene	101	-	-	-
218-01-9	Chrysene	103	110	-	-
117-81-7	bis(2-Ethylhexyl)phthalate	247	440	-	320
117-84-0	Di-n-octylphthalate	143	-	-	-
205-99-2	Benzo[b]+]k]fluoranthene	119	150	-	-
50-32-8	Benzo[a]pyrene	107		-	-
193-39-5	Indeno[1,2,3-cd]pyrene	118	-	-	-
53-70-3	Dibenz[a,h]anthracene	114	-	-	-
191-24-2	Benzo[g,h,i]perylene	116	-	-	-

" – " = < Method detection limit (MDL)

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