

Appendix A

Remedial Investigation Data Summary Tables

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

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Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	CPT/SB-01/8-10			CPT/SB-01/44-46			CPT/SB-02/9-11			CPT/SB-03/20-22			CPT/SB-04/20-22		
			Lab Sample Number	Date Collected		Sample-Specific MDL	Result	Notes									
TCL Volatiles																	
1,1-Dichloroethene	75-35-4	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
Trichloroethene	79-01-6	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Benzene	71-43-2	0.001	ND			ND	ND		0.013	ND		ND	ND		0.021	J	
Toluene	108-88-3	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Chlorobenzene	108-90-7	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Xylene (total)	1330-20-7	0.001	ND			ND	ND		0.28	ND		ND	ND		0.005	ND	
Chloromethane	74-87-3	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
Bromomethane	74-83-9	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
Vinyl Chloride	75-01-4	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
Chloroethane	75-00-3	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
Methylene Chloride	75-09-2	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
1,1-Dichloroethane	75-34-3	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Chloroform	67-66-3	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
1,2-Dichloroethane	107-06-2	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
1,1,1-Trichloroethane	71-55-6	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Carbon Tetrachloride	56-23-5	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Bromodichloromethane	75-27-4	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
1,2-Dichloropropane	78-87-5	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
trans-1,3-Dichloropropene	10061-02-6	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Dibromoethane	124-49-1	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
1,1,2-Trichloroethane	79-00-5	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
cis-1,3-Dichloropropene	10061-01-5	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Bromoform	75-25-2	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Tetrachloroethene	127-18-4	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	ND	
Ethylbenzene	100-41-4	0.001	ND			ND	ND		ND	ND		ND	ND		0.025	ND	
Acetone	67-64-1	0.007	0.059	J		0.035	0.730	J	0.009	J		0.035	0.099	J	0.099	J	
Carbon Disulfide	75-15-0	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
2-Butanone	78-93-3	0.007	ND			ND	ND		ND	ND		ND	ND		0.035	ND	
Vinyl Acetate	108-05-4	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
2-Hexanone	591-78-6	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
4-Methyl-2-pentanone	108-10-1	0.003	ND			ND	ND		ND	ND		ND	ND		0.015	ND	
Styrene	100-42-5	0.001	ND			ND	ND		ND	ND		ND	ND		0.005	0.24	
trans-1,2-Dichloroethene	156-60-5	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	ND			ND	ND		ND	ND		ND	ND		0.01	ND	

Notes

Analytical method: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample CPT/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

SW-846
Summary of Subsurface Soil Analytical Results

**Former Gulf States Cresosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Standard MDL	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
TCL Semivolatiles											
phenol	108-93-2	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
2-chlorophenol	95-57-8	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
1,4-dichlorobenzene	106-46-7	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
N-nitrosodi-n-propylamine	621-64-7	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
1,2,4-trichlorobenzene	120-82-1	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
4-chloro-3-methylphenol	59-50-7	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
acenaphthene	83-32-9	0.033	ND	ND		ND	0.17	26	ND	ND	ND
4-nitrophenol	100-02-7	0.17	ND	ND		ND	0.83	ND	ND	ND	ND
2,4-dinitrotoluene	121-14-2	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
pentachlorophenol	87-86-5	0.17	ND	ND		ND	0.83	ND	ND	ND	ND
pyrene	129-00-0	0.067	ND	ND		ND	0.33	24	ND	ND	ND
2-nitrophenol	88-75-5	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
2,4-dimethylphenol	105-67-9	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
2,4-dichlorophenol	120-83-2	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
2,4,6-trichlorophenol	88-06-2	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
2,4-dinitrophenol	51-28-5	0.17	ND	ND		ND	0.83	ND	ND	ND	ND
bis (2-chloroethyl) ether	111-44-4	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
1,3-dichlorobenzene	541-75-1	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
1,2-dichlorobenzene	95-50-1	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
hexachloroethane	67-72-1	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
nitrobenzene	98-95-3	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
isophorone	78-59-1	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
bis (2-chloroethoxy) methane	111-91-1	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
naphthalene	91-20-3	0.033	ND	ND		ND	1.7	180	ND	ND	ND
hexachlorobutadiene	87-68-3	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
hexachlorocyclopentadiene	77-47-4	0.17	ND	ND		ND	0.83	ND	ND	ND	ND
2-chloronaphthalene	91-58-7	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
acenaphthylene	208-96-8	0.033	ND	ND		ND	0.17	0.84	J	ND	ND
dimethyl phthalate	131-11-3	0.033	ND	ND		ND	0.17	ND	ND	ND	ND
fluorene	86-73-7	0.033	ND	ND		ND	1.7	47	ND	ND	ND
4-chlorophenyl phenyl ether	7005-72-3	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
dicyanophthalic acid	84-66-2	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
N-nitrosodiphenylamine	86-30-6	0.067	ND	ND		ND	0.33	ND	ND	ND	ND
4-bromophenyl phenyl ether	101-55-3	0.1	ND	ND		ND	0.5	ND	ND	ND	ND
hexachlorobenzene	118-74-1	0.1	ND	ND		ND	0.5	ND	ND	ND	ND

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEC/ISB-29/6-S is a blind duplicate of sample GEO/ISB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Crocoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Result	Notes	Sample-Specific MDL		Sample-Specific MDL		Result	Notes	Sample-Specific MDL	Result	Notes
					CPT/TSB-01/8-10 2679073 3/15/97	CPT/TSB-01/44-46 2679074 3/15/97	CPT/TSB-02/9-11 2679075 3/15/97	CPT/TSB-03/20-22 2679076 3/15/97					
phenanthrene	85-01-8	0.033	ND		ND	ND	ND	ND	1.7	110	ND	1.7	190
anthracene	120-12-7	0.033	ND		ND	ND	ND	ND	0.17	18	ND	0.17	26
di-n-butyl phthalate	84-74-2	0.033	ND		ND	ND	ND	ND	0.17	ND	ND	0.17	ND
fluoranthene	206-44-0	0.033	ND		ND	ND	ND	ND	1.7	56	ND	1.7	98
butyl benzyl phthalate	85-68-7	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
benzo (a) anthracene	56-55-3	0.033	ND		ND	ND	ND	ND	0.17	9.5	ND	0.17	15
chrysene	218-01-9	0.033	ND		ND	ND	ND	ND	0.17	8.5	ND	0.17	14
3,3'-dichlorobenzidine	91-94-1	0.13	ND		ND	ND	ND	ND	0.67	ND	ND	0.67	ND
bis (2-ethylhexyl) phthalate	117-88-7	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
di-n-octyl phthalate	117-84-0	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
benzo (b) fluoranthene	205-98-2	0.067	ND		ND	ND	ND	ND	0.33	5.1	ND	0.33	8.9
benzo (k) fluoranthene	207-08-9	0.13	ND		ND	ND	ND	ND	0.67	1.9	ND	0.67	3.6
benzo (a) pyrene	50-32-8	0.067	ND		ND	ND	ND	ND	0.33	3.5	J	0.33	6.6
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND		ND	ND	ND	ND	0.33	1.2	J	0.33	2.7
dibenz (a,h) anthracene	53-70-3	0.067	ND		ND	ND	ND	ND	0.33	ND	J	0.33	0.79
benzo (ghi) perylene	191-24-2	0.067	ND		ND	ND	ND	ND	0.33	0.99	J	0.33	2.1
2-methylphenol	95-48-7	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	20
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND		ND	ND	ND	ND	0.5	ND	ND	0.5	ND
4-methylphenol	106-44-5	0.1	ND		ND	ND	ND	ND	0.5	ND	ND	0.5	ND
4-chlorophenol	106-47-8	0.1	ND		ND	ND	ND	ND	0.5	ND	ND	0.5	ND
2-methylnaphthalene	91-57-6	0.033	ND		ND	ND	ND	ND	1.7	79	ND	1.7	110
2,4,5-trichlorophenol	95-95-4	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
2-nitroaniline	88-74-4	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
3-nitroaniline	99-09-2	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
dibenzofuran	132-64-9	0.033	ND		ND	ND	ND	ND	0.17	26	ND	1.7	68
2,6-dinitrotoluene	608-29-2	0.067	ND		ND	ND	ND	ND	0.33	ND	ND	0.33	ND
4-nitroaniline	100-01-6	0.1	ND		ND	ND	ND	ND	0.5	ND	ND	0.5	ND
4,6-dinitro-2-methylphenol	534-57-1	0.17	ND		ND	ND	ND	ND	0.83	ND	ND	0.83	ND
carbazole	86-74-8	0.033	ND		ND	ND	ND	ND	0.17	11	ND	0.17	15

Notes

Analytical methods: SW-846 8240B for volatiles;
SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GBO/SB-29/G-8 is a blind duplicate of sample
GBO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.
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4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes									
TCL, Volatiles														
1,1-Dichloroethene	75-35-4	0.002	0.01	ND		0.01	ND		ND			ND		
Trichloroethene	79-01-6	0.001	0.005	J		0.005	0.007	J	ND			ND		
Benzene	71-43-2	0.001	0.005			0.005	0.14		ND			0.005	J	
Toluene	108-88-3	0.001	0.005			0.005	0.005		ND			0.015		
Chlorobenzene	108-90-7	0.001	0.005			0.005	0.005		ND			ND		
Xylene (total)	1330-20-7	0.001	0.005			0.35	0.005		0.78			ND		
Chloromethane	74-87-3	0.002	0.01	ND		0.01	ND		ND			ND		
Bromomethane	74-83-9	0.003	0.015	ND		0.015	ND		ND			ND		
Vinyl Chloride	75-01-4	0.002	0.01	ND		0.01	ND		ND			ND		
Chloroethane	75-00-3	0.003	0.015	ND		0.015	ND		ND			ND		
Methylene Chloride	75-09-2	0.002	0.01	ND		0.01	ND		ND			ND		
1,1-Dichloroethane	75-34-3	0.001	0.005	ND		0.005	ND		0.005			ND		
Chloroform	67-66-3	0.001	0.005	ND		0.005	ND		0.005			ND		
1,2-Dichloroethane	107-06-2	0.002	0.01	ND		0.01	ND		ND			ND		
1,1,1-Trichloroethane	71-55-5	0.001	0.005	ND		0.005	ND		ND			ND		
Carbon Tetrachloride	56-23-5	0.001	0.005	ND		0.005	ND		0.005			ND		
Bromodichloromethane	75-27-4	0.002	0.01	ND		0.01	ND		0.01			ND		
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.005	ND		0.005	ND		0.005			ND		
1,2-Dichloropropane	78-87-5	0.003	0.015	ND		0.015	ND		0.015			ND		
trans-1,3-Dichloropropene	10061-02-6	0.001	0.005	ND		0.005	ND		0.005			ND		
Dibromoethane	124-48-1	0.001	0.005	ND		0.005	ND		0.005			ND		
1,1,2-Trichloroethane	79-00-5	0.002	0.01	ND		0.01	ND		0.01			ND		
cis-1,3-Dichloropropene	10061-01-5	0.001	0.005	ND		0.005	ND		0.005			ND		
Bromoform	75-25-2	0.001	0.015	ND		0.015	ND		0.015			ND		
Tetrachloroethene	127-18-4	0.001	0.005	ND		0.005	ND		0.005			ND		
Ethylbenzene	100-41-4	0.001	0.005	ND		0.005	0.06		0.005			ND		
Acetone	67-64-1	0.007	0.035	J		0.068	J		0.035			1.5	J	
Carbon Disulfide	75-15-0	0.003	0.015	ND		0.015	ND		0.015			ND		
2-Butanone	78-93-3	0.007	0.035	ND		0.035	ND		0.035			ND		
Vinyl Acetate	108-05-4	0.003	0.015	ND		0.015	ND		0.015			ND		
2-Hexanone	591-78-6	0.003	0.015	ND		0.015	ND		0.015			ND		
4-Methyl-1-pentanone	108-10-1	0.003	0.015	ND		0.015	ND		0.015			ND		
Styrene	100-42-5	0.001	0.005	0.071		0.071	ND		0.1			ND		
trans-1,2-Dichloroethene	156-60-5	0.002	0.01	ND		0.01	ND		0.01			ND		
cis-1,2-Dichloroethene	156-59-2	0.002	0.01	ND		0.01	ND		0.01			ND		

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GBO/SB-2916-3 is a blind duplicate of sample
GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-1
Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes
TCL Semivolatiles													
phenol	108-95-2	0.033	1.7	46		0.67		ND	ND		ND	ND	
2-chlorophenol	95-57-8	0.033	0.17	ND		0.67		ND	ND		ND	ND	
1,4-dichlorobenzene	106-46-7	0.033	0.17	ND		0.67		ND	ND		ND	ND	
N-nitrosodi-n-propylamine	621-64-7	0.067	0.33	ND		1.3		ND	ND		ND	ND	
1,2,4-trichlorobenzene	120-82-1	0.033	0.17	ND		0.67		ND	ND		ND	ND	
4-chloro-3-methylphenol	59-50-7	0.067	0.33	ND		1.3		ND	ND		ND	ND	
acenaphthene	83-32-9	0.033	1.7	51		6.7		290	ND		ND	ND	
4-nitrophenol	100-07-7	0.17	0.83	ND		3.3		ND	ND		ND	ND	
2,4-dinitrotoluene	121-14-2	0.067	0.33	ND		1.3		ND	ND		ND	ND	
pentachlorophenol	87-86-5	0.17	0.83	ND		3.3		ND	ND		ND	ND	
pyrene	129-00-0	0.067	0.33	26		13		250	ND		ND	ND	
2-nitrophenol	88-75-5	0.067	0.33	ND		1.3		ND	ND		ND	ND	
2,4-dimethylphenol	105-67-9	0.067	0.33	17		1.3		ND	ND		ND	ND	
2,4-dichlorophenol	120-83-2	0.033	0.17	ND		0.67		ND	ND		ND	ND	
2,4,6-trichlorophenol	88-06-2	0.067	0.33	ND		1.3		ND	ND		ND	ND	
2,4-dinitrophenol	51-28-5	0.17	0.83	ND		3.3		ND	ND		ND	ND	
bis (2-chloroethyl) ether	111-44-4	0.067	0.33	ND		1.3		ND	ND		ND	ND	
1,3-dichlorobenzene	541-73-1	0.033	0.17	ND		0.67		ND	ND		ND	ND	
1,2-dichlorobenzene	95-50-1	0.033	0.17	ND		0.67		ND	ND		ND	ND	
hexachloroethane	67-72-1	0.067	0.33	ND		1.3		ND	ND		ND	ND	
nitrobenzene	98-95-3	0.033	0.17	ND		0.67		ND	ND		ND	ND	
isophorone	78-59-1	0.067	0.33	ND		1.3		ND	ND		ND	ND	
bis (2-chloroethoxy) methane	111-91-1	0.033	0.17	ND		0.67		ND	ND		ND	ND	
naphthalene	91-20-3	0.033	1.7	200		6.7		910	ND		0.05	J	0.33
hexachlorobutadiene	87-68-3	0.067	0.33	ND		1.3		ND	ND		ND	ND	
hexachlorocyclopentadiene	77-47-4	0.17	0.83	ND		3.3		ND	ND		ND	ND	
2-chloronaphthalene	91-58-7	0.033	0.17	ND		0.67		ND	ND		ND	ND	
acenaphthylene	208-96-8	0.033	0.17	2.7		0.67		10	ND		ND	ND	
dimethyl phthalate	131-11-3	0.033	0.17	ND		0.67		ND	ND		ND	ND	
fluorene	86-73-7	0.033	1.7	64		6.7		330	ND		0.049	J	0.17
4-chlorophenyl phenyl ether	7005-72-3	0.067	0.33	ND		1.3		ND	ND		ND	ND	
diethyl phthalate	84-66-2	0.067	0.33	ND		1.3		ND	ND		ND	ND	
N-nitrosodiphenylamine	86-30-6	0.067	0.33	ND		1.3		ND	ND		ND	ND	
4-bromophenyl phenyl ether	101-55-3	0.1	0.5	ND		2		ND	ND		ND	ND	
hexachlorobenzene	118-74-1	0.1	0.5	ND		2		ND	ND		ND	ND	

Notes

Analytical methods: SW-846 8240B for volatiles;
SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes									
phenanthrene	85-01-8	0.033	1.7	130		6.7	710		ND	ND		0.16	J	0.17
anthracene	120-12-7	0.033	0.17	20		0.67	98		ND	ND		ND		4.8
di-n-butyl phthalate	84-74-2	0.033	0.17	ND		0.67	ND		ND	ND		ND		
fluoranthene	206-44-0	0.033	1.7	71		6.7	430		ND	ND		0.094	J	0.17
butyl benzyl phthalate	85-68-7	0.067	0.33	ND		1.3	ND		ND	ND		ND		8.2
benzo (a) anthracene	56-55-3	0.033	0.17	12		0.67	69		ND	ND		ND		1.3
chloroene	218-01-9	0.033	0.17	10		0.67	62		ND	ND		ND		1.3
3,3-dichlorobenzidine	91-94-1	0.13	0.67	ND		2.7	ND		ND	ND		ND		
bis (2-ethylhexyl) phthalate	117-81-7	0.067	0.33	ND		1.3	ND		ND	ND		ND		
di-n-octyl phthalate	117-84-0	0.067	0.33	ND		1.3	ND		ND	ND		ND		
benzo (b) fluoranthene	205-99-2	0.067	0.33	6.6		1.3	38		ND	ND		ND		0.89
benzo (k) fluoranthene	207-08-9	0.13	0.67	2.6		2.7	13		ND	ND		ND		J
benzo (a) pyrene	50-32-8	0.067	0.33	4.9		1.3	26		ND	ND		ND		0.69
indeno (1,2,3- <i>cd</i>) pyrene	193-39-5	0.067	0.33	2		1.3	8.5		ND	ND		ND		0.38
dibenz (a,h) anthracene	53-70-3	0.067	0.33	0.58	J	1.3	2.5	J	ND	ND		0.09	J	
benzo (ghi) perylene	191-24-2	0.067	0.33	1.5	J	1.3	6.5	J	ND	ND		ND		0.28
2-methylphenol	95-48-7	0.067	0.33	17		1.3	ND		ND	ND		ND		0.33
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	0.5	ND		1.3	ND		ND	ND		ND		
4-methylphenol	106-44-5	0.1	5	71		2	ND		ND	ND		ND		
4-chloroaniline	106-47-8	0.1	0.5	ND		2	ND		ND	ND		ND		
2-methylnaphthalene	91-57-6	0.033	1.7	77		6.7	440		ND	ND		ND		0.17
2,4,5-trichlorophenol	95-95-4	0.067	0.33	ND		1.3	ND		ND	ND		ND		
2-nitroaniline	88-74-4	0.067	0.33	ND		1.3	ND		ND	ND		ND		
3-nitroaniline	99-09-2	0.067	0.33	ND		1.3	ND		ND	ND		ND		
dibenzofuran	132-64-9	0.033	1.7	48		6.7	270		ND	ND		0.037	J	0.17
2,6-dinitrobenzene	606-20-2	0.067	0.33	ND		1.3	ND		ND	ND		ND		
4-nitroaniline	100-01-6	0.1	0.5	ND		2	ND		ND	ND		ND		
4,6-dinitro-2-methylphenol	534-52-1	0.17	0.33	ND		3.3	ND		ND	ND		ND		
carbazole	86-74-8	0.033	0.17	11		0.67	69		ND	ND		0.97		

Notes

Analytical method: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample CPT/SB-296-8 is a blind duplicate of sample

CPT/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-1 Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	GEO/SB-01/10-12			GEO/SB-02/10-12			GEO/SB-03/8-9.3			GEO/SB-04/10-12			GEO/SB-05/4-9		
			Lab Sample ID Date Collected	2680801 3/18/97	Result	Notes	Result	Notes	Result	Notes	Notes	Result	Notes	Notes	Sample-Specific MDL	Result	Notes
TCL Volatiles																	
1,1-Dichloroethane	75-35-4	0.002			ND		ND		ND		ND		ND		0.01	ND	
Trichloroethene	79-01-6	0.001			ND		ND		ND		ND		ND		0.005	ND	
Benzene	71-43-2	0.001			ND		ND		ND		ND		ND		0.005	ND	
Toluene	108-88-3	0.001			ND		ND		ND		ND		ND		0.05	ND	
Chlorobenzene	108-90-7	0.001			ND		ND		ND		ND		ND		0.005	ND	
Xylene (total)	1330-20-7	0.001			ND		ND		ND		ND		ND		0.005	1.2	
Chloromethane	74-87-3	0.002			ND		ND		ND		ND		ND		0.01	ND	
Bromomethane	74-83-9	0.003			ND		ND		ND		ND		ND		0.015	ND	
Vinyl Chloride	75-01-4	0.002			ND		ND		ND		ND		ND		0.01	ND	
Chloroethane	75-00-3	0.003			ND		ND		ND		ND		ND		0.015	ND	
Methylene Chloride	75-00-2	0.002			ND		ND		ND		ND		ND		0.01	ND	
1,1-Dichloroethane	75-34-3	0.001			ND		ND		ND		ND		ND		0.005	ND	
Chloroform	67-66-3	0.001			ND		ND		ND		ND		ND		0.005	ND	
1,2-Dichloroethane	107-06-2	0.002			ND		ND		ND		ND		ND		0.01	ND	
1,1,1-Trichloroethane	71-55-6	0.001			ND		ND		ND		ND		ND		0.005	ND	
Carbon Tetrachloride	56-23-5	0.001			ND		ND		ND		ND		ND		0.005	ND	
Bromodichloromethane	75-27-4	0.002			ND		ND		ND		ND		ND		0.01	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001			ND		ND		ND		ND		ND		0.005	ND	
1,2-Dichloropropane	78-87-5	0.003			ND		ND		ND		ND		ND		0.015	ND	
trans-1,3-Dichloropropene	10061-02-6	0.001			ND		ND		ND		ND		ND		0.005	ND	
Dibromoacetonemethane	124-48-1	0.001			ND		ND		ND		ND		ND		0.005	ND	
1,1,2-Trichloroethane	79-00-5	0.002			ND		ND		ND		ND		ND		0.01	ND	
cis-1,3-Dichloropropene	10061-01-5	0.001			ND		ND		ND		ND		ND		0.005	ND	
Bromoform	75-25-2	0.003			ND		ND		ND		ND		ND		0.005	ND	
Tetrachloroethene	127-18-4	0.001			ND		ND		ND		ND		ND		0.005	ND	
Ethylbenzene	100-41-4	0.001			ND		ND		ND		ND		ND		0.003	0.23	J
Acetone	67-64-1	0.007			ND		ND		ND		ND		ND		0.073	ND	
Carbon Disulfide	75-15-0	0.003			ND		ND		ND		ND		ND		0.015	ND	
2-Butanone	78-93-3	0.007			ND		ND		ND		ND		ND		0.035	ND	
Vinyl Acetate	108-05-4	0.003			ND		ND		ND		ND		ND		0.015	ND	
2-Hexanone	59-78-6	0.003			ND		ND		ND		ND		ND		0.015	ND	
4-Methyl-2-pentanone	108-10-1	0.003			ND		ND		ND		ND		ND		0.015	ND	
Styrene	100-42-5	0.001			ND		ND		ND		ND		ND		0.005	ND	
trans-1,2-Dichloroethene	156-60-5	0.002			ND		ND		ND		ND		ND		0.01	ND	
cis-1,2-Dichloroethene	156-59-2	0.002			ND		ND		ND		ND		ND		0.01	ND	

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-3 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Crossotting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Sample-Specific MDL	Result	Notes	
TCL Semivolatiles														
phenol	108-95-2	0.053	ND		ND		ND		ND		0.33		ND	
2-chlorophenol	95-57-8	0.033	ND		ND		ND		ND		0.33		ND	
1,4-dichlorobenzene	106-46-7	0.033	ND		ND		ND		ND		0.33		ND	
N-nitrosodi-n-propylamine	621-64-7	0.067	ND		ND		ND		ND		0.67		ND	
1,2,4-trichlorobenzene	120-82-1	0.033	ND		ND		ND		ND		0.33		ND	
4-chloro-3-methylphenol	59-50-7	0.067	ND		ND		ND		ND		0.67		ND	
acenaphthene	85-32-9	0.033	ND		ND		ND		ND		3.3		63	
4-nitrophenol	100-02-7	0.17	ND		ND		ND		ND		1.7		ND	
2,4-dinitrotoluene	121-14-2	0.067	ND		ND		ND		ND		0.67		ND	
pentachlorophenol	87-86-5	0.17	ND		ND		ND		ND		1.7		ND	
pyrene	129-00-0	0.067	ND		ND		ND		ND		6.7		180	
2-nitrophenol	88-75-5	0.067	ND		ND		ND		ND		0.67		ND	
2,4-dimethylphenol	105-67-9	0.067	ND		ND		ND		ND		0.67		1.2	
2,4-dichlorophenol	120-83-2	0.033	ND		ND		ND		ND		0.33		ND	
2,4,6-trichlorophenol	88-06-2	0.067	ND		ND		ND		ND		0.67		ND	
2,4-dinitrophenol	51-28-5	0.17	ND		ND		ND		ND		1.7		ND	
bis (2-chloroethyl) ether	111-44-4	0.067	ND		ND		ND		ND		0.67		ND	
1,3-dichlorobenzene	541-73-1	0.033	ND		ND		ND		ND		0.33		ND	
1,2-dichlorobenzene	95-50-1	0.033	ND		ND		ND		ND		0.33		ND	
hexachlorobutane	67-72-1	0.067	ND		ND		ND		ND		0.67		ND	
nitrobenzene	98-95-3	0.033	ND		ND		ND		ND		0.33		ND	
isopropone	78-58-1	0.067	ND		ND		ND		ND		0.67		ND	
bis (2-chloroethyl) methane	111-91-1	0.033	ND		ND		ND		ND		0.33		ND	
naphthalene	91-20-3	0.033	0.098	J	ND		0.2		ND		3.3		400	
hexachlorobutadiene	87-68-3	0.067	ND		ND		ND		ND		0.67		ND	
hexachlorocyclopentadiene	77-47-4	0.17	ND		ND		ND		ND		1.7		ND	
2-chloronaphthalene	91-58-7	0.033	ND		ND		ND		ND		0.33		ND	
acenaphthylene	208-96-8	0.033	ND		ND		ND		ND		0.33		8.3	
dimethyl phthalate	131-11-3	0.033	ND		ND		ND		ND		0.33		ND	
fluorene	86-73-7	0.033	ND		ND		ND		ND		3.3		130	
4-chlorophenyl phenyl ether	7005-72-3	0.067	ND		ND		ND		ND		0.67		ND	
diethyl phthalate	84-66-2	0.067	ND		ND		ND		ND		0.67		ND	
N-nitrosodiphenylamine	86-30-6	0.067	ND		ND		ND		ND		0.67		ND	
4-bromophenyl phenyl ether	101-55-3	0.1	ND		ND		ND		ND		1		ND	
hexachlorobenzene	118-74-1	0.1	ND		ND		ND		ND		1		ND	

Notes

Analytical methods: SW-846 \$240B for volatiles;

SW-846 \$270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-3 is a blind duplicate of sample GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4.1
Summary of Subsurface Soil Analytical Results
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	GEO/SB-01/10-12		GEO/SB-02/10-12		GEO/SB-03/8-9.3		GEO/SB-04/10-12		Sample-Specific MDL	Result	Notes
			Lab Sample ID	Date Collected	GEO/SB-0801	3/18/97	2680802	3/18/97	2680803	3/18/97			
phenanthrene	85-01-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	360	
anthracene	120-12-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	98	
di-n-butyl phthalate	84-74-2	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND	
fluoranthene	206-44-0	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	220	
butyl benzyl phthalate	85-68-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
benzo (a) anthracene	56-55-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	S2	
chrysene	218-01-9	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	48	
3,3'-dichlorobenzidine	91-94-1	0.13	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
di-n-octyl phthalate	117-84-0	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
benzo (b) fluoranthene	205-99-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	36	
benzo (k) fluoranthene	207-08-9	0.13	ND	ND	ND	ND	ND	ND	ND	ND	1.3	14	
benzo (a) pyrene	50-32-8	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	24	
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	9.6	
benzo (a,h) anthracene	53-70-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	2.7	J
benzo (ghi) perylene	191-24-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	6.4	
2-methylphenol	95-48-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
4-methylphenol	106-44-5	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
4-chloroaniline	106-47-8	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
2-methylnaphthalene	91-57-6	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	220	
2,4,5-trichlorophenol	95-95-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
2-nitroaniline	88-74-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
3-nitroaniline	99-09-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
dibenzofuran	132-64-9	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	130	
2,6-dinitrotoluene	606-20-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	
4-nitroaniline	100-01-6	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	
carbazole	86-74-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	S2	

Notes

Analytical methods: SW-846 8240B for volatiles;
SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-2916-8 is a blind duplicate of sample
GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.
R - Unusable result; analyte may or may not be present in the sample.

4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes
TCL Volatiles													
1,1-Dichloroethene	75-35-4	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
Trichloroethene	79-01-6	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Benzene	71-43-2	0.001	0.005	ND		0.002	J	0.005	0.008	J	0.005	ND	
Toluene	108-88-3	0.001	0.005	0.045		ND		0.005	0.095		0.005	0.014	J
Chlorobenzene	108-90-7	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Xylene (total)	1330-20-7	0.001	0.005	1.2		0.001	J	0.005	1.7		0.005	0.49	
Chloromethane	74-87-3	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
Bromomethane	74-83-9	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
Vinyl Chloride	75-01-4	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
Chloroethane	75-00-3	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
Methylene Chloride	75-09-2	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
1,1-Dichloroethane	75-34-3	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Chloroform	67-66-3	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
1,2-Dichloroethane	107-06-2	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
1,1,1-Trichloroethane	71-55-6	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Carbon Tetrachloride	56-23-5	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Bromodichloromethane	75-27-4	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
1,2-Dichloropropane	78-87-5	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
trans-1,3-Dichloropropene	10061-92-6	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Dibromoethane	124-48-1	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
1,1,2-Trichloroethane	79-00-5	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
cis-1,3-Dichloropropene	10061-01-5	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Bromoform	75-25-2	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Tetrachloroethene	127-18-4	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
Ethylenes	100-41-4	0.001	0.005	0.21		ND		0.005	0.48	J	0.005	0.068	
Acetone	67-64-1	0.007	0.035	0.053	J	ND		0.035	0.044	J	0.035	ND	
Carbon Disulfide	75-15-0	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
2-Butanone	78-93-3	0.007	0.035	ND		ND		0.035	ND		0.035	ND	
Vinyl Acetate	108-05-4	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
2-Hexanone	591-78-6	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
4-Methyl-2-pentanone	108-10-1	0.003	0.015	ND		ND		0.015	ND		0.015	ND	
Styrene	100-42-5	0.001	0.005	ND		ND		0.005	ND		0.005	ND	
trans-1,2-Dichloroethene	156-60-5	0.002	0.01	ND		ND		0.01	ND		0.01	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	0.01	ND		ND		0.01	ND		0.01	ND	

Notes

Analytical method: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-3 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4.1 Summary of Subsurface Soil Analytical Results

Former Gulf States Cresotting Site Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes
TCL Semivolatiles											
phenol	108-95-2	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
2-chlorophenol	95-57-8	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
1,4-dichlorobenzene	106-46-7	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
N-nitrosodi-n-propylamine	621-64-7	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
1,2-dichlorobenzene	120-82-1	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
1,4-dichlorobiphenol	59-50-7	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
acensaphathene	83-32-9	0.033	1.7	130	ND	ND	1.7	150	ND	4.2	200
4-nitrophenol	100-02-7	0.17	0.83	ND		ND	0.83	ND	ND	0.83	ND
121-14-2	0.067	0.33	ND		ND	ND	0.33	ND	ND	0.33	ND
2,4-dinitrotoluene	87-86-5	0.17	0.83	ND		ND	0.83	ND	ND	0.83	ND
pentachlorophenol	129-00-0	0.067	3.3	140	ND	ND	3.3	120	ND	8.3	230
pyrene	88-75-5	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
2-nitrophenol	105-67-9	0.067	0.33	1	J	ND	0.33	1.3	J	0.33	ND
2,4-dimethylphenol	120-83-2	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
2,4-dichlorophenol	88-06-2	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
2,4,6-trichlorophenol	51-28-5	0.17	0.83	ND		ND	0.83	ND	ND	0.83	ND
bis (2-chlorothi) ether	111-44-4	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
1,3-dichlorobenzene	541-73-1	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
1,2-dichlorobenzene	95-50-1	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
hexachloroethane	67-72-1	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
nitrobenzene	98-95-3	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
isophorone	78-59-1	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
bis (2-chloroethoxy) methane	111-91-1	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
naphthalene	91-20-3	0.033	3.3	380	ND	ND	3.3	420	ND	4.2	210
hexachlorobutadiene	87-68-3	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
hexachlorocyclopentadiene	77-47-4	0.17	0.83	ND		ND	0.83	ND	ND	0.83	ND
2-chloronaphthalene	91-58-7	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
acenaphthylene	208-96-8	0.033	0.117	5.5	ND	ND	0.117	5.2	ND	0.117	7.7
dimeethyl phthalate	131-11-3	0.033	0.117	ND		ND	0.117	ND	ND	0.117	ND
fluorene	86-73-7	0.033	1.7	140	ND	ND	1.7	160	ND	4.2	250
4-chlorophenyl phenyl ether	7005-72-3	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
diethyl phthalate	84-66-2	0.067	0.33	ND		ND	0.33	ND	ND	0.33	ND
N-nitrosodiphenylamine	86-30-6	0.067	0.33	ND		ND	0.33	ND	ND	0.5	ND
4-bromophenyl phenyl ether	101-55-3	0.1	0.5	ND		ND	0.5	ND	ND	0.5	ND
hexachlorobenzene	118-74-1	0.1	0.5	ND		ND	0.5	ND	ND	0.5	ND

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-1
Summary of Subsurface Soil Analytical Results

**Former Gulf States Creosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Standard MDL	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes
MP&A Sample ID	Lab Sample Number	Date Collected									
phenanthrene	85-01-8	0.033	3.3	350	0.21	J	3.3	370	4.2	510	
anthracene	120-12-7	0.033	1.7	78	0.13	J	1.7	55	4.2	120	
di-n-butyl phthalate	84-74-2	0.033	0.17	ND	ND		0.17	ND	0.17	ND	
fluoranthene	206-44-0	0.033	1.7	180	0.16	J	1.7	170	4.2	250	
butyl benzyl phthalate	85-68-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
benzo (a) anthracene	56-55-3	0.033	1.7	44	0.043	J	1.7	40	4.2	61	
cinnene	218-01-9	0.033	1.7	41	ND		1.7	33	4.2	52	
3,3'-dichlorobenzidine	91-94-1	0.13	0.67	ND	ND		0.67	ND	0.67	ND	
bis (2-ethylhexyl) phthalate	117-81-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
di-n-octyl phthalate	117-84-0	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
benzo (b) fluoranthene	205-99-2	0.067	0.33	25	ND		0.33	18	8.3	33	J
benzo (k) fluoranthene	207-08-9	0.13	0.67	8.7	ND		0.67	6.7	6.7	6.7	
benzo (a) pyrene	50-32-8	0.067	0.33	17	ND		0.33	13	0.33	22	
indeno (1,2,3-cd) pyrene	193-39-5	0.067	0.33	6.3	ND		0.33	4.1	0.33	8.7	
dibenz (a,h) anthracene	53-70-3	0.067	0.33	1.8	ND		0.33	1.4	0.33	3.4	
benzo (g,h) perylene	191-24-2	0.067	0.33	4.8	ND		0.33	2.4	0.33	6.4	
2-methylphenol	95-48-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
2,2-dioxypin (1-chloropropane)	108-60-1	0.1	0.5	ND	ND		0.5	ND	0.5	ND	
4-methylphenol	106-44-5	0.1	0.5	ND	ND		0.5	ND	0.5	ND	
4-chloroaniline	106-47-8	0.1	0.5	ND	ND		0.5	ND	0.5	ND	
2-methylnaphthalene	91-57-6	0.033	1.7	180	ND		1.7	190	4.2	230	
2,4,5-trichlorophenol	95-95-4	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
2-nitroaniline	88-74-4	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
3-nitroaniline	99-09-2	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
dibenzofuran	132-64-9	0.033	1.7	120	ND		1.7	130	4.2	180	
2,6-dinitrotoluene	606-20-2	0.067	0.33	ND	ND		0.33	ND	0.33	ND	
4-nitroaniline	100-01-6	0.1	0.5	ND	ND		0.5	ND	0.5	ND	
4,6-dinitro-2-methylphenol	534-52-1	0.17	0.33	ND	ND		0.33	ND	0.33	ND	
carbazole	86-74-8	0.033	1.7	48	0.056	J	1.7	38	4.2	27	J

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 82270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

T-1A
Summary of Subsurface Soil Analytical Results
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Sample-Specific MDL	Result	Notes
Pesticides/PCBs				
Gamma BHC - Lindane	58-89-9	0.0006	ND	
Heptachlor	76-44-8	0.001	0.01	
Aldrin	309-00-2	0.001	ND	
DDT	50-29-3	0.003	ND	
Dieldrin	60-57-1	0.002	ND	
Ecdrin	72-20-8	0.002	ND	
Methoxychlor	72-43-5	0.008	ND	
Alpha BHC	319-84-6	0.0004	ND	
Beta BHC	319-85-7	0.001	ND	
Delta BHC	319-86-8	0.0006	ND	
Heptachlor Epoxide	1024-57-3	0.0006	ND	
DDE	72-55-9	0.003	ND	
DDD	72-54-8	0.001	ND	
Toxaphene	8001-35-2	0.1	ND	J
Endosulfan I	959-98-8	0.001	0.004	
Endosulfan II	33213-95-9	0.004	ND	
Endosulfan Sulfate	1031-07-8	0.003	ND	
Endrin Aldehyde	7421-92-4	0.006	ND	
PCB-1016	12674-11-2	0.03	ND	
PCB-1221	11104-38-2	0.05	ND	
PCB-1232	11141-16-5	0.03	ND	
PCB-1242	53469-21-9	0.01	ND	
PCB-1248	12672-29-6	0.04	ND	
PCB-1254	11097-69-1	0.1	ND	
PCB-1260	11096-52-5	0.2	ND	
Ecdrin Ketone	53494-70-5	0.005	ND	
Alpha Chlordane	5103-71-9	0.001	ND	
Gamma Chlordane	5103-74-2	0.0002	ND	

Notes
Analytical methods: SW-846 8081.
All results are reported on an "as received" basis in mg/kg.
J - Estimated value.

MPA21-02
Summary of DNAPL Analytical Results

**Former Gulf States Creosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	Result	Notes	Method Detection Limit		Result	Notes
					MW-1 2677693 3/13/97	MW-2 2677694 3/13/97		
TCL Volatiles								
1,1-Dichloroethene	75-35-4	13	ND	J	13	ND	ND	J
Trichloroethene	79-01-6	6.3	ND	J	6.3	92	J	J
Benzene	71-43-2	6.3	36	J	6.3	350	J	J
Toluene	108-88-3	6.3	190	J	6.3	ND	J	J
Chlorobenzene	108-90-7	6.3	ND	J	6.3	100	J	J
Xylene (total)	1330-20-7	6.3	1000	J	6.3	13	J	J
Chloromethane	74-87-3	13	ND	J	19	ND	J	J
Bromomethane	74-83-9	19	ND	J	13	ND	J	J
Vinyl Chloride	75-01-4	13	ND	J	19	ND	J	J
Chloroethane	75-00-3	19	ND	J	13	ND	J	J
Methylene Chloride	75-09-2	13	ND	J	13	ND	J	J
1,1-Dichloroethane	75-34-3	6.3	ND	J	6.3	6.3	J	J
Chloroform	67-66-3	6.3	ND	J	13	ND	J	J
1,2-Dichloroethane	107-06-2	13	ND	J	6.3	ND	J	J
1,1,1-Trichloroethane	71-55-6	6.3	ND	J	6.3	ND	J	J
Carbon Tetrachloride	56-23-5	6.3	ND	J	6.3	ND	J	J
Bromodichloromethane	75-27-4	13	ND	J	13	ND	J	J
1,1,2,2-Tetrachloroethane	79-34-5	6.3	ND	J	6.3	ND	J	J
1,2-Dichloropropane	78-87-5	19	ND	J	19	ND	J	J
trans-1,3-Dichloropropene	10061-02-6	6.3	ND	J	6.3	ND	J	J
Dibromoethane	124-48-1	6.3	ND	J	6.3	ND	J	J
1,1,2-Trichloroethane	79-00-5	13	ND	J	13	ND	J	J
cis-1,3-Dichloropropene	10061-01-5	6.3	ND	J	6.3	ND	J	J
Bromoform	75-25-2	6.3	ND	J	6.3	ND	J	J
Tetrachloroethene	127-18-4	6.3	ND	J	6.3	ND	J	J
Ethylbenzene	100-41-4	6.3	180	J	6.3	44	J	J
Acetone	67-04-1	44	ND	J	19	ND	J	J
Carbon Disulfide	75-15-0	19	ND	J	44	ND	J	J
2-Butanone	78-93-3	44	ND	J	19	ND	J	J
Vinyl Acetate	108-05-4	19	ND	J	19	ND	J	J
2-Hexanone	591-78-6	19	ND	J	19	ND	J	J
4-Methyl-2-pentanone	108-10-1	19	ND	J	240	ND	J	J
Styrene	100-42-5	6.3	120	J	13	ND	J	J
trans-1,2-Dichloroethene	136-60-5	13	ND	J	13	ND	J	J
cis-1,2-Dichloroethene	156-59-2	13	ND	J	13	ND	J	J

Notes

Analytical methods: Volatiles by SW-846 8240B;

Semivolatiles by SW-846 8270B.

All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-3
Summary of DNAPL Analytical Results

**Former Gulf States Creosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	Result	Notes	Method Detection Limit		Result	Notes
					MW-1	MW-2		
TCL Semivolatiles								
phenol	108-95-2	5	ND	J	10	130	J	
2-chlorophenol	95-57-8	5	ND	J	5	ND	J	
1,4-dichlorobenzene	106-46-7	5	ND	J	5	ND	J	
N-nitrosodi-n-propylamine	621-64-7	10	ND	J	10	ND	J	
1,2,4-trichlorobenzene	120-83-1	5	ND	J	5	ND	J	
4-chloro-3-methylphenol	59-50-7	10	ND	J	10	ND	J	
acenaphthene	83-32-9	400	18000	J	800	17000	J	
4-nitrophenol	100-02-7	25	ND	J	25	ND	J	
2,4-dinitroclusene	121-14-2	10	ND	J	10	ND	J	
pentachlorophenol	87-86-5	25	ND	J	25	ND	J	
pyrene	129-06-0	800	15000	J	1600	14000	J	
2-nitrophenol	88-75-5	10	ND	J	10	ND	J	
2,4-dimethylphenol	105-67-9	20	140	J	20	2900	J	
2,4-dichlorophenol	120-83-2	5	ND	J	5	ND	J	
2,4,6-trichlorophenol	88-06-2	10	ND	J	10	ND	J	
2,4-dinitrophenol	51-28-5	25	ND	J	25	ND	J	
bis (2-chloroethyl) ether	111-44-4	10	ND	J	10	ND	J	
1,3-dichlorobenzene	541-73-1	5	ND	J	5	ND	J	
1,2-dichlorobenzene	95-50-1	5	ND	J	5	ND	J	
hexachloroethane	67-72-1	10	ND	J	10	ND	J	
nitrobenzene	98-95-3	5	ND	J	5	ND	J	
isophorone	78-59-1	10	ND	J	10	ND	J	
bis (2-chloroethoxy) methane	111-91-1	5	ND	J	5	ND	J	
naphthalene	91-20-3	400	62000	J	800	96000	J	
hexachlorobutadiene	87-68-3	10	ND	J	10	ND	J	
hexachlorocyclopentadiene	77-47-4	25	ND	J	25	ND	J	
2-chloronaphthalene	91-58-7	5	ND	J	5	ND	J	
acenaphthylene	208-96-8	10	720	J	10	1160	J	
dimethyl phthalate	131-11-3	5	ND	J	5	ND	J	
fluorene	86-73-7	400	18000	J	800	18000	J	
4-chlorophenyl phenyl ether	7005-72-3	10	ND	J	10	ND	J	
diethyl phthalate	84-66-2	10	ND	J	10	ND	J	
N-nitrosodiphenylamine	86-30-6	10	ND	J	10	ND	J	
4-bromophenyl phenyl ether	101-55-3	15	ND	J	15	ND	J	
hexachlorobenzene	118-74-1	15	ND	J	15	ND	J	

Notes:

Analytical methods: Volatiles by SW-846 8240B;

Semivolatiles by SW-846 8270B.

All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

**MP-A Sample ID
Lab Sample Number
Date Collected**

Summary of DNAPL Analytical Results
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Result	Notes	Method Detection Limit	Result	Notes
phenanthrene	85-01-8	400	41000	J	800	47000	J
anthracene	120-12-7	400	4600	J	800	6500	J
di-n-butyl phthalate	84-74-2	5	ND	J	5	ND	J
fluoranthene	206-44-0	400	21000	J	800	19000	J
benzyl benzyl phthalate	85-68-7	10	ND	J	10	ND	J
benzo (a) anthracene	56-55-3	400	4600	J	800	3500	J
chrysene	218-01-9	400	3900	J	800	3100	J
3,3'-dichlorobenzidine	91-94-1	20	ND	J	20	ND	J
bis (2-ethylhexyl) phthalate	117-81-7	10	ND	J	10	ND	J
di-n-octyl phthalate	117-84-0	10	ND	J	10	ND	J
benzo (b) fluoranthene	205-99-2	800	2100	J	1600	1800	J
benzo (k) fluoranthene	207-03-9	40	1000	J	40	850	J
benzo (a) pyrene	50-32-8	800	1500	J	20	1800	J
indeno (1,2,3-cd) pyrene	193-39-5	20	700	J	20	740	J
dibenz (a,h) anthracene	53-70-3	20	180	J	20	210	J
benzo (ghi) perylene	191-24-2	20	490	J	20	530	J
2-methylphenol	95-48-7	10	ND	J	20	400	J
2,2'-oxybis (1-chloropropane)	108-60-1	15	ND	J	15	ND	J
4-methylphenol	100-44-5	15	ND	J	30	810	J
4-chloroaniline	106-47-8	15	ND	J	15	ND	J
2-methylnaphthalene	91-57-6	400	28000	J	800	27000	J
2,4,5-trichlorophenol	95-95-4	10	ND	J	10	ND	J
2-nitroaniline	88-74-4	10	ND	J	10	ND	J
3-nitroaniline	99-09-2	10	ND	J	10	ND	J
diphenzofuran	132-64-9	400	15000	J	800	15000	J
2,6-dinitrotoluene	606-20-2	10	ND	J	10	ND	J
4-nitroaniline	100-01-6	15	ND	J	15	ND	J
4,6-dinitro-2-methylphenol	534-52-1	25	ND	R	25	ND	R
carbazole	86-74-8	400	2300	J	800	3000	J
Moisture Content		0.08	48.8		0.08	45.7	

Notes

Analytical methods: Volatiles by SW-846 8240B;

Semivolatiles by SW-846 8270B.

All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-4
Summary of Ground Water Analytical Results

**Former Gulf States Creosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	Result	Notes								
Volatiles												
2-Butanone	78-93-3	0.003	ND	ND								
Bromomethane	74-83-9	0.003	ND	ND								
Chloromethane	74-87-3	0.003	ND	ND								
Vinyl Chloride	75-01-4	0.002	ND	ND								
Chloroethane	75-00-3	0.003	ND	ND								
Methylene Chloride	75-09-2	0.002	ND	ND								
Acetone	67-64-1	0.006	ND	ND								
Carbon Disulfide	75-15-0	0.003	0.023	0.027	ND	ND	ND	ND	ND	ND	ND	0.057
1,1-Dichloroethene	75-35-4	0.001	ND	ND								
1,1-Dichloroethane	75-34-3	0.002	ND	ND								
Chloroform	67-66-3	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006
1,2-Dichloroethane	107-06-2	0.002	ND	ND								
1,1,1-Trichloroethane	71-55-6	0.001	ND	ND								
Carbon Tetrachloride	56-23-5	0.001	ND	ND								
Vinyl Acetate	108-05-4	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Bromodichloromethane	75-27-4	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	J
1,2-Dichloropropane	78-87-5	0.001	ND	ND								
trans-1,3-Dichloropropene	10061-02-6	0.001	ND	ND								
Trichloroethene	79-01-6	0.001	ND	ND								
Dibromoethermethane	124-48-1	0.002	ND	ND								
1,1,2-Trichloroethane	79-00-5	0.002	ND	ND								
Benzene	71-43-2	0.001	ND	ND								
cis-1,3-Dichloropropene	10061-01-5	0.001	ND	ND								
Bromoform	75-25-2	0.001	ND	ND								
2-Hexanone	591-78-6	0.007	ND	ND								
4-Methyl-2-pentanone	108-10-1	0.005	ND	ND								
Tetrachloroethene	127-18-4	0.001	ND	ND								
1,1,2,2-Tetrachloroethane	79-34-5	0.002	ND	ND								
Toluene	108-88-3	0.002	ND	ND								
Chlorobenzene	108-90-7	0.001	ND	ND								

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semi揮olatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;
Inorganics by appropriate SW-846 methods

All results are reported in mg/l.

(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.
(b) Sample MW-23 is a blind duplicate of sample MW-03.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

4-4 Summary of Ground Water Analytical Results

Former Gulf States Creosolizing Site Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
					MW-03 2677529 3/12/97	MW-04 2677530 3/12/97	MW-04 dup (a) 2677531 3/12/97	MW-05 2677535 3/12/97	MW-01 2677536 3/12/97			
Ethylbenzene	100-41-4	0.002	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Styrene	100-42-5	0.001	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Xylene (total)	1330-20-7	0.001	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	0.002	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	0.002	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Metals												
Aluminum	7429-90-5	0.057	11.1	16.6	19.8	R	ND	ND	ND	R	ND	R
Antimony	7440-36-0	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	R
Barium	7440-39-3	0.0022	0.25	0.49	0.51	J	0.0042	0.0022	J	0.0071	J	0.27
Beryllium	7440-41-7	0.0013	0.0043	J	0.0042	J	ND	ND	ND	ND	ND	0.0017
Cadmium	7440-43-9	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	J
Calcium	7440-70-2	0.03	17.7	42.6	42.9	J	0.0185	J	0.0217	J	0.071	J
Chromium	7440-47-3	0.0043	0.028	J	0.0156	J	0.0156	J	0.0177	J	0.0403	J
Cobalt	7440-48-4	0.0055	0.0132	J	0.0132	J	ND	ND	0.0217	J	0.047	J
Copper	7440-50-8	0.0038	ND	ND	ND	ND	ND	ND	ND	ND	ND	J
Iron	7439-89-6	0.0059	26.3	J	21.9	J	27.1	J	27.1	J	79.3	J
Magnesium	7439-95-4	0.024	4.67	20.6	21.5	J	20.6	20.6	10.3	J	4.18	J
Manganese	7439-96-5	0.0029	0.5	J	1.26	J	0.0305	J	1.26	J	1.09	J
Nickel	7440-02-0	0.0054	0.0163	J	0.0163	J	0.035	J	0.035	J	0.343	J
Potassium	7440-09-7	0.15	2.92	J	5.67	J	6.1	ND	ND	ND	ND	ND
Silver	7440-22-4	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	7440-23-5	0.2	19.5	53.4	59.4	J	19.5	53.4	19.6	J	15.5	J
Vanadium	7440-62-2	0.007	0.047	0.047	0.048	J	0.047	0.048	0.054	J	0.051	J
Zinc	7440-66-6	0.012	ND	ND	0.085	J	ND	ND	0.089	J	0.075	J
Thallium TR	7440-28-0	0.0045	ND	ND	ND	ND	ND	ND	ND	ND	ND	J
Arsenic TR	7440-38-2	0.0027	0.067	0.067	0.067	J	0.012	0.014	0.014	0.014	0.057	J
Selenium TR	7782-49-2	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.047
Lead TR	7439-92-1	0.002	0.0207	0.0207	0.0262	J	0.0301	0.0301	0.0301	J	0.0669	J
Mercury	7439-97-6	0.000043	ND	ND	0.000093	J	ND	ND	ND	ND	0.00023	J

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods
All results are reported in mg/l.

(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.

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R - Unusable result; analyze may or may not be present in the sample.

4-4 Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Result	Notes								
Pesticides/PCBs												
Endrin Ketone	53494-70-5	0.000004	ND	J								
Alpha Chlordane	5103-71-9	0.000001	ND	J								
Gamma Chlordane	5103-74-2	0.000001	ND	J								
Alpha BHC	319-84-6	0.000001	ND	J								
Beta BHC	319-85-7	0.000001	ND	J								
Gamma BHC + Lindane	58-89-9	0.000001	ND	J								
Delta BHC	319-86-8	0.000003	ND	J								
Hepachlor	76-44-8	0.000002	ND	J								
Aldrin	309-00-2	0.000006	ND	J								
Hepachlor Epoxide	1024-57-3	0.000001	ND	J								
DDE	72-55-9	0.000001	ND	J								
DDD	72-54-8	0.000005	ND	J								
DDT	50-29-3	0.000009	ND	J								
Dieldrin	60-57-1	0.000001	ND	J								
Endrin	72-20-8	0.000007	ND	J								
Toxaphene	8001-35-2	0.0004	ND	J								
Endosulfan II	33213-65-9	0.000005	ND	J								
Endosulfan I	959-98-8	0.000002	ND	J								
Endosulfan Sulfate	1031-07-8	0.000003	ND	J								
Endrin Aldehyde	7421-93-4	0.000005	ND	J								
PCB-1016	12674-11-2	0.00004	ND	J								
PCB-1221	11104-28-2	0.00005	ND	J								
PCB-1232	11141-16-5	0.00005	ND	J								
PCB-1242	53469-21-9	0.00001	ND	J								
PCB-1248	12672-29-6	0.00004	ND	J								
PCB-1254	11097-69-1	0.00001	ND	J								
PCB-1260	11096-82-5	0.00004	ND	J								
Methoxychlor	72-43-5	0.00002	ND	J								

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

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4-4
Summary of Ground Water Analytical Results

Former Gulf States Croesotting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Result	Notes	Result	Notes	Result	Notes	Result	Notes
Semivolatile										
acenaphthene	83-32-9	0.001	ND	ND	ND	ND	ND	ND	ND	ND
acenaphthylene	208-96-8	0.001	ND	ND	ND	ND	ND	ND	ND	ND
anthracene	120-12-7	0.001	ND	ND	ND	ND	ND	ND	ND	ND
benzo (a) anthracene	56-55-3	0.001	ND	ND	ND	ND	ND	ND	ND	ND
benzo (b) fluoranthene	205-99-2	0.002	ND	ND	ND	ND	ND	ND	ND	ND
benzo (k) fluoranthene	297-08-9	0.002	ND	ND	ND	ND	ND	ND	ND	ND
benzo (ghi) perylene	191-24-2	0.002	ND	ND	ND	ND	ND	ND	ND	ND
benzo (a) pyrene	50-32-8	0.002	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroethoxy) methane	111-91-1	0.001	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroethyl) ether	111-44-4	0.001	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.002	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	101-55-3	0.002	ND	ND	ND	ND	ND	ND	ND	ND
butyl benzyl phthalate	85-68-7	0.002	ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8	0.002	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	39-50-7	0.002	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	91-58-7	0.001	ND	ND	ND	ND	ND	ND	ND	ND
2-chlorophenol	95-57-8	0.001	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	7005-72-3	0.002	ND	ND	ND	ND	ND	ND	ND	ND
chrysene	218-01-9	0.001	ND	ND	ND	ND	ND	ND	ND	ND
dibenzofuran	132-64-9	0.001	ND	ND	ND	ND	ND	ND	ND	ND
din-n-butyl phthalate	84-74-2	0.001	ND	ND	ND	ND	ND	ND	ND	ND
dibenz (a,h) anthracene	53-70-3	0.002	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	95-50-1	0.001	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	541-73-1	0.001	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	106-46-7	0.001	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	0.002	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	126-85-2	0.002	ND	ND	ND	ND	ND	ND	ND	ND
diethyl phthalate	84-66-2	0.002	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	105-67-9	0.001	ND	ND	ND	ND	ND	ND	ND	ND
dimethyl phthalate	131-11-3	0.003	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	51-28-5	0.005	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	121-14-2	0.002	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	606-20-2	0.001	ND	ND	ND	ND	ND	ND	ND	ND

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods

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(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.

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4.4
Summary of Ground Water Analytical Results

Former Gulf States Crossotting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
di-n-octyl phthalate	117-84-0	0.002	ND		ND		ND		ND		ND	
fluoranthene	206-44-0	0.001	ND		ND		ND		ND		ND	
fluorene	86-73-7	0.001	ND		ND		ND		ND		ND	
hexachlorobenzene	118-74-1	0.001	ND		ND		ND		ND		ND	
hexachlorobutadiene	87-68-3	0.001	ND		ND		ND		ND		ND	
hexachlorocyclopentadiene	77-47-4	0.003	ND		ND		ND		ND		ND	
hexachloroethane	67-72-1	0.002	ND		ND		ND		ND		ND	
indeno (1,2,3-cd) pyrene	192-39-5	0.002	ND		ND		ND		ND		ND	
isophorone	78-59-1	0.001	ND		ND		ND		ND		ND	
2-methylnaphthalene	91-57-6	0.001	ND		ND		ND		ND		ND	
naphthalene	91-20-3	0.001	ND		ND		ND		ND		ND	
2-nitroaniline	88-74-4	0.001	ND		ND		ND		ND		ND	
3-nitroaniline	99-09-2	0.001	ND		ND		ND		ND		ND	
4-nitroaniline	100-01-6	0.002	ND		ND		ND		ND		ND	
nitrobenzene	98-95-3	0.001	ND		ND		ND		ND		ND	
2-nitrophenol	88-75-5	0.002	ND		ND		ND		ND		ND	
4-nitrophenol	100-02-7	0.005	ND		ND		ND		ND		ND	
N-nitrosodiphenylamine	86-30-6	0.002	ND		ND		ND		ND		ND	
N-nitroodi-n-propylamine	621-64-7	0.002	ND		ND		ND		ND		ND	
pentachlorophenol	87-86-5	0.001	ND		ND		ND		ND		ND	
phenanthrene	85-01-8	0.001	ND		ND		ND		ND		ND	
phenol	108-94-2	0.001	ND		ND		ND		ND		ND	
pyrene	129-00-0	0.001	ND		ND		ND		ND		ND	
1,2,4-trichlorobenzene	120-87-1	0.001	ND		ND		ND		ND		ND	
2,4,5-trichlorophenol	95-95-4	0.001	ND		ND		ND		ND		ND	
2,4,6-trichlorophenol	88-06-2	0.001	ND		ND		ND		ND		ND	
2-methylphenol	95-48-7	0.002	ND		ND		ND		ND		ND	
2,2'oxybis(1-chloropropane)	108-68-1	0.002	ND		ND		ND		ND		ND	
4-methylphenol	106-44-5	0.005	ND		ND		R		ND		ND	
4,6-dinitro-2-methylphenol	534-52-1	0.001	ND		ND		ND		ND		ND	
carbazole	86-74-8											
Total cyanide		57-12-5	0.000004		ND		ND		ND		ND	

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods

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Figure 4-4
Summary of Ground Water Analytical Results
Former Gulf States Crosstotting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
Volatiles											
2-Butanone	78-93-3	0.003	0.006	ND	ND	0.06	ND	ND	ND	ND	ND
Bromomethane	74-83-9	0.003	0.06	ND	ND	0.06	ND	ND	ND	ND	ND
Chloromethane	74-87-3	0.003	0.06	ND	ND	0.06	ND	ND	ND	ND	ND
Vinyl Chloride	75-01-4	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Chloroethane	75-00-3	0.003	0.06	ND	ND	0.06	ND	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Acetone	67-64-1	0.006	0.12	ND	ND	0.12	ND	ND	ND	ND	ND
Carbon Disulfide	75-15-0	0.003	0.06	ND	ND	0.06	ND	ND	ND	ND	ND
1,1-Dichlorethane	75-35-4	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
1,1-Dichloroethene	75-34-3	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Chloroform	67-66-3	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
1,2-Dichlorethane	107-06-2	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
Vinyl Acetate	108-05-4	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10061-02-6	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
Dibromoethane	124-49-1	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Benzene	71-43-2	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	10061-01-5	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
Bromoform	75-25-2	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
2-Hexanone	591-78-6	0.007	0.14	ND	ND	0.14	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	108-10-1	0.005	0.1	ND	ND	0.1	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Toluene	108-88-3	0.002	0.04	ND	ND	0.04	ND	ND	ND	ND	ND
Chlorobenzene	108-90-7	0.001	0.02	ND	ND	0.02	ND	ND	ND	ND	ND

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semi-volatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods
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Figure 4-4
Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
Ethylbenzene	100-41-4	0.002	0.04	0.062	J	0.04	0.06	J	ND	ND	
Styrene	100-42-5	0.001	0.02	0.085	J	0.02	0.077	J	ND	ND	
Xylene (total)	1330-20-7	0.001	0.02	0.38		0.02	0.37		ND	ND	
trans-1,2-Dichloroethene	156-60-5	0.002	0.04	ND		0.04	ND		ND	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	0.04	ND		0.04	ND		ND	ND	
Metals											
Aluminum	7429-90-5	0.057	7.32	J		14.8	J	1.77			
Antimony	7440-36-0	0.015	ND	R		ND	R	R			
Barium	7440-39-3	0.0022	0.11	J		0.16	J	0.0917			
Beryllium	7440-41-7	0.0013	0.0037	J		0.0026	J				
Cadmium	7440-43-9	0.0027	ND			ND					
Calcium	7440-70-2	0.03	2.84	J		3.67	J	5.85	J		
Chromium	7440-47-3	0.0043	0.0197	J		0.038	J	ND			
Cobalt	7440-48-4	0.0055	ND			0.0086	J				
Copper	7440-50-8	0.0038	ND	J		ND	J	ND			
Iron	7439-89-6	0.0059	9.84	J		15.3	J	2.3	J		
Magnesium	7439-95-4	0.024	1.8	J		2.39	J	1.93	J		
Manganese	7439-96-5	0.0029	0.061	J		0.088	J	0.128	J		
Nickel	7440-02-0	0.0054	0.0068	J		0.0112	J	ND			
Potassium	7440-09-7	0.15	1.15	J		1.59	J	1.73	J		
Silver	7440-22-4	0.0036	ND			ND					
Sodium	7440-23-5	0.2	13.7	J		14.2	J	7.18	J		
Vanadium	7440-62-2	0.007	0.035	J		0.063	J	ND			
Zinc	7440-56-6	0.012	ND			0.093	J	ND			
Thallium TR	7440-28-0	0.0045	ND			ND		0.011	J		
Arsenic TR	7440-36-2	0.0027	0.058	ND		0.07	ND	0.025			
Selenium TR	7782-39-2	0.0027	ND			ND					
Lead TR	7439-92-1	0.002	0.025	J		0.0225	J	ND	J		
Mercury	7439-97-6	0.000043	ND	J		0.00026	J	ND	J		

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods

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Figure 4-4
Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Result	Notes	MW-23 (b) 2677538 3/12/97	MW-4 2677539 3/12/97
Pesticides/PCBs												
Endrin Ketone	53494-70-5	0.000004	0.000005	ND	J	ND	ND	J	ND	J	ND	ND
Alpha Chlordane	5103-71-9	0.000001	0.000002	ND	J	ND	ND	J	ND	J	ND	ND
Gamma Chlordane	5103-74-2	0.000001	0.000003	ND	J	ND	ND	J	ND	J	ND	ND
Alpha BHC	319-84-6	0.000001	0.000001	ND	J	ND	ND	J	ND	J	ND	ND
Beta BHC	319-85-7	0.000001	0.000001	ND	J	ND	ND	J	ND	J	ND	ND
Gamma BHC - Lindane	319-86-8	0.000003	0.000004	ND	J	ND	ND	J	ND	J	ND	ND
Delta BHC	76-44-8	0.000002	0.000002	ND	J	ND	ND	J	ND	J	ND	ND
Hepachlor	309-00-2	0.000006	0.000008	ND	J	ND	ND	J	ND	J	ND	ND
Aldrin	1024-57-3	0.000001	0.000001	ND	J	ND	ND	J	ND	J	ND	ND
Hepachlor Epoxide	72-55-9	0.000001	0.000003	ND	J	ND	ND	J	ND	J	ND	ND
DDE	72-54-8	0.000005	0.000006	ND	J	ND	ND	J	ND	J	ND	ND
DDD	50-29-3	0.000009	0.00001	ND	J	ND	ND	J	ND	J	ND	ND
DDT	60-57-1	0.000001	0.000001	ND	J	ND	ND	J	ND	J	ND	ND
Dieldrin	72-20-8	0.000007	0.000009	0.000004	J	ND	ND	J	ND	J	ND	ND
Endrin	8001-35-2	0.0004	0.0003	ND	J	ND	ND	J	ND	J	ND	ND
Toxaphene	3321-35-9	0.000005	0.000006	ND	J	ND	ND	J	ND	J	ND	ND
Endosulfan II	959-98-8	0.000002	0.000003	ND	J	ND	ND	J	ND	J	ND	ND
Endosulfan J	1031-07-8	0.000003	0.000004	ND	J	ND	ND	J	ND	J	ND	ND
Endosulfan Sulfate	7421-93-4	0.000005	0.000006	ND	J	ND	ND	J	ND	J	ND	ND
Endrin Aldehyde	12674-11-2	0.000004	0.000005	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1016	11104-28-2	0.0001	0.0008	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1221	11141-16-5	0.00005	0.00006	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1232	53469-21-9	0.0001	0.0005	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1242	12672-29-6	0.00004	0.00005	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1248	11087-69-1	0.0001	0.0002	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1254	11096-82-5	0.00004	0.00005	ND	J	ND	ND	J	ND	J	ND	ND
PCB-1260	72-43-5	0.00002		ND	J	ND	ND	J	ND	J	ND	ND
Methoxychlor												

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods

All results are reported in mg/l.

(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.

(b) Sample MW-23 is a blind duplicate of sample MW-03.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Figure 4-4
Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
Semivolatiles											
acenaphthene	83-32-9	0.001		0.3	J		0.31		ND	ND	
acenaphthylene	208-96-8	0.001		0.019			0.02		ND	ND	
anthracene	120-12-7	0.001		0.02			0.017		ND	ND	
benzo (a) anthracene	56-55-3	0.001		0.007	J		0.004		ND	ND	
benzo (b) fluoranthene	205-99-2	0.002		0.005	J		0.003		ND	ND	
benzo (k) fluoranthene	207-08-9	0.002		ND			ND		ND	ND	
benzo (ghi) perylene	191-24-2	0.002		ND			ND		ND	ND	
benzo (a) pyrene	50-32-8	0.002		0.003	J		0.003		ND	ND	
bis (2-chloroethyl) methane	111-91-1	0.001		ND	J		ND		ND	ND	
bis (2-chloroethyl) ether	111-44-4	0.001		ND	J		ND		ND	ND	
bis (2-ethylhexyl) phthalate	117-81-7	0.002		0.007	J		0.019		ND	ND	
4-bromophenyl phenyl ether	101-55-3	0.002		ND			ND		ND	ND	
butyl benzyl phthalate	85-68-7	0.002		ND	J		ND		ND	ND	
4-chloroaniline	106-47-8	0.002		ND	J		ND		ND	ND	
4-chloro-3-methylphenol	59-50-7	0.002		ND	J		ND		ND	ND	
2-chloronaphthalene	91-58-7	0.001		ND			ND		ND	ND	
2-chlorophenol	95-57-8	0.001		ND			ND		ND	ND	
4-chlorophenyl phenyl ether	7005-72-3	0.002		ND	J		ND		ND	ND	
chrysene	218-01-9	0.001		0.007	J		0.004		ND	ND	
dibenzofuran	132-64-9	0.001		0.15			0.15		ND	ND	
di-n-butyl phthalate	84-74-2	0.001		ND			ND		ND	ND	
dibenzo (a,h) anthracene	53-70-3	0.002		ND			ND		ND	ND	
1,2-dichlorobenzene	95-50-1	0.001		ND			ND		ND	ND	
1,3-dichlorobenzene	541-73-1	0.001		ND			ND		ND	ND	
1,4-dichlorobenzene	106-46-7	0.001		ND			ND		ND	ND	
3,3'-dichlorobenzidine	91-94-1	0.002		ND			ND		ND	ND	
2,4-dichlorophenol	120-83-2	0.002		ND	J		ND		ND	ND	
diethyl phthalate	84-66-2	0.002		ND			ND		ND	ND	
2,4-dimethylphenol	105-67-9	0.001		4.5	J		5.2		ND	ND	
dimethyl phthalate	131-1-3	0.003		ND			ND		ND	ND	
2,4-dinitrophenol	51-28-5	0.005		ND			ND		ND	ND	
2,4-dinitrotoluene	121-14-2	0.002		ND			ND		ND	ND	
2,6-dinitrotoluene	606-20-2	0.001		ND			ND		ND	ND	

Notes

Analytical methods: Volatiles by SW-846 3240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods
All results are reported in mg/l.

(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.
(b) Sample MW-23 is a blind duplicate of sample MW-03.
J - Estimated value; in cases of ND, indicates MDL is estimated.
R - Unusable result; analyte may or may not be present in the sample.

MPA Data 4-4
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
di-n-octyl phthalate	117-84-0	0.002	ND	0.034		ND	0.02		ND	ND	
fluoranthene	205-44-0	0.001	0.14			ND	0.14		ND	ND	
fluorene	86-73-7	0.001	ND		J	ND	ND		ND	ND	
hexachlorobenzene	118-74-1	0.001	ND			ND	ND		ND	ND	
hexachlorobutadiene	87-68-3	0.001	ND			ND	ND		ND	ND	
hexachlorocyclopentadiene	77-47-4	0.003	ND			ND	ND		ND	ND	
hexachloroethane	67-72-1	0.002	ND			ND	ND		ND	ND	
indeno (1,2,3-cd) pyrene	193-39-5	0.002	ND		J	ND	1.1	J	ND	ND	
isophorone	78-59-1	0.001	ND			ND	0.99		ND	ND	
2-methylnaphthalene	91-57-6	0.001	ND			ND	1.1		ND	ND	
naphthalene	91-20-3	0.001	ND			ND	0.018		ND	ND	
2-nitroaniline	88-74-4	0.001	ND			ND	ND		ND	ND	
3-nitroaniline	99-09-2	0.001	ND			ND	ND		ND	ND	
4-nitroaniline	100-01-6	0.002	ND			ND	ND		ND	ND	
nitrobenzene	98-95-3	0.001	ND		J	ND	ND	J	ND	ND	
2-nitrophenol	88-75-5	0.002	ND			ND	ND		ND	ND	
4-nitrophenol	100-02-7	0.005	ND			ND	ND		ND	ND	
N-nitrosodiphenylamine	86-30-6	0.002	ND			ND	ND		ND	ND	
N-nitrosodi-n-propylamine	621-64-7	0.002	ND			ND	ND		ND	ND	
pentachlorophenol	87-86-5	0.001	ND			ND	ND		ND	ND	
phenandrene	85-01-8	0.001	ND			ND	ND		ND	ND	
phenol	108-95-2	0.001	ND			ND	ND		ND	ND	
pyrene	129-00-0	0.001	ND		J	ND	0.023		ND	ND	
1,2,4-trichlorobenzene	120-82-1	0.001	ND			ND	ND		ND	ND	
2,4,5-trichlorophenol	95-95-4	0.001	ND			ND	ND		ND	ND	
2,4,6-trichlorophenol	88-06-2	0.001	ND			ND	ND		ND	ND	
2-methylphenol	95-48-7	0.002	ND			ND	ND		ND	ND	
2,2'oxybis (1-chloropropane)	108-60-1	0.002	ND			ND	ND		ND	ND	
4-methylphenol	106-44-5	0.002	ND			ND	ND		ND	ND	
4,6-dinitro-2-methylphenol	534-52-1	0.005	R			R	ND		R	ND	
carbazole	86-74-8	0.001	0.38	J		0.39	ND		ND	ND	
Total cyanide	57-12-5	0.000004	ND			ND	ND		ND	ND	

Notes

Analytical methods: Volatiles by SW-846 8240B;
Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;

Inorganics by appropriate SW-846 methods

All results are reported in mg/l.

(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04, and was analyzed for metals only.

(b) Sample MW-23 is a blind duplicate of sample MW-03.

J - Estimated value; in cases of ND, indicates MDL is estimated.
R - Unusable result; analyte may or may not be present in the sample.

Figure 4-5

Summary of Surface Soil Analytical Results

**Former Gulf States Creosoting Site
Hattiesburg, Mississippi**

Parameter	CAS Number	Method	Detection Limit	SS-11		SS-6		SS-8		SS-9		SS-4		SS-10		SS-7		
				Lab Sample ID	Date Collected	2677435	3/13/97	2677436	3/13/97	2677439	3/13/97	2677440	3/13/97	2677441	3/13/97	2677442	3/13/97	2677443
TCL Semivolatiles																		
phenol	108-95-2		0.033			ND												
2-chlorophenol	95-57-8		0.033			ND												
1,4-dichlorobenzene	106-46-7		0.033			ND												
N-nitrosodimethylamine	621-64-7		0.067			ND												
1,2,4-trichlorobenzene	120-82-1		0.033			ND												
4-chloro-3-methylphenol	59-50-7		0.067			ND												
acenaphthene	83-32-9		0.033			ND												
4-nitrophenol	100-02-7		0.17			ND												
2,4-dinitrotoluene	121-14-2		0.067			ND												
pentachlorophenol	87-86-5		0.17			ND												
pyrene	129-00-0		0.067			0.16	J	ND										
2-nitrophenol	88-75-5		0.067			ND												
2,4-dimethylphenol	105-67-9		0.067			ND												
2,4-dichlorophenol	120-83-2		0.033			ND												
2,4,6-trichlorophenol	88-06-2		0.067			ND												
2,4-dinitrophenol	51-28-5		0.17			ND	ND	J	ND	ND	ND	ND	ND	ND	J	ND	ND	ND
bis (2-chloroethyl) ether	111-44-4		0.067			ND												
1,3-dichlorobenzene	541-73-1		0.033			ND												
hexachlorobutadiene	95-50-1		0.033			ND												
hexachloroethane	67-72-1		0.067			ND												
nitrobenzene	98-95-3		0.033			ND												
isophorone	78-59-1		0.067			ND												
bis (2-chloroethoxy) methane	111-91-1		0.033			ND												
naphthalene	91-20-3		0.033			ND												
hexachlorobutadiene	87-68-3		0.067			ND												
hexachlorocyclopentadiene	77-47-4		0.17			ND												
2-chloronaphthalene	91-58-7		0.033			ND												
acenaphthylene	208-96-8		0.033			ND												
dimethyl phthalate	131-11-3		0.033			ND												
fluorene	86-73-7		0.033			ND												
4-chlorophenyl phenyl ether	7003-72-3		0.067			ND												
diethyl phthalate	84-66-2		0.067			ND												
N-nitrosodiphenylamine	86-30-6		0.067			ND												
4-bromophenyl phenyl ether	101-55-3		0.1			ND												
hexachlorobenzene	118-74-1		0.1			ND												
phenanthrene	85-01-8		0.033			ND												
anthracene	120-12-7		0.033			ND												

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg.

All samples were collected from 0 - 12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Figure 4-5
Summary of Surface Soil Analytical Results
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	Method	Detection Limit	SS-11 2677435 3/13/97		SS-6 2677436 3/13/97		SS-8 2677439 3/13/97		SS-9 2677440 3/13/97		SS-4 2677441 3/13/97		SS-10 2677442 3/13/97		SS-7 2677443 3/13/97	
					Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
di-n-butyl phthalate	84-74-2	0.033	ND	ND	ND		0.12	J	ND	0.95	ND	0.26	J	0.11	J	0.046	J	
fluoranthene	206-44-0	0.033	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
butyl benzyl phthalate	85-68-7	0.067	ND	ND	ND		ND		ND	ND	ND	0.64	0.22	J	0.27	J	ND	ND
benzo (a) anthracene	56-55-3	0.033	0.067	J	ND		0.11	J	ND	0.85	ND	0.21	J	0.36	J	2.3	ND	ND
chrysene	218-01-9	0.033	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	0.13	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
di-n-octyl phthalate	117-84-0	0.067	ND	ND	ND		0.18	J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (b) fluoranthene	205-99-2	0.067	ND	ND	ND		0.13	ND	ND	ND	ND	0.53	0.25	J	0.34	J	5.2	ND
benzo (K) fluoranthene	207-08-9	0.067	ND	ND	ND		0.067	J	ND	ND	ND	0.65	0.33	J	0.21	J	2.3	ND
benzo (a) pyrene	50-32-8	0.067	0.084	J	ND		ND		ND	ND	ND	0.23	J	0.3	J	2.4	ND	ND
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND	ND	ND		ND		ND	ND	ND	0.54	0.23	J	0.21	J	2.1	ND
dibenz (a,h) anthracene	53-70-3	0.067	ND	ND	ND		ND		ND	ND	ND	0.15	J	ND	ND	ND	0.64	ND
benzo (ghi) perylene	191-24-2	0.067	ND	ND	ND		ND		ND	ND	ND	0.42	0.17	J	0.2	J	1.8	ND
2-methylphenol	95-48-7	0.067	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol	106-44-5	0.1	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8	0.1	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	91-57-6	0.033	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	95-95-4	0.067	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitroaniline	88-74-4	0.067	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-nitroaciline	99-09-2	0.067	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzofuran	132-64-9	0.033	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	606-20-2	0.067	ND	ND	ND		0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitroaniline	100-01-6	ND	R	ND	R		ND		ND	R	ND	R	ND	R	ND	ND	ND	ND
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND	ND	R		ND		ND	R	ND	0.043	J	ND	ND	ND	ND	ND
carbazole	86-74-8	0.033	ND	ND	ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes

Analytical method: SW-346 8270B
 All results are reported on an "as received" basis in mg/kg.
 All samples were collected from 0 - 12" depth interval.
 (a) Sample SS-27 is a blind duplicate of sample SS-7.
 J - Estimated value; in cases of ND, indicates MDL is estimated.
 R - Unusable result; analyte may or may not be present in the sample.

e 4.5
Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	SS-27 (a)			SS-5			SS-12			SS-3			SS-1			SS-15		
			Lab Sample ID Date Collected	2677446 3/13/97	Notes	Result	Notes	Result	Notes	Result	Notes	Notes	Result	Notes	Notes	Result	Notes	Result	Notes	
TCL Semivolatiles																				
phenol	108-95-2	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-chlorophenol	95-57-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-dichlorobenzene	106-46-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-nitrosodimethylamine	621-64-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-trichlorobenzene	120-82-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-chloro-3-methylphenol	59-50-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
acenaphthene	83-32-9	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-nitrophenol	100-02-7	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-dinitrotoluene	121-14-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pentachlorophenol	87-86-5	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pyrene	129-00-0	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-nitrophenol	88-75-5	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-dimethylphenol	105-67-9	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-dichlorophenol	120-83-2	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4,6-trichlorophenol	88-06-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,4-dinitropipenol	51-28-5	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
bis (2-chloroethyl) ether	111-44-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-dichlorobenzene	541-73-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-dichlorobenzene	95-50-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
hexachloroethane	67-72-1	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
nitrobenzene	98-95-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
isophorone	78-59-1	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
bis (2-chloroethoxy) methane	111-91-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
naphthalene	91-20-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
hexachlorobutadiene	87-68-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
hexachlorocyclopentadiene	77-47-4	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-chloronaphthalene	91-58-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
acenaphthylene	208-96-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
dimethyl phthalate	131-11-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
fluorene	86-73-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-chlorophenyl phenyl ether	7003-72-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
diethyl phthalate	84-66-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-nitrosodiphenylamine	86-30-6	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-bromophenyl phenyl ether	101-55-3	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
hexachlorobenzene	118-74-1	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
phenanthrene	85-01-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
anthracene	120-12-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg.

All samples were collected from 0 - 12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Figure 4-5

Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	SS-27 (a)		SS-5		SS-12		SS-3		SS-1		SS-15	
			Lab Sample ID 2677446 3/13/97	Date Collected 3/13/97	2677444 3/13/97	2677445 3/13/97	2677447 3/13/97	2678198 3/14/97	2678197 3/14/97	2678199 3/14/97	2678197 3/14/97	2678198 3/14/97	2678199 3/14/97	
di-n-butyl phthalate	84-74-2	0.033	0.044	J	0.055	J	0.057	J	0.051	J	0.038	J	0.04	J
fluoranthene	205-44-0	0.033	ND	0.072	J	0.39	ND	ND	ND	ND	0.48	ND	0.12	J
butyl benzyl phthalate	85-68-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (a) anthracene	56-55-3	0.033	ND	0.044	J	0.22	J	0.4	ND	ND	0.54	ND	0.056	J
chrysene	218-01-9	0.033	ND	0.078	J	0.32	J	0.62	ND	ND	0.93	ND	0.11	I
3,3'-dichlorobenzidine	91-94-1	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23
di-n-octyl phthalate	117-84-0	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (b) fluoranthene	205-99-2	0.067	ND	0.13	J	0.54	ND	ND	ND	ND	1.2	ND	0.19	J
benzo (k) fluoranthene	207-08-9	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (a) Pyrene	50-32-8	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
indeno (1,2,3-cd) Pyrene	193-39-5	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenz (a,h) anthracene	53-70-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (ghi) perylene	191-24-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylphenol	95-48-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol	106-44-5	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	91-57-6	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	95-95-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitroaniline	88-74-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-nitroaniline	99-09-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzofuran	132-64-9	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrooluene	606-20-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitroaniline	100-01-6	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
carbazole	86-74-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg.

All samples were collected from 0-12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Figure 4-5
Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method	Detection Limit	SS-13		SS-18		SS-2		SS-17		SS-16	
				Date Collected	Lab Sample Number	3/14/97	2678200	3/14/97	2678201	3/14/97	2678202	3/14/97	2678203
TCL Semivolatiles													
phenol	108-95-2		0.033				ND						
2-chlorophenol	95-57-8		0.033				ND						
1,4-dichlorobenzene	106-46-7		0.033				ND						
N-nitrosodimethylamine	621-64-7		0.067				ND						
1,2,4-trichlorobenzene	120-82-1		0.033				ND						
4-chloro-3-methylphenol	59-50-7		0.067				ND						
acenaphthene	83-32-9		0.033				ND	0.047	J	ND	ND	ND	ND
4-nitrophenol	100-02-7		0.17				ND						
2,4-dinitrotoluene	121-14-2		0.067				ND						
pentachlorophenol	87-86-5		0.17				ND						
pyrene	129-00-0		0.067				1.8	2.4	0.2	J	1	ND	ND
2-nitrophenol	88-75-5		0.067				ND						
2,4-dimethylphenol	105-67-9		0.067				ND						
2,4-dichlorophenol	120-83-2		0.033				ND						
2,4,6-trichlorophenol	88-06-2		0.067				ND						
2,4-dinitrophenol	51-28-5		0.17				ND						
bis (2-chloromethyl) ether	111-44-4		0.067				ND						
1,3-dichlorobenzene	541-73-1		0.033				ND						
1,2-dichlorobenzene	95-50-1		0.033				ND						
hexachloroethane	67-72-1		0.067				ND						
nitrobenzene	98-95-3		0.033				ND						
isophorone	78-59-1		0.067				ND						
bis (2-chlorooxy) methane	111-91-1		0.033				ND						
naphthalene	91-20-3		0.033				ND	0.047	J	ND	ND	ND	0.16
hexachlorobutadiene	87-68-3		0.067				ND						
hexachlorocyclopentadiene	77-47-4		0.17				ND						
2-chloronaphthalene	91-58-7		0.023				ND						
acenaphthylene	208-96-8		0.033				ND	0.088	J	0.23	J	ND	0.17
dimethyl phthalate	131-11-3		0.033				ND						
fluorene	86-73-7		0.033				ND	0.088	J	ND	ND	ND	ND
4-chlorophenyl phenyl ether	7003-572-3		0.067				ND						
diethyl phthalate	84-66-2		0.067				ND						
N-nitrosodiphenylamine	86-30-6		0.067				ND	0.082	J	ND	ND	ND	ND
4-bromophenyl phenyl ether	101-55-3		0.1				ND						
hexachlorobenzene	118-74-1		0.1				ND						
phenanthrene	85-01-8		0.033				0.17	J	1.3	0.037	J	0.13	J
anthracene	120-12-7		0.033				0.12	J	0.22	J	ND	0.12	J

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg.

All samples were collected from 0 - 12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Figure 4-5
Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	SS-13			SS-18			SS-2			SS-17			SS-16		
			Lab Sample ID	Date Collected	Result	Notes	Result	Notes	Result	Notes	Notes	Result	Notes	Result	Notes	Result	Notes
di-n-butyl phthalate	84-74-2	0.033	2678200	3/14/97	0.1	J	0.059	J	0.099	J	0.11	J	0.066	J	0.68	ND	0.78
fluoranthene	206-44-0	0.033	2678201	3/14/97	3.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
butyl benzyl phthalate	85-68-7	0.067	2678202	3/14/97	1.1		1.1		0.041	J	0.54		0.062	J	0.8	ND	0.49
benzo (a) anthracene	56-55-3	0.033	2678203	3/14/97	1.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.87
chrysene	218-01-9	0.033	2678204	3/14/97	1.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo (g,h,i) benzene	91-94-1	0.13	2678205	3/14/97	0.067		0.078	J	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-dichlorobenzidine	117-81-7	0.067	2678206	3/14/97	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-ethylhexyl) phthalate	117-84-0	0.067	2678207	3/14/97	3.9		2.1		0.11	J	1.2		0.22	J	0.47	ND	1.4
benzo (b) fluoranthene	205-99-2	0.067	2678208	3/14/97	0.13		1.2		0.8	ND	ND	ND	ND	ND	ND	ND	0.49
benzo (k) fluoranthene	207-08-9	0.067	2678209	3/14/97	1.4		0.99		0.22	J	0.56		0.71		ND	ND	ND
benzo (a) pyrene	50-32-8	0.067	2678210	3/14/97	0.95		0.7		0.096	J	0.47		0.6		ND	ND	ND
indeno (1,2,3-cd) pyrene	193-39-5	0.067	2678211	3/14/97	0.28	J	0.21	J	ND	ND	0.14	J	0.16		ND	ND	ND
dibenz (a,h) anthracene	53-70-3	0.067	2678212	3/14/97	0.7		0.75		0.74		0.68		1.2		ND	ND	ND
benzo (ghi) perylene	191-24-2	0.067	2678213	3/14/97	ND		ND		ND		ND		ND		ND	ND	ND
2-methylphenol	95-48-7	0.067	2678214	3/14/97	0.1		ND		ND		ND		ND		ND	ND	ND
2,2'-oxybis (1-chloropropane)	108-60-1	0.067	2678215	3/14/97	0.1		ND		ND		ND		ND		ND	ND	ND
4-methylphenol	106-44-5	0.067	2678216	3/14/97	0.1		ND		ND		ND		ND		ND	ND	ND
4-chloroaniline	106-47-8	0.067	2678217	3/14/97	0.1		ND		ND		ND		ND		ND	ND	ND
2-methylnaphthalene	91-57-6	0.033	2678218	3/14/97	0.033		ND		0.05	J	ND		0.23		ND	ND	ND
2,4,5-trichlorophenol	95-95-4	0.067	2678219	3/14/97	0.067		ND		ND		ND		ND		ND	ND	ND
2-nitroaniline	88-74-4	0.067	2678220	3/14/97	0.067		ND		ND		ND		ND		ND	ND	ND
3-nitroaniline	99-09-2	0.067	2678221	3/14/97	0.067		ND		ND		ND		ND		ND	ND	ND
dibenzofuran	132-64-9	0.033	2678222	3/14/97	0.033		ND		0.075	J	ND		0.036	J	0.093	J	ND
2,6-dinitrotoluene	606-20-2	0.067	2678223	3/14/97	0.1		ND		ND		ND		ND		ND	ND	ND
4-nitroaniline	100-01-6	0.067	2678224	3/14/97	0.17		ND		ND		ND		ND		ND	ND	ND
4,6-dinitro-2-methylphenol	534-52-1	0.033	2678225	3/14/97	0.061	J	0.28	J	ND		0.046	J	0.11	J	ND	ND	ND
carbazole	86-74-8																

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg.

All samples were collected from 0 - 12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

TABLE 4-1

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	GEO-09		(S-6) Duplicate ^(a)		GEO-10		GEO-11		Sample Identifier	
			(2-3)	(S-6)	(2-3)	(S-6)	(2-3)	(S-6)	(2-3)	(S-6)	(2-3)	(S-6)
TCL Semihalogenated Organics^(b)												
1,2-dichlorobenzene	106-92-1	mg/kg	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2,2,4,6-tetrachloropropene	108-50-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2,4,5-trichlorophenol	95-51-4	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.035)	U	ND (0.036)	U	ND (0.036)	U
2,4,6-trichlorophenol	86-06-2	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
2,4-dimethylphenol	105-67-9	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
2,4-dinitrodecene	121-14-2	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.037)	U	ND (0.037)	U	ND (0.037)	U
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2-chlorotoluene	91-57-6	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2-methylphthalic acid	95-48-7	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2-nitroaniline	88-74-4	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
2-nitrophenol	98-75-5	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
3,3'-dichlorobenzidine	91-94-1	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
3- and 4-methylphenol	106-44-5	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
4-nitroaniline	99-09-2	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
4,6-dinitro-2-methylphenol	53-42-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
4-nitrophenyl phenyl ether	101-55-3	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
anthracene	120-12-7	mg/kg	ND (0.037)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
4-nitrophenol	100-01-6	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(a)anthracene	56-55-3	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(a)pyrene	50-32-8	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(b)fluoranthene	205-99-2	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(b)phenanthrene	191-24-2	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(k)fluoranthene	207-08-9	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
benzo(2-ethoxyphenyl)benzene	111-91-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
bis(2-chlorophenyl)perylene	111-44-4	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
butyl benzyl phthalate	85-68-7	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
carbazole	36-74-8	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
chrysene	218-01-9	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.073)	U	ND (0.075)	U	ND (0.075)	U	ND (0.076)	U	ND (0.076)	U
dibenz(a,h)anthracene	53-70-3	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
dibenzofuran	131-54-9	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
fluoranthene	86-73-7	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
hexachlorobenzene	118-74-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
hexachlorobutadiene	87-68-3	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
isophorone	78-59-1	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
N-nitrosodimethylamine	62-64-7	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
N-nitroso-diphenylamine	86-30-6	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
naphthalene	91-20-3	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
nitrobenzene	98-95-3	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
phenanthrene	57-86-5	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
phenanthrene	85-01-8	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
phenol	108-95-2	mg/kg	ND (0.073)	U	0.19 (0.075)	J	0.25 (0.075)	J	0.11 (0.076)	J	ND (0.072)	U
pyrene	122-00-0	mg/kg	ND (0.037)	U	ND (0.037)	U	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
Other Parameters												
Molality (Molar ^(c))	Na ₂ S ₂ O ₃	%	9.02 (0.1)		10.8 (0.08)		11.3 (0.08)		12.8 (0.08)		7.58 (0.08)	
											14.8 (0.08)	
											12.5 (0.08)	

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample GEO-3422-3.

(b) Target Compound List (T

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	Sample Identifier		
			GEO-16	(2'-3')	(5'-6')
<i>TCL Semivolatile Organics^(b)</i>					
1,2-dichlorobenzene	120-82-1	mg/kg	ND (0.038)	U	ND (0.04)
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.038)	U	ND (0.04)
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.038)	U	ND (0.04)
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.038)	U	ND (0.04)
2,2-oxybis(1-chloropropane)	106-60-1	mg/kg	ND (0.038)	U	ND (0.04)
2,4,5-trichlorophenol	95-95-4	mg/kg	ND (0.076)	U	ND (0.079)
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.076)	U	ND (0.079)
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.076)	U	ND (0.079)
2,4-dimethylnaphthalene	105-67-9	mg/kg	ND (0.076)	U	ND (0.079)
2-chloronaphthalene	51-28-5	mg/kg	ND (0.22)	U	ND (0.23)
2,4-dinitrophenol	121-14-2	mg/kg	ND (0.076)	U	ND (0.079)
2,6-dinitrotoluene	606-70-2	mg/kg	ND (0.038)	U	ND (0.04)
2-nitronaphthalene	91-58-7	mg/kg	ND (0.038)	U	ND (0.04)
2-chlorophenol	95-57-8	mg/kg	ND (0.038)	U	ND (0.04)
2,4-dinitrophenol	88-74-4	mg/kg	ND (0.038)	U	ND (0.04)
2-nitrophenol	88-75-5	mg/kg	ND (0.076)	U	ND (0.079)
3,3'-nitroaniline	99-09-2	mg/kg	ND (0.076)	U	ND (0.079)
3,3-dichlorobenzoate	534-52-1	mg/kg	ND (0.076)	U	ND (0.079)
3-and 4-methylphenol	106-44-5	mg/kg	ND (0.076)	U	ND (0.079)
4-bromophenyl phenyl ether	101-55-3	mg/kg	ND (0.076)	U	ND (0.079)
4-chloro-3-methylphenol	59-50-7	mg/kg	ND (0.076)	U	ND (0.079)
4-chloroaniline	106-47-8	mg/kg	ND (0.038)	U	ND (0.04)
4-chlorophenyl phenyl ether	7005-72-3	mg/kg	ND (0.038)	U	ND (0.04)
4-nitroaniline	100-01-6	mg/kg	ND (0.076)	U	ND (0.079)
4-nitrophenoxy	100-02-7	mg/kg	ND (0.19)	U	ND (0.2)
acetophenone	83-32-9	mg/kg	ND (0.038)	U	ND (0.04)
acetophenylene	208-96-8	mg/kg	ND (0.038)	U	ND (0.04)
anthracene	120-12-7	mg/kg	ND (0.038)	U	ND (0.04)
benzo(a)anthracene	56-55-3	mg/kg	ND (0.038)	U	ND (0.04)
benzo(a)pyrene	50-32-8	mg/kg	ND (0.038)	U	ND (0.04)
benzo(b)fluoranthene	205-99-2	mg/kg	ND (0.038)	U	ND (0.04)
benzo(g,h,i)perylene	191-24-2	mg/kg	ND (0.038)	U	ND (0.04)
benzo(k)fluoranthene	207-08-9	mg/kg	ND (0.038)	U	ND (0.04)
bis(2-chloroethoxy)methane	111-91-1	mg/kg	ND (0.076)	U	ND (0.079)
bis(2-chloroethyl)ether	111-44-4	mg/kg	ND (0.038)	U	ND (0.04)
bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	ND (0.076)	U	ND (0.079)
butyl benzyl phthalate	85-68-7	mg/kg	ND (0.076)	U	ND (0.079)
carbazole	86-74-8	mg/kg	ND (0.038)	U	ND (0.04)
chrysene	218-01-9	mg/kg	ND (0.038)	U	ND (0.04)
din-butyl phthalate	84-74-2	mg/kg	ND (0.076)	U	ND (0.079)
din-n-octyl phthalate	117-84-0	mg/kg	ND (0.076)	U	ND (0.079)
dibenz(a,h)anthracene	53-70-3	mg/kg	ND (0.038)	U	ND (0.04)
dibenzoturan	132-64-9	mg/kg	ND (0.038)	U	ND (0.04)
diethyl phthalate	84-66-2	mg/kg	ND (0.076)	U	ND (0.079)
dimethyl phthalate	131-11-3	mg/kg	ND (0.076)	U	ND (0.079)
fluorene	206-44-0	mg/kg	ND (0.038)	U	ND (0.04)
fluorene	86-73-7	mg/kg	ND (0.038)	U	ND (0.04)
hexachlorobenzene	118-74-1	mg/kg	ND (0.038)	U	ND (0.04)
hexachlorobutadiene	87-68-3	mg/kg	ND (0.076)	U	ND (0.079)
hexachlorocyclopentadiene	77-47-4	mg/kg	ND (0.19)	U	ND (0.2)
hexachloroethane	67-72-1	mg/kg	ND (0.038)	U	ND (0.04)
indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	ND (0.038)	U	ND (0.04)
isophorone	78-59-1	mg/kg	ND (0.038)	U	ND (0.04)
N-nitrosodimethylamine	62-64-7	mg/kg	ND (0.038)	U	ND (0.04)
naphthalene	91-20-3	mg/kg	ND (0.038)	U	ND (0.04)
nitrobenzene	98-95-3	mg/kg	ND (0.038)	U	ND (0.04)
pentachlorophenol	87-86-5	mg/kg	ND (0.19)	U	ND (0.2)
phenanthrene	155-01-8	mg/kg	ND (0.038)	U	ND (0.04)
phenol	108-95-2	mg/kg	ND (0.076)	U	ND (0.079)
pyrene	129-00-0	mg/kg	ND (0.038)	U	ND (0.04)
<i>Other Parameters</i>					
Moisture Content ^(e)	N/A	%	12.3 (0.08)	15.7 (0.08)	11.0 (0.08)
				13.2 (0.08)	11.6 (0.08)

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample GEO-345-S-6.

(b) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(c) EPA method 160-3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

U qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified during the data validation quality assurance review.

R qualifier denotes unusable result identified during data validation quality assurance review; compound may or may not be present in the sample.

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site

Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	Sample Identifier		
			GEO-18 (2'-3')	GEO-19 (0'-1')	GEO-19 (2'-3')
<i>TCL Semivolatile Organics^(a)</i>					
1,2,4-trichlorobenzene	120-82-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
1,2-dichlorobenzene	95-50-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
1,3-dichlorobenzene	541-73-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
1,4-dichlorobenzene	106-46-7 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2,2'-oxibis(1-chloropropane)	108-60-1 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,4,5-trichlorophenol	95-93-4 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,4,6-trichlorophenol	88-06-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,4-dichlorophenol	120-83-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,4-dimethylphenol	105-67-9 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,4-dinitrophenol	51-28-5 mg/kg	ND (0.22) UJ	ND (0.22) UJ	ND (0.22) U	ND (0.21) U
2,4-dinitrotoluene	121-14-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
2,6-dinitrotoluene	606-20-2 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2-chloronaphthalene	91-58-7 mg/kg	ND (0.938) U	ND (0.938) U	ND (0.937) U	ND (0.938) U
2-chlorophenol	95-57-8 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2-methylnaphthalene	91-57-6 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2-methylphenol	95-48-7 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2-nitroaniline	88-71-4 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
2-nitrophenol	88-75-5 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
3,3'-dichlorobenzidine	91-94-1 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
3- and 4-methylphenol	106-44-5 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
3-nitroaniline	89-09-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
4,6-dinitro-2-methylphenol	534-52-1 mg/kg	ND (0.19) UJ	ND (0.19) UJ	ND (0.18) U	ND (0.19) U
4-bromophenyl phenyl ether	101-55-3 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
4-nitrophenol	100-02-7 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.18) U	ND (0.19) U
acenaphthene	87-32-9 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
acenaphthylene	208-96-8 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
anthracene	120-12-7 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
benzo (a) anthracene	56-55-3 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
benzo (a) pyrene	206-32-8 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
benzo (b) fluoranthene	205-99-2 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
benzo (g,h) perylene	191-24-2 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
benzo (k) fluoranthene	207-08-9 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
bis (2-chlorodioxin) methane	111-91-1 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
bis (2-chloroethyl) ether	111-44-4 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
bis (2-ethylhexyl) phthalate	117-81-7 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
butyl benzyl phthalate	85-58-7 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
caramazole	86-74-8 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
caryeane	218-01-9 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
di-n-butyl phthalate	84-74-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
di-n-octyl phthalate	117-84-0 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
dibenz (a,h) antracene	53-70-3 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
dibenzofuran	132-64-9 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
diethyl phthalate	84-66-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
dimethyl phthalate	131-11-3 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
fluoranthene	206-44-0 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
fluorene	86-73-7 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
hexachlorobenzene	118-74-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
hexachlorocyclopentadiene	77-47-4 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.18) U	ND (0.19) U
hexachloroethane	67-72-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
indeno (1,2,3-cd) pyrene	193-39-5 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
isophorone	78-59-1 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
N-nitroodi-t-propylamine	621-64-7 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
N-nitrosodiphenylamine	86-30-6 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
naphthalene	91-20-3 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
nitrobenzene	98-95-3 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
pentachlorophenol	87-86-5 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.18) U	ND (0.19) U
phenanthrene	85-01-8 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U
phenol	108-95-2 mg/kg	ND (0.076) U	ND (0.076) U	ND (0.074) U	ND (0.075) U
pyrene	129-00-0 mg/kg	ND (0.038) U	ND (0.038) U	ND (0.037) U	ND (0.038) U

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(b) EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

U qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review.

UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified during the data validation quality assurance review.

TABLE 4-1
(Continued)
SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Crossing Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Residue Units	Sample Identifier								
			(0'-1)	(2'-3)	GEO-20 (5'-6)	(9'-10)	(0'-1)	(2'-3)	GEO-21 (5'-6)	(9'-10)	
TCL Semivolatile Organics^(a)											
1,2-dichlorobenzene	120-82-2	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.04) U	
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.04) U	
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.04) U	
2,2-bis(4-chlorophenoxy) 188-64-2	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.04) U		
2,4,5-trichlorophenol	95-95-1	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2,4-dinitrophenol	105-67-9	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.2)	ND (0.023)	U	ND (1.0)	ND (0.22) U	ND (29)	ND (1.5)	ND (0.22) U	
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
2,4-nitrophenol	91-88-7	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
2,4-nitrophenol	95-57-8	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
2,4-dichlorobenzenes	91-54-1	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2-methylphenol	95-63-7	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
2,4-dinitrophenol	88-74-7	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
2,4-dinitrophenol	88-75-8	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
2-methylphthalazine	91-57-6	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.078) U	
3-and-4-methylphenol	106-44-5	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
3-methoxyline	92-99-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
4-bromo-2-methylphenol	53-55-1	mg/kg	ND (1)	ND (0.2)	U	ND (0.95)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
4-chloro-2-methylphenol	106-77-9	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
4-chlorobiphenyl/polymer sulfonate	70-05-72-3	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
4-chlorophenol	100-01-6	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
anthracene	120-12-7	mg/kg	2.1 (0.2)	ND (0.04)	U	ND (0.95)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
benzo(a)anthracene	56-55-3	mg/kg	3.2 (0.2)	ND (0.04)	J	30 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
benzo(a)pyrene	50-22-8	mg/kg	3.2 (0.2)	ND (0.04)	J	11 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
benzo(b)fluoranthene	205-90-2	mg/kg	3.6 (0.2)	ND (0.04)	J	17 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
benzo(g,h,i)perylene	208-06-8	mg/kg	1.8 (0.2)	ND (0.04)	J	29 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
benzo(k)fluoranthene	191-24-2	mg/kg	2.7 (0.2)	ND (0.04)	J	43 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
butyl benzyl phthalate	85-58-7	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
cinnamaldehyde	96-74-8	mg/kg	0.6 (0.2)	ND (0.04)	J	24 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
hexaphenylbenzene	131-91-1	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
hexaphenylbenzene	131-94-4	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
hexaphenylbenzene	117-81-7	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
hexaphenylbenzene	207-08-9	mg/kg	1.8 (0.2)	ID	ND (0.04)	J	30 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U
hexaphenylbenzene	131-91-1	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
hexaphenylbenzene	131-94-4	mg/kg	ND (0.2)	ND (0.04)	U	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
hexaphenylbenzene	218-01-9	mg/kg	3.7 (0.2)	ND (0.04)	J	23 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
di-n-octyl phthalate	117-94-0	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
obenzo(a,h)anthracene	53-70-3	mg/kg	0.76 (0.2)	ND (0.04)	J	0.76 (0.19)	ND (0.19) U	ND (25)	J	ND (0.19) U	
diobenzo(a,h)anthracene	132-66-9	mg/kg	0.94 (0.2)	ND (0.04)	J	0.92 (0.19)	ND (0.19) U	ND (25)	J	ND (0.19) U	
diethyl phthalate	84-66-2	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
dimethyl phthalate	131-11-3	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
dimethylbenzene	206-64-0	mg/kg	3.7 (0.2)	ND (0.04)	J	150 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
fluorene	86-73-7	mg/kg	ND (0.2)	ND (0.04)	J	78 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
hexachlorobenzene	118-74-1	mg/kg	ND (0.2)	ND (0.04)	J	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
hexachlorobenzene	57-58-3	mg/kg	ND (0.4)	ND (0.079)	U	ND (0.38)	ND (0.075) U	ND (9.9)	ND (5.1)	ND (0.077) U	
hexachlorocyclohexene	77-47-4	mg/kg	ND (1)	ND (0.04)	J	150 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
hexachlorobenzene	57-77-1	mg/kg	ND (0.2)	ND (0.04)	J	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
indeno[1,2,3-cd] pyrene	193-39-5	mg/kg	2.9 (0.2)	ND (0.04)	J	3.5 (0.19)	ND (0.19) U	ND (25)	ND (13)	ND (0.19) U	
isophorone	78-59-1	mg/kg	ND (0.2)	ND (0.04)	J	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
4-nitro-2,6-dimethoxyphenylamine	86-90-6	mg/kg	ND (0.2)	ND (0.04)	J	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
naphthalene	91-20-3	mg/kg	0.68 (0.2)	J	ND (0.04)	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
nitrobenzene	96-55-3	mg/kg	ND (0.2)	ND (0.04)	J	ND (0.19)	ND (0.037) U	ND (5)	ND (2.6)	ND (0.038) U	
pentachlorophenol	87-86-5	mg/kg	ND (1)	ND (0.2)	U	ND (0.95)	ND (0.19) U				

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site

Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	Sample Identifier						
			(0'-1')	(2'-3')	(5'-6')	(8'-1')	(2'-3')	GEO-23	
<i>TCL Semivolatile Organics^(a)</i>									
1,2,4-trichlorobenzene	120-82-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
2,2'-oxybis(1-chloropropane)	108-50-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.036)	U	
2,4,5-trichlorophenol	95-95-4	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
2,4-dimethylphenol	105-67-9	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.2)	U	ND (0.24)	U	ND (0.23)	U	
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
2,ethylnaphthalene	91-98-7	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
2,diisopropenylbenzene	985-73-5	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
2-methylisopthalic acid	91-57-6	mg/kg	0.036 (0.034)	J	1.1 (0.041)	U	ND (0.039)	U	
2-methoxyphenol	95-48-7	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
2-nitroaniline	88-74-4	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
3,3'-dinitrobenzidine	91-94-1	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
3- and 4-methylphenol	106-44-5	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
3-nitroaniline	90-00-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
4,6-dinitro-2-methylphenol	534-52-1	mg/kg	ND (0.17)	U	ND (0.2)	U	ND (0.18)	U	
4-bromophenyl phenyl ether	101-55-3	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
4-chloro-3-methylphenol	50-50-7	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
4-chloronaphthalene	106-47-8	mg/kg	ND (0.034)	U	ND (0.041)	J	ND (0.039)	U	
4-chlorophenyl phenyl ether	7005-72-3	mg/kg	ND (0.034)	U	ND (0.041)	J	ND (0.036)	U	
4-nitroaniline	100-01-6	mg/kg	ND (0.17)	U	ND (0.2)	U	ND (0.18)	U	
4-nitrophenol	100-02-7	mg/kg	ND (0.034)	U	ND (0.041)	J	ND (0.039)	U	
acenaphthene	83-32-9	mg/kg	ND (0.098)	U	ND (0.12)	J	ND (0.093)	U	
acenaphthylene	206-06-8	mg/kg	0.098 (0.034)	J	2 (0.041)	J	ND (0.039)	U	
anthracene	120-12-7	mg/kg	0.21 (0.034)	J	3.4 (0.041)	0.078 (0.039)	J	ND (0.036)	J
benzo(a)anthracene	56-55-3	mg/kg	0.39 (0.034)	J	4.5 (0.041)	ND (0.039)	J	ND (0.036)	J
benzo(a)pyrene	50-32-8	mg/kg	0.39 (0.034)	J	6.1 (0.2)	0.048 (0.039)	J	ND (0.036)	J
benzo(b)fluoranthene	205-99-2	mg/kg	0.72 (0.034)	J	16 (0.2)	(e) 0.076 (0.039)	J	ND (0.036)	J
benzo(k) fluoranthene	191-24-2	mg/kg	0.28 (0.034)	J	3.8 (0.041)	0.045 (0.039)	J	0.32 (0.036)	J
benzo(2-6-dinitroxy) methane	117-91-1	mg/kg	0.21 (0.034)	J	ND (0.041)	ND (0.039)	J	0.37 (0.036)	J
bis(2-ethylhexyl) ether	111-44-4	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.65 (0.069)	G	ND (0.082)	U	ND (0.078)	U	
butyl benzyl phthalate	85-68-7	mg/kg	0.15 (0.069)	I	ND (0.082)	U	ND (0.078)	U	
carbazole	86-74-8	mg/kg	0.096 (0.034)	J	ND (0.082)	U	ND (0.078)	U	
cyclohexene	218-01-9	mg/kg	0.44 (0.034)	J	6.9 (0.2)	0.049 (0.039)	J	ND (0.036)	J
di-n-octyl phthalate	84-74-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
di-n-octyl phthalate	117-94-0	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
dibenz(a,h)anthracene	53-70-3	mg/kg	0.084 (0.034)	J	1.5 (0.041)	ND (0.039)	J	ND (0.036)	J
dibenzofuran	132-64-9	mg/kg	0.037 (0.034)	J	1.1 (0.041)	ND (0.039)	J	ND (0.036)	J
diethyl phthalate	84-66-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
dimethyl phthalate	131-11-3	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
fluoranthene	206-44-0	mg/kg	0.71 (0.034)	J	5.6 (0.2)	0.065 (0.039)	J	ND (0.036)	J
fluorine	86-73-7	mg/kg	0.038 (0.034)	J	0.66 (0.041)	0.042 (0.039)	J	ND (0.036)	J
hexachlorobutadiene	118-74-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
hexachlorocyclopentadiene	77-47-4	mg/kg	ND (0.17)	U	ND (0.2)	U	ND (0.18)	U	
hexachlorobutane	67-72-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
indeno(1,2,3- <i>cd</i>) pyrene	193-39-5	mg/kg	0.3 (0.034)	J	5.3 (0.041)	0.056 (0.039)	J	0.35 (0.036)	J
isophorone	78-59-1	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
N-nitrosodipropylamine	62-64-7	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
N-nitrosodiphenylamine	86-30-6	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
naphthalene	91-20-3	mg/kg	0.095 (0.034)	J	3.7 (0.041)	ND (0.039)	J	0.086 (0.036)	J
nitrobenzene	98-95-3	mg/kg	ND (0.034)	U	ND (0.041)	U	ND (0.039)	U	
perchlorophenol	57-86-5	mg/kg	ND (0.17)	U	ND (0.2)	U	ND (0.18)	U	
phenanthrene	85-01-8	mg/kg	0.39 (0.034)	J	2.5 (0.041)	0.064 (0.039)	J	0.18 (0.036)	J
phenol	108-95-2	mg/kg	ND (0.069)	U	ND (0.082)	U	ND (0.078)	U	
pyrene	129-00-0	mg/kg	0.61 (0.034)	J	8.4 (0.2)	0.032 (0.039)	J	0.5 (0.036)	J

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(b) EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

(c) Laboratory was unable to resolve distinct chromatographic peaks for Benzo(b)fluoranthene (BbF) and Benzo(k)fluoranthene (BkF). Therefore, reported B(b)F result for this sample is the sum total concentration of both isomers.

(d) Low concentrations of this common laboratory contaminant warrant caution if this value is used as basis for environmental risk assessment or other decision-making process.

U qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review.

J qualifier denotes the data validation quality assurance review.

U qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review.

U qualifier denotes the data validation quality assurance review.

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	GEO-24			Sample Identifier		
			(0'-1')	(2'-3')	(5'-6')	(0'-1')	(2'-3')	(5'-6')
TCL Semivolatile Organics^(a)								
1,2,4-trichlorobenzene	120-82-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2,2'-oxybis(1-chloropropane)	103-60-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2,4,5-trichlorophenol	95-95-4	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
2,4-dimethylphenol	105-67-9	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.22)	U	ND (0.22)	U	ND (0.22)	U
2,4-dinitrooluene	121-14-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-chloronaphthalene	91-38-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-chlorophenol	95-57-8	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-methylnaphthalene	91-57-6	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-methylphenol	95-48-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-nitroaniline	88-74-4	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
2-nitrophenol	88-75-5	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
3,3'-dichlorobenzidine	91-94-1	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
3,3' and 4-methylphenol	106-44-5	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
3-nitroaniline	99-09-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
3-nitroaniline	53-45-1	mg/kg	ND (0.19)	U	ND (0.19)	U	ND (0.19)	U
4-chlorophenyl phenyl ether	101-55-3	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
4-chlorophenyl phenyl ether	59-50-7	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
4-chloroaniline	106-47-8	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
4-chlorophenyl phenyl ether	700-57-3	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
4-nitroaniline	100-01-6	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
4-nitrophenol	100-02-7	mg/kg	ND (0.19)	U	ND (0.19)	U	ND (0.19)	U
acenaphthene	83-32-9	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
acenaphthylene	204-96-8	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
anthracene	120-12-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
benzo (a) anthracene	56-55-3	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
benzo (a) pyrene	50-32-8	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
benzo (b) fluoranthene	203-99-2	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
benzo (k) fluoranthene	191-24-2	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
benzo (K) fluoranthene	207-08-9	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
bis (2-chlorothio) methane	111-91-1	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
bis (2-chlorothio) ether	111-44-4	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
butyl benzyl phthalate	117-81-7	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
cyanazole	85-68-7	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
ethylene	218-01-9	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
dibenz (a,h) anthracene	53-70-3	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
dibenzofuran	132-64-9	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
diethyl phthalate	84-66-2	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
dimethyl phthalate	131-11-3	mg/kg	ND (0.077)	U	ND (0.075)	U	ND (0.076)	U
fluoranthene	206-44-0	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
fluorene	86-73-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
hexachlorobutadiene	118-74-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
hexachlorocyclopentadiene	77-47-4	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
hexachlorophane	67-72-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
indeno (1,2,3-cd) pyrene	192-39-5	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
isophtalone	78-59-1	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
4-nitrodin-n-propylamine	62-64-7	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
N-nitrosodiphenylamine	86-30-6	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
naphthalene	91-20-3	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
nitrobenzene	98-95-3	mg/kg	ND (0.038)	U	ND (0.037)	U	ND (0.038)	U
pentachlorophenol	87-86-5	mg/kg	ND (0.19)	U	ND (0.19)	U	ND (0.19)	U
phenanthrene	85-01-8	mg/kg	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
phenol	108-95-2	mg/kg	ND (0.077)	U	ND (0.077)	U	ND (0.076)	U
pyrene	129-00-0	mg/kg	ND (0.038)	U	ND (0.038)	U	ND (0.038)	U
Other Parameters								
Moisture Content ^(b)	N.A.	wt %	13.0	(0.08)	12.9	(0.08)	11.0	(0.08)
Sample Identifier					12.8	(0.08)	12.1	(0.08)
GEO-25					12.8	(0.08)	14.4	(0.08)

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(b) EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

(c) Laboratory was unable to resolve distinct chromatographic peaks for Benzo(b)fluoranthene (BbF) and Benzo(k)fluoranthene (BkF). Therefore, reported B(b)F result for this sample is the sum total concentration of both isomers.

U qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review.

UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Analytical Parameter	CAS Registry Number	Units	GEO-26			Sample Identifier			(5'-6') Duplicate@
			(0'-1')	(2'-3')	(S'-6')	(0'-1')	(2'-3')	(S'-6')	
TCL Semivolatile Organics (b)									
1,2-dichlorobenzene	120-82-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.037) U	ND (36) U
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.036) U	ND (0.037) U	ND (0.037) U	ND (36) U
2,2,2-trichloropropane	108-90-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.036) U	ND (0.036) U	ND (0.037) U	ND (36) U
2,4,5-trichlorophenol	95-55-4	mg/kg	ND (0.038) U	ND (0.039) U	ND (0.038) U	ND (0.037) U	ND (0.037) U	ND (0.037) U	ND (36) U
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.018) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
2,4-dichlorophenol	105-67-9	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.23) U	ND (0.23) U	ND (0.23) U	ND (0.21) U	ND (0.21) U	ND (0.21) U	ND (210) U
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-chlorophthalene	91-58-7	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-chlorophenol	95-73-8	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-methylisophthalene	91-57-6	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-methylphenol	95-68-7	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-nitroaniline	88-74-4	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
2-nitrophenol	91-94-1	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
3,3-dichlorobenzidine	101-55-3	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
3- and 4-methylphenol	106-44-5	mg/kg	ND (0.078) U	ND (0.078) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
3-nitroaniline	99-09-2	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
4,6-dinitro-2-methylphenol	233-52-1	mg/kg	ND (0.19) U	ND (0.2) U	ND (0.19) U	ND (0.18) U	ND (0.18) U	ND (0.18) U	ND (180) U
4-bromophenyl phenyl ether	101-55-3	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
4-chloro-3-methylphenol	59-50-7	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
4-chloroaniline	106-47-8	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
4-chlorophenyl phenyl ether	7005-72-3	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
4-nitroaniline	100-01-6	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
4-nitrophenol	100-02-7	mg/kg	ND (0.19) U	ND (0.2) U	ND (0.19) U	ND (0.18) U	ND (0.18) U	ND (0.18) U	ND (180) U
benzo(a)anthracene	120-12-7	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
benzo(a)pyrene	205-99-2	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
benzo(b)fluoranthene	191-24-2	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
benzo(k)fluoranthene	207-08-9	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
bis(2-allylhexyl) methane	11-91-1	mg/kg	ND (0.078) U	ND (0.078) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
bis(2-chloroethyl) ether	11-44-4	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
butyl benzyl phthalate	85-68-7	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
carbazole	86-74-8	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
chloroacetic acid	218-01-9	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
dibenzo(a,h)anthracene	55-70-3	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
dibenzofuran	133-54-9	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
diethyl phthalate	84-66-2	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
dinitrophenol	131-11-3	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.078) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
fluoranthene	206-44-0	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
fluorene	96-73-7	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
hexachlorobutene	18-74-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
isophorone	78-59-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
hexachlorocyclopentadiene	77-47-4	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
hexachlorobenzene	57-72-1	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
isooctane	100-20-3	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
nitrobenzene	98-95-3	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
(pentachlorophenol)	57-86-5	mg/kg	ND (0.19) U	ND (0.2) U	ND (0.19) U	ND (0.18) U	ND (0.18) U	ND (0.18) U	ND (180) U
phenanthrene	85-01-8	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
N-nitrosodimethylamine	108-92-2	mg/kg	ND (0.078) U	ND (0.079) U	ND (0.079) U	ND (0.073) U	ND (0.072) U	ND (0.073) U	ND (73) U
N-nitrosodiphenylamine	36-30-6	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
naphthalene	91-20-3	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
phenol	108-92-2	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U
pyrene	129-00-0	mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.037) U	ND (0.036) U	ND (0.037) U	ND (36) U

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NID denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample GEO-06/5-6.

(b) Target Compound List (TCL) base neutral acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(c) EPA method 160.3 (*Methods for Chemical Analysis of Water and Waste*, March 1983).
[] qualitative denotes not selected.

J quantifier denotes quantitation is estimated due to limitations in quantifying substances not detected.

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site

Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	GEO-28			Sample Identifier			GEO-29		
			(0' - 1')	(2' - 3')	(5' - 6')	(0' - 1')	(0' - 1')	(0' - 1')	(0' - 1')	(2' - 3')	(5' - 6')
TCL Semivolatile Organics^(b)											
1,2,4-trichlorobenzene	120-87-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
2,2-bis(1-chloropropane)	108-60-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
2,4,5-pentaephenoil	95-95-4	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
2,4-dimethylphenol	105-67-9	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.22)	U	ND (0.24)	U	ND (0.23)	U	ND (1.4)	ND (1.1)	ND (0.23) U
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
2-chloronaphthalene	91-58-7	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
2-chlorophenol	95-57-8	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
2-methylnaphthalene	91-57-6	mg/kg	ND (0.051)	U	ND (0.04)	U	ND (0.039)	U	ND (0.26)	J	ND (0.18) J
2-methylphenol	95-48-7	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
3-nitroaniline	99-09-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
4,6-dinitro- <i>m</i> -phenylphenol	534-52-1	mg/kg	ND (0.19)	U	ND (0.2)	U	ND (0.2)	U	ND (0.95)	ND (0.92)	ND (0.19) U
4-nitroaniline	7005-72-3	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
4-nitrophenol	100-01-6	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
4-chlorophenyl phenyl ether	106-47-8	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
4-chloro- <i>m</i> -phenylphenol	59-50-7	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
acenaphthene	83-32-9	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
acenaphthylene	208-96-8	mg/kg	ND (0.038)	J	ND (0.04)	U	ND (0.039)	U	1.2 (0.19)	J	ND (0.078) U
anthracene	120-12-7	mg/kg	ND (0.038)	J	ND (0.04)	U	ND (0.039)	U	2.5 (0.19)	ND (0.18)	ND (0.039) U
benzo (a) anthracene	56-55-3	mg/kg	ND (0.038)	ND (0.04)	U	ND (0.039)	U	4.1 (0.19)	ND (0.18)	ND (0.078) U	
benzo (a) pyrene	50-32-8	mg/kg	ND (0.038)	ND (0.04)	U	ND (0.039)	U	3.5 (0.19)	ND (0.18)	ND (0.078) U	
benzo (b) fluoranthene	205-99-2	mg/kg	ND (0.038)	ND (0.04)	U	ND (0.039)	U	8.6 (0.19)	ND (0.18)	ND (0.078) U	
benzo (ghi) perylene	191-24-2	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	1.4 (0.19)	J	ND (0.078) U
benzo (k) fluoranthene	207-08-9	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.19)	ND (0.18)	ND (0.078) U
bis(2-chlorooxy) methane	111-91-1	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
bis (2-ethylhexyl) ether	111-44-4	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
butyl benzyl phthalate	85-58-7	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
carbazole	86-74-8	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	0.88 (0.19)	J	ND (0.18) J
chrysene	218-01-9	mg/kg	1.1 (0.038)	J	ND (0.04)	U	ND (0.039)	U	6.7 (0.19)	ND (0.18) J	ND (0.078) U
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
dibenz (e,h) anthracene	53-70-3	mg/kg	0.2 (0.038)	J	ND (0.04)	U	ND (0.039)	U	0.6 (0.19)	J	ND (0.18) J
dibenzofuran	132-64-9	mg/kg	ND (0.039)	J	ND (0.04)	U	ND (0.039)	U	0.25 (0.19)	J	ND (0.18) J
diethyl phthalate	84-66-2	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
dimethyl phthalate	131-11-3	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
fluoranthene	206-44-0	mg/kg	1 (0.038)	J	ND (0.04)	U	ND (0.039)	U	12 (0.19)	ND (0.18)	ND (0.078) U
hexachlorobenzene	118-74-1	mg/kg	ND (0.038)	R	ND (0.04)	R	ND (0.039)	U	0.48 (0.19)	J	ND (0.18) J
hexachlorobutadiene	87-68-3	mg/kg	ND (0.077)	U	ND (0.081)	U	ND (0.078)	U	ND (0.38)	ND (0.37)	ND (0.078) U
hexachlorocyclopentadiene	77-47-4	mg/kg	ND (0.19)	U	ND (0.2)	U	ND (0.2)	U	ND (0.95)	ND (0.92)	ND (0.19) U
heptachloroethene	67-72-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
indeno (1,2,3- <i>cd</i>) pyrene	193-39-5	mg/kg	0.73 (0.038)	J	ND (0.04)	U	ND (0.039)	U	0.25 (0.19)	J	ND (0.18) J
isophorone	78-59-1	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	2.1 (0.19)	ND (0.18) R	ND (0.078) U
N-nitrosodimethylamine	621-64-7	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
N-nitrosodiphenyl amine	38-50-6	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
naphthalene	91-20-3	mg/kg	0.075 (0.038)	J	ND (0.04)	U	ND (0.039)	U	0.35 (0.19)	J	ND (0.18) J
nitrobenzene	98-95-3	mg/kg	ND (0.038)	U	ND (0.04)	U	ND (0.039)	U	ND (0.19)	ND (0.18)	ND (0.039) U
penta chlorophenol	87-86-5	mg/kg	ND (0.19)	U	ND (0.2)	U	ND (0.2)	U	ND (0.95)	ND (0.92)	ND (0.19) U
phenanthrene	95-01-8	mg/kg	0.018 (0.038)	J	ND (0.04)	U	ND (0.039)				

TABLE 4-1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	GEO-30			Sample Identifier			GEO-31 (2'-3')	(5'-6')
			(0'-1')	(2'-3')	(5'-6')	(0'-1')	(2'-3')	(5'-6')		
TCL Semivolatile Organics^(a)										
1,2,4-trichlorobenzene	120-82-1	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2,2-dimethylpropane	108-60-1	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2,4,5-trichlorophenol	55-95-4	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
2,4,6-trichlorophenol	88-06-2	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
2,4-dimethylphenol	103-57-9	mg/kg	0.11 (0.077)	J	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
2,4-dinitroanisole	51-28-5	mg/kg	ND (0.23)	U	ND (0.24)	U	ND (0.22)	U	ND (0.22)	U
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-chloronaphthalene	91-58-7	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-chlorophenol	95-57-8	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-methylnaphthalene	91-57-6	mg/kg	0.3 (0.039)	J	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-methylphenol	95-48-7	mg/kg	0.042 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-nitroaniline	88-74-4	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
2-nitrophenol	88-75-5	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
3,3'-dichlorobenzidine	91-94-1	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
3-, and 4-methylphenol	106-44-5	mg/kg	0.14 (0.077)	J	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
4,6-dinitro-2-methylnaphthalene	53-45-1	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
4-bromophenyl phenyl ether	101-55-3	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
4-chloro-3-methylnaphthalene	59-50-7	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
4-chloronitrophenol	106-47-8	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
4-chlorophenyl phenyl ether	7005-72-3	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
4-nitroaniline	100-01-6	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
4-nitrophenol	100-02-7	mg/kg	ND (0.19)	U	ND (0.21)	U	ND (0.19)	U	ND (0.19)	U
acenaphthene	83-32-9	mg/kg	0.16 (0.039)	J	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
acenaphthylene	208-36-8	mg/kg	2.4 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
anthracene	120-12-7	mg/kg	4.1 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
benzo (a) anthracene	56-55-3	mg/kg	11 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
benzo (a) pyrene	50-32-8	mg/kg	8 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
benzo (b) fluoranthene	205-99-2	mg/kg	17 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
benzo (ghi) perylene	191-24-2	mg/kg	3.7 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
benzo (k) fluoranthene	207-08-9	mg/kg	6.1 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
bis(2-chloroethyl) methane	111-91-1	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
bis (2-ethylhexyl) phthalate	117-81-7	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
butyl benzyl phthalate	85-68-7	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
carbazole	86-74-8	mg/kg	1.7 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
chloroethylene	2-8-0-9	mg/kg	15 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
di-n-butyl phthalate	84-74-2	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
dibenz (a,i) anthracene	53-70-3	mg/kg	1.5 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
dibenzofuran	122-64-9	mg/kg	ND (0.039)	J	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
diethyl Phthalate	84-66-2	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
dimethyl phthalate	131-11-3	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
fluoranthene	206-44-0	mg/kg	23 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
hexachlorobutadiene	77-47-4	mg/kg	ND (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
hexachloroethane	67-72-1	mg/kg	0.47 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
hexachlorobenzene	118-74-1	mg/kg	ND (0.039)	R	ND (0.041)	R	ND (0.039)	R	ND (0.038)	U
isophorone	87-68-3	mg/kg	ND (0.077)	U	ND (0.082)	U	ND (0.077)	U	ND (0.076)	U
N-nitrosodimethylamine	621-64-7	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
N-nitrosodiphenylamine	86-73-7	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
naphthalene	91-20-3	mg/kg	0.69 (0.039)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
nitrobenzene	98-95-3	mg/kg	ND (0.039)	U	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
o-phenanthroline	87-86-5	mg/kg	ND (0.19)	U	ND (0.21)	U	ND (0.19)	U	ND (0.19)	U
phenol	108-95-2	mg/kg	0.24 (0.039)	J	0.1 (0.082)	J	0.15 (0.077)	J	0.19 (0.076)	J
pyrene	129-00-0	mg/kg	19 (0.39)	I	ND (0.041)	U	ND (0.039)	U	ND (0.038)	U
<i>Other Parameters</i>										
Moisture Content of N.A.	wt. %		13.6 (0.08)		19 (0.08)		13.5 (0.08)		12.3 (0.08)	
									12.6 (0.08)	11.3 (0.08)

NOTES:

ND denotes "Not Detected" at the method detection limit shown in parentheses.

(a) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(b) EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

U qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during the data validation quality assurance review.

UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified during the data validation quality assurance review.

R qualifier denotes unusable result identified during data validation quality assurance review; compound may or may not be present in the sample.

TABLE 4.1
(Continued)

SOIL SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	GEO-32			Sample Identifier		
			(0' - 1')	(2' - 3')	(5' - 6')	(0' - 1')	(0' - 1') Duplicate ^(b)	(2' - 3')
<i>TCL Semivolatile Organics^(b)</i>								
1,2-dichlorobenzene	120-82-1 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
1,2-dichlorobenzene	95-58-1 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
1,3-dichlorobenzene	541-73-1 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
1,4-dichlorobenzene	106-46-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2,2'-oxybis(1-chloropropane)	108-60-1 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
2,4,5-trichlorophenol	95-95-4 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
2,4,6-trichlorophenol	88-06-2 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
2,4-dichlorophenol	120-83-2 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
2,4-dimethylphenol	105-67-9 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) J	ND (0.079) U
2,4-dinitrophenol	51-28-5 mg/kg	ND (0.21) U	ND (0.23) U	ND (0.23) U	ND (0.23) U	ND (0.22) U	ND (0.22) U	ND (0.24) U
2,4-dinitrotoluene	121-14-2 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
2,6-dinitrotoluene	606-20-2 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2,6-dinitrophenol	91-58-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2,6-dinitrophenol	95-57-8 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2-methylnaphthalene	91-57-6 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2-methylphenol	95-48-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2-nitroaniline	88-74-4 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
2-nitrophenol	88-75-5 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
3,3-dibromobenzoic acid	91-94-1 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
3- and 4-methylphenol	106-44-5 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
4,6-dinitro-2-methylphenol	1834-52-1 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.2) U
4-nitroaniline	100-01-6 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
4-nitrophenyl phenyl ether	100-02-7 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.21) U
benzaphenone	83-32-9 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
benzaphenylene	208-96-8 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
anthracene	120-12-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
benzo (a) anthracene	56-55-3 mg/kg	0.29 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
benzo (b) fluoranthene	205-99-2 mg/kg	0.31 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
benzo (g) perylene	191-24-2 mg/kg	0.23 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
benzo (k) fluoranthene	207-08-9 mg/kg	0.46 (0.039) ND (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
bis (2-chloroethyl) ether	111-91-1 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
bis (2-ethylhexyl) phthalate	117-81-7 mg/kg	ND (0.078) U	0.15 (0.077) J (d)	ND (0.078) U	ND (0.078) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
butyl benzyl phthalate	85-68-7 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
carbazole	86-74-6 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
chloroacetylene	218-01-9 mg/kg	0.37 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
di-n-butyl phthalate	84-74-2 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
di-n-octyl phthalate	117-84-0 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
dibenz (a,h)anthracene	53-70-3 mg/kg	0.063 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
dibenzofuran	132-64-9 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
diethyl phthalate	78-66-2 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
dimethyl phthalate	131-11-3 mg/kg	ND (0.078) U	ND (0.077) U	ND (0.078) U	ND (0.077) U	ND (0.075) U	ND (0.076) U	ND (0.083) U
fluoranthene	206-44-0 mg/kg	0.13 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
fluorene	86-73-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
hexachlorobutadiene	118-74-1 mg/kg	0.26 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
isophorone	78-59-1 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
N-nitrosodimethylamine	61-64-7 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
N-nitrosodipropylamine	86-30-6 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
naphthalene	91-20-3 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
nitrobenzene	98-95-3 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
polychlorophenol	87-80-5 mg/kg	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.19) U	ND (0.2) U
phenanthrene	85-01-8 mg/kg	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
phenol	108-95-2 mg/kg	0.14 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
pyrene	129-00-0 mg/kg	0.25 (0.039) J	ND (0.039) U	ND (0.039) U	ND (0.039) U	ND (0.038) U	ND (0.039) U	ND (0.04) U
<i>Other Parameters</i>								
Moisture Content ^(c)	N/A	wt-%	14.1 (0.08)	13.9 (0.08)	15.0 (0.08)			

TABLE 4-2

VOLATILE ORGANIC COMPOUND DATA SUMMARY
GROUND WATER SCREENING SAMPLES
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	Sample Identifier	GEO-17-GW				GEO-18-GW				GEO-19-GW				GEO-20-GW			
				GEO-16-GW	(Duplicate) ^(a)	GEO-17-GW	(Duplicate) ^(a)	GEO-18-GW	(Duplicate) ^(a)	GEO-19-GW	(Duplicate) ^(a)	GEO-20-GW	(Duplicate) ^(a)	GEO-20-GW	(Duplicate) ^(a)	GEO-20-GW	(Duplicate) ^(a)		
<i>TCL Volatile Organics^(b)</i>																			
1,1,1-Trichloroethane	71-55-6	mg/L	ND (0.001) U	ND (0.050) U	ND (0.001) U	ND (0.050) U	ND (0.001) U	ND (0.005) U	ND (0.001) U	ND (0.002) U									
1,1,2,2-Tetrachloroethane	79-34-5	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
1,1,2-Trichloroethane	79-00-5	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
1,1-Dichloroethane	75-34-3	mg/L	ND (0.002) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
1,1,1-Dichloroethene [*]	75-35-4	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
1,2-Dichloroethane	107-06-2	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
1,2-Dichloropropane	78-87-5	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
2-Butanone	78-93-3	mg/L	ND (0.003) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.003) U	ND (0.003) U	ND (0.003) U									
2-Hexanone	591-78-6	mg/L	ND (0.007) U	ND (0.350) U	ND (0.350) U	ND (0.350) U	ND (0.350) U	ND (0.007) U	ND (0.007) U	ND (0.007) U									
4-Methyl-2-pentanone	108-10-1	mg/L	ND (0.005) U	ND (0.250) U	ND (0.250) U	ND (0.250) U	ND (0.250) U	ND (0.005) U	ND (0.005) U	ND (0.005) U									
Acetone	67-64-1	mg/L	ND (0.006) U	ND (0.300) U	ND (0.300) U	ND (0.300) U	ND (0.300) U	ND (0.006) U	ND (0.006) U	ND (0.006) U									
Benzene	71-43-2	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Bromodichloromethane	75-27-4	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Bromoform	75-25-2	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Bromomethane	74-83-9	mg/L	ND (0.003) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.003) U	ND (0.003) U	ND (0.003) U									
Carbon Disulfide	75-15-0	mg/L	ND (0.003) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.003) U	ND (0.003) U	ND (0.003) U									
Carbon Tetrachloride	56-24-5	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Chlorobenzene	108-90-7	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Chloroethane	75-00-3	mg/L	ND (0.003) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.003) U	ND (0.003) U	ND (0.003) U									
Chloroform	67-66-3	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
cis-1,2-Dichloroethene [*]	74-87-3	mg/L	ND (0.003) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.150) U	ND (0.003) U	ND (0.003) U	ND (0.003) U									
cis-1,3-Dichloropropene	10061-01-5	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Dibromochloromethane	124-48-1	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
Ethylbenzene	100-41-4	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
Methylene Chloride	75-00-2	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
Styrene	100-42-5	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Tetrachloroethane	127-18-4	mg/L	ND (0.001) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.050) U	ND (0.001) U	ND (0.001) U	ND (0.001) U									
Toluene	108-88-3	mg/L	ND (0.002) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.100) U	ND (0.002) U	ND (0.002) U	ND (0.002) U									
trans-1,2-Dichloropropane	156-60-5	mg/L	ND (0.002) U	ND (0.100															

TABLE 4-2
(Continued)

**SEAL VOLATILE ORGANIC COMPOUND DATA SUMMARY
GROUND WATER SCREENING SAMPLES
PHASE II REMEDIAL INVESTIGATION**

Gulf Coast Crossing Site
Vicksburg, MS

NOTES

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample GEO-21-QW.

(c) Corrected value resulting from data validation quality assurance review

(d) Low concentrations of this common laboratory contaminant warrant caution.

I classifier denotes quantization is estimated due to limitations identified

^a Quantifier word(s) that compound should be considered "not-detected." ^b UU quantifier denotes that the compound was not detected, but the quantitati-

TABLE 4-2

(Continued)

VOLATILE ORGANIC COMPOUND DATA SUMMARY
GROUND WATER MONITORING SAMPLES
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number			Sample Identifier		
	Units	MW-10	MW-11	MW-12	MW-13	MW-13 (Duplicate) ^(b)
<i>TCL Volatile Organics</i> ^(c)						
1,1,1-Trichloroethane	71-55-6 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,1,2,2-Tetrachloroethane	79-34-5 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
1,1,2-Trichloroethane	79-00-5 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
1,1-Dichloroethane	75-34-3 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
1,1-Dichloroethene	73-35-4 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,2-Dichloroethane	107-06-2 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
1,2-Dichloropropane	78-87-5 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-Butanone	78-93-3 mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
2-Hexanone	591-78-6 mg/L	ND (0.007) U	ND (0.007) U	ND (0.007) U	ND (0.007) U	ND (0.007) U
4-Methyl-2-pentanone	108-10-1 mg/L	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U
Acetone	67-64-1 mg/L	ND (0.006) R	ND (0.006) R	ND (0.006) R	ND (0.006) R	ND (0.006) R
Benzene	71-43-2 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Bromodichloromethane	75-27-4 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Bromoform	75-25-2 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Bromomethane	74-83-9 mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
Carbon Disulfide	75-15-0 mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
Carbon Tetrachloride	56-23-5 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Chlorobezene	108-90-7 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Chloroethane	75-00-3 mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
Chloroform	67-66-3 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Chloromethane	74-87-3 mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
cis-1,2-Dichloroethene	156-39-0 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
cis-1,3-Dichloropropene	10061-01-5 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Dibromochloromethane	124-48-1 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
Ethylbenzene	100-41-4 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
Methylene Chloride	75-09-2 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
Styrene	100-42-5 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Tetrachloroethene	127-18-4 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Toluene	108-88-3 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
trans-1,2-Dichloroethene	156-60-5 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
trans-1,3-Dichloropropene	10061-02-6 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Trichloroethene	79-01-6 mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Vinyl Chloride	75-01-1 mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
Xylene (Total)	1390-20-7 mg/L	ND (0.001) U	ND (0.001) U	ND (0.004) J	ND (0.001) U	ND (0.001) U

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample MW-19.

(b) Listed on chain-of-custody documentation as sample MW-23.

(c) Target Compound List (TCL) volatile organic compounds (VOCs) by EPA SW-846 method 8260.

J qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review; analytic may or may not be present in the sample.

R qualifier denotes unusable result identified during data validation quality assurance review.

TABLE 4-2

(Continued)

**SEMI-VOLATILE ORGANIC COMPOUND DATA SUMMARY
GROUND WATER MONITORING SAMPLES
PHASE II REMEDIAL INVESTIGATION**

**Gulf Coast Crossing Site
Hattiesburg, Mississippi**

Analytical Parameter	Registry Number	Units	Sample Identifier					
			MW-01	MW-03	MW-04	MW-05	MW-06	MW-07
TCL Semi-volatile Organics ^(a)								
1,2,4-trichlorobenzene	120-882-4	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,2,4-trichlorobenzene	105-50-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,3-dichlorobenzene	541-73-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,4-dichlorobenzene	106-46-7	mg/L	ND (0.001) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4-dioxobis(chloropropane)	108-50-1	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4,5-trichlorophenol	55-95-4	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4,6-trichlorophenol	88-06-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4-dichlorophenol	170-33-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,4-dimethylphenol	105-67-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,4-dinuorophenol	51-28-5	mg/L	ND (0.015) U	ND (0.015) U	ND (0.015) U	ND (0.015) U	ND (0.015) U	ND (0.015) U
2,4-dinitrocluene	121-14-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,6-dinitrotoluene	606-20-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2-chlorophenol	91-58-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-chlorophenol	55-57-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-chlorophenol	54-63-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-methylnaphthalene	91-57-6	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-methylphenol	95-48-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-nitroaniline	188-74-4	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2-nitrophenol	58-75-5	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
3,3-dichlorobenzidine	91-94-1	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
3-nitroaniline	99-09-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
3-nitroaniline	534-52-1	mg/L	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U
4-chloro-2-methylphenol	101-25-3	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
4-chlorophenylphenylether	7005-72-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
4-methylphenol	106-44-5	mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
4-nitroaniline	100-01-6	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
4-nitrophenol	100-02-7	mg/L	ND (0.010) U	ND (0.010) U	ND (0.010) U	ND (0.010) U	ND (0.010) U	ND (0.010) U
anthracene	120-12-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzo(a)anthracene	56-55-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzaldehyde	50-32-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzo(b)fluoranthene	205-99-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzo(g,h)perylene	191-24-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzo(k)fluoranthene	207-08-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
butylbenzylphthalate	111-40-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
cis-2-chloroethylbenzene	112-24-4	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
bis(2-ethylhexyl)phthalate	117-81-7	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
dimethylbenzylphthalate	85-68-7	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
ethoxyacetone	58-74-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
ethylene	218-01-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
di-n-butylphthalate	84-74-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
di-n-octylphthalate	117-84-0	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
dimethylbenzene	58-70-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
fluoranthene	206-44-0	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
fluorine	36-73-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
hexachlorobenzene	118-74-1	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
hexachlorobutadiene	87-68-3	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
hexachlorocyclopentadiene	77-47-4	mg/L	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U
hexachlorobutane	64-72-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
indeno[1,2,3-cd]pyrene	193-39-5	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
isophorone	78-59-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
N-nitrosodiphenylamine	621-64-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
N-nitrosodiphenylamine	56-30-6	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
nitrobenzene	96-95-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
nitrobenzene	107-86-5	mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
phenanthrene	35-01-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
phenol	108-95-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
Pyrene	129-00-0	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (T

TABLE 4-2
(Continued)
SEMI-VOLATILE ORGANIC COMPOUND DATA SUMMARY
GROUND WATER MONITORING SAMPLES
PHASE II REMEDIAL INVESTIGATION
Enuf Coast Crossing Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	MW-09	Sample Identifier			
				MW-09 (Duplicate) ^(a)	MW-10 (Duplicate) ^(a)	MW-11	MW-12
TCL Semivolatile Organics (v)							
1,2,4-trichlorobenzene	120-882-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,2-dichlorobenzene	95-50-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,3-dichlorobenzene	541-73-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
1,4-dichlorobenzene	106-66-7	mg/L	ND (0.001) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,2-bis(3-methylpropyl)chloropropene	106-60-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,2,5-trichlorophenol	95-95-4	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4,6-trichlorophenol	88-06-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2,4-dichlorophenol	120-83-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,4-dimethylphenol	103-67-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,4-dinitrophenol	51-28-5	mg/L	ND (0.005) U	ND (0.015) U	ND (0.015) U	ND (0.015) U	ND (0.015) U
2,4-dinitrotoluene	121-14-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2,6-dinitrotoluene	606-20-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2-chloronaphthalene	91-58-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-chlorophenol	95-57-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-methylnaphthalene	91-57-6	mg/L	0.43 (0.020) U	0.5 (0.030) U	ND (0.001) U	0.004 (0.001) J	ND (0.001) U
2-methylphenol	95-48-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
2-nitroaniline	88-74-4	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
2-nitrophenol	88-75-5	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
3,3'-dichlorobenzidine	91-94-1	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
3-nitroaniline	99-09-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
4-chloro-2-methylphenol	53-52-1	mg/L	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U
4-chlorophenylphenylether	101-35-3	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
4-chloro-3-methylphenol	59-50-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
4-chlorotoluene	106-47-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
4-nitroaniline	100-01-6	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
4-nitrophenol	100-02-7	mg/L	ND (0.010) U	ND (0.010) U	ND (0.010) U	ND (0.010) U	ND (0.010) U
acenaphthene	83-32-9	mg/L	0.19 (0.020) J	0.21 (0.020) J	ND (0.001) U	0.003 (0.001) J	ND (0.001) U
acenaphthylene	206-96-8	mg/L	0.007 (0.001) J	0.008 (0.001) J	ND (0.001) U	ND (0.001) U	ND (0.001) U
anthracene	120-12-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzofluoranthene	56-55-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzophenone	50-32-8	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzodibutylane	205-59-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzoguaiacol	191-24-2	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
benzofluoranthene	207-08-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
bis(2-chloroethyl)ether	111-91-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
butylbenzylphthalate	85-68-7	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
carbazole	86-74-8	mg/L	0.11 (0.001) U	0.12 (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
diarylene	218-01-9	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
di-n-butylphthalate	84-74-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
di-n-octylphthalate	117-68-0	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
dibenzofluoranthene	53-70-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
dibenzofuran	152-54-9	mg/L	0.12 (0.001) U	0.14 (0.001) U	ND (0.001) U	0.004 (0.001) J	ND (0.001) U
diethyl phthalate	84-66-2	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
dimethylphthalate	131-11-3	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
diisopropene	204-44-0	mg/L	0.007 (0.001) J	0.007 (0.001) J	ND (0.001) U	ND (0.001) U	ND (0.001) U
diisobutene	86-73-7	mg/L	0.03 (0.001) U	0.1 (0.001) U	ND (0.001) U	0.001 (0.001) U	ND (0.001) U
hexachlorobenzene	116-74-1	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
hexachlorobutadiene	87-68-3	mg/L	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U	ND (0.002) U
hexachlorocyclopentadiene	77-77-4	mg/L	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U	ND (0.005) U
hexachlorobutene	67-72-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
indeno[1,2,3-cd]pyrene	193-39-5	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	0.072 (0.001) ND (0.001) U	ND (0.001) U
isophorone	78-59-1	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
isopropylbenzene	62-15-7	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
methanol	65-05-6	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
naphthalene	91-20-3	mg/L	2.1 (0.020) U	2.4 (0.030) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
nitrobenzene	98-95-3	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
penta chlorophenol	87-86-5	mg/L	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U	ND (0.003) U
phenanthrene	85-01-8	mg/L	0.052 (0.001) U	0.058 (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U
phenol	108-95-2	mg/L	0.004 (0.001) J	0.004 (0.001) J	ND (0.001) U	ND (0.001) U	ND (0.001) U
pyrene	129-00-0	mg/L	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U	ND (0.001) U

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample MW-19.

(b) Listed on chain-of-custody documentation as sample MW-23.

(c) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270.
U quantifier denotes not detected.
J quantifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

TABLE 4-2
(Continued)

PAH COMPOUND DATA SUMMARY
GROUND WATER MONITORING SAMPLES
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Creoant Site
Hattiesburg, Mississippi

Analytical Parameter ^(a)	CAS Registry Number	Units	MW-01	MW-03	MW-04	MW-05	MW-06	MW-07	MW-08	Sample Identifier
										MW-02
<i>PAH Compounds^(b)</i>										
Aceanaphthalene	83-12-9	mg/L	ND (0.000780)	U	ND (0.000780)	U	ND (0.000800)	U	ND (0.000810)	J
Aceanaphthalene	208-94-8	mg/L	ND (0.000780)	U	ND (0.000780)	U	ND (0.000800)	U	ND (0.000810)	U
Anthracene	120-12-7	mg/L	ND (0.000030)	U	0.000178 (0.000030)	J	0.000031 (0.000030)	U	0.000036 (0.000031)	J
Benzo(a)anthracene	56-55-3	mg/L	ND (0.000018)	U	0.00131 (0.000017)	U	ND (0.000018)	U	0.000018 (0.000018)	U
Benz(a)anthracene	50-32-8	mg/L	ND (0.000021)	U	ND (0.000021)	U	ND (0.000022)	U	0.000022 (0.000022)	U
Benz(a)fluoranthene	205-98-2	mg/L	ND (0.000044)	U	ND (0.000044)	U	ND (0.000034)	U	0.000047 (0.000035)	J
Benz(g,h,i)perylene	191-24-2	mg/L	ND (0.000097)	U	ND (0.000096)	U	ND (0.000097)	U	ND (0.000099)	U
Benz(k)fluoranthene	207-08-9	mg/L	ND (0.000026)	U	ND (0.000026)	U	ND (0.000027)	U	ND (0.000027)	U
Chrysene	218-01-9	mg/L	ND (0.000058)	J	0.00039 (0.000057)	U	0.000063 (0.000058)	J	ND (0.000059)	U
Dibenz(a,h)anthracene	52-70-3	mg/L	ND (0.000046)	U	ND (0.000046)	U	ND (0.000046)	U	ND (0.000046)	U
Fluoranthene	206-44-0	mg/L	ND (0.000020)	U	0.00038 (0.000019)	U	ND (0.000020)	U	0.000074 (0.000020)	J
Fluorene	86-73-7	mg/L	ND (0.000170)	U	0.00059 (0.000160)	U	ND (0.000170)	U	0.00052 (0.000170)	J
Indol(1,2,3-cd)perylene	133-39-5	mg/L	ND (0.000063)	U	ND (0.000062)	U	ND (0.000063)	U	0.0155 (0.0034)	J
Naphthalene	91-20-3	mg/L	ND (0.000040)	U	ND (0.000040)	U	ND (0.000039)	U	ND (0.000065)	U
Phenanthrene	84-61-8	mg/L	0.000045	U	0.00214 (0.000045)	ND (0.000045)	ND (0.000046)	U	0.000046 (0.000047)	J
Pyrene	129-09-0	mg/L	0.00329 (0.000180)	J	ND (0.000170)	U	10.4 (0.00018)	J(b)	ND (0.00018)	J

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Polycyclic Aromatic Hydrocarbons (PAHs) by EPA SW 846 method 8310.

(b) Corrected value resulting from data validation quality assurance review.

U qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

JJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified during the data validation quality assurance review.

TABLE 4-2
(Continued)

PAH COMPOUND DATA SUMMARY
GROUND WATER MONITORING SAMPLES
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Crossing Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	MW-49	MW-49		ATW-10	MW-11	MW-12	MW-13	MW-13 (Duplicate) ^(a)	
				(Duplicate) ^(a)	(Duplicate) ^(a)						
PAH Compounds^(c)											
Acenaphthalene	83-32-9	mg/L	0.230 (0.000800)	0.230 (0.000800)	ND (0.000800)	U	ND (0.000800)	U	ND (0.000800)	U	
Acenaphthylene	205-98-8	mg/L	0.197 (0.000800)	0.191 (0.000800)	ND (0.000800)	U	ND (0.000800)	U	ND (0.000800)	U	
Anthracene	120-12-7	mg/L	0.00417 (0.000031)	0.00390 (0.000031)	ND (0.000032)	U	ND (0.000031)	U	ND (0.000031)	U	
Benzofluoranthene	36-55-3	mg/L	ND (0.000018)	U	0.000186 (0.000018)	U	ND (0.000186)	U	ND (0.000186)	U	
Benz(a)pyrene	50-32-8	mg/L	ND (0.000022)	U	0.000038 (0.000022)	J	ND (0.000023)	U	ND (0.000023)	U	
Benzofluoranthene	205-99-2	mg/L	0.000041 (0.000035)	J	ND (0.000035)	U	ND (0.000036)	U	ND (0.000035)	U	
Benz(a)phenanthrene	191-24-2	mg/L	ND (0.000099)	U	ND (0.000099)	U	ND (0.000095)	U	ND (0.000095)	U	
Benzofluoranthene	207-08-9	mg/L	0.000037 (0.000027)	J	ND (0.000027)	U	ND (0.000026)	U	ND (0.000026)	U	
Chrysene	218-01-9	mg/L	0.000234 (0.000059)	J	0.000128 (0.000059)	J	0.000117 (0.000059)	J	ND (0.000059)	U	
Dibenz(a,h)anthracene	33-70-3	mg/L	ND (0.000047)	U	ND (0.000047)	U	ND (0.000048)	U	ND (0.000047)	U	
Fluoranthene	206-44-0	mg/L	0.00532 (0.000020)	0.00499 (0.000020)	ND (0.000020)	U	ND (0.000020)	U	ND (0.000020)	U	
Fluorene	95-75-7	mg/L	0.093 (0.008500)	0.078 (0.008500)	ND (0.00070)	U	ND (0.00070)	U	ND (0.00070)	U	
Indeno(1,2,3-cd)phenanthrene	150-39-5	mg/L	ND (0.000054)	U	ND (0.000054)	U	ND (0.000066)	U	ND (0.000064)	U	
Naphthalene	91-20-5	mg/L	2.200 (0.040000)	1.810 (0.040000)	ND (0.00820)	U	ND (0.00820)	U	ND (0.00820)	U	
Phenanthrene	85-01-8	mg/L	0.050 (0.002100)	0.041 (0.002100)	ND (0.00047)	U	ND (0.00046)	U	ND (0.00046)	U	
Pyrene	125-04-0	mg/L	0.00515 (0.000180)	0.00395 (0.000180)	0.00184 (0.000180)	0.00154 (0.000180)	0.00277 (0.000190)	ND (0.000180)	U	0.00099 (0.000180)	J

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Listed on chain-of-custody documentation as sample MW-19.

(b) Listed on chain-of-custody documentation as sample MW-22.

(c) Polycyclic Aromatic Hydrocarbons (PAHs) by EPA SW-846 method 3310.

U qualifier denotes and detected.

J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

I qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified during the data validation quality assurance review.

TABLE 4-3
SURFACE WATER SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Unit	Sample Identifier				
			SW-02	SW-03	SW-04	SW-06	SW-07
TCL Semiextractable Organics (a)							
1,2-dichlorobenzene	120-82-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
1,2-dichlorobenzene	95-50-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
1,3-dichlorobenzene	541-73-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
1,4-dichlorobenzene	106-46-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2,2-bis(1-chloropropane)	108-50-1	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2,4,5-trichloropheno	92-35-4	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2,4,5-trichlorophenol	88-06-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2,4-dichlorophenol	120-83-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2,4-dimethylphenol	105-57-9	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2,4-dinitrophenol	51-28-5	mg/L	ND (0.016)	U	ND (0.016)	U	ND (0.015)
2,4-dinitrotoluene	121-14-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2,6-dinitrotoluene	606-20-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2,4-dioxane	91-98-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2,4-dioxane	95-37-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
2-methylbenzaldehyde	91-57-6	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2-methylbenzene	99-09-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
3-methoxyline	524-52-1	mg/L	ND (0.005)	U	ND (0.005)	U	ND (0.005)
4,6-dinitro-2-methylphenol	106-44-5	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
2,4-diphenyl phenyl ether	101-55-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
3,3-dimethylbenzidine	59-30-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
4-chloroaniline	106-47-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
4-chlorophenyl Propyl Ether	7005-72-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
4-chlorophenylpropanone	100-01-6	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
4-nitrophenol	100-02-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
4-nitrophenol	100-02-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
anthracene	120-12-7	mg/L	0.013 (0.001)	U	ND (0.001)	U	ND (0.001)
benzo(a)anthracene	56-55-3	mg/L	0.005 (0.001)	J	ND (0.001)	U	ND (0.001)
benzo(a)pyrene	50-32-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
benzo(b)fluoranthene	205-99-2	mg/L	0.012 (0.001)	U	ND (0.001)	U	ND (0.001)
benzo(k)perylene	191-24-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
benzo(k)fluoranthene	207-08-9	mg/L	0.002 (0.001)	J	ND (0.001)	U	ND (0.001)
bis(2-chloromethoxy) methane	111-91-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
bis(2-chlorovinyl) ether	111-44-4	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
bis(2-ethylhexyl) phthalate	117-81-7	mg/L	0.003 (0.002)	J (b)	ND (0.002)	U	ND (0.002)
butyl benzyl phthalate	83-68-7	mg/L	ND (0.002)	U*	ND (0.002)	U	ND (0.002)
carnazole	218-01-9	mg/L	0.006 (0.001)	J	ND (0.001)	U	ND (0.001)
chloroethylene	88-74-8	mg/L	0.009 (0.002)	U*	ND (0.002)	U	ND (0.002)
chloroethylene	117-84-0	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
chloroethylene	55-70-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
di-benzofuran	132-64-9	mg/L	0.011 (0.001)	U	ND (0.001)	U	ND (0.001)
diethyl phthalate	84-66-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
dimethyl phthalate	131-11-3	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
di-n-octyl phthalate	206-44-0	mg/L	0.039 (0.001)	U	0.013 (0.001)	U	0.012 (0.001)
fluorene	86-73-7	mg/L	0.012 (0.001)	U	0.011 (0.001)	U	ND (0.001)
hexachlorobenzene	118-74-1	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
hexachlorobutadiene	87-68-3	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002)
hexachloropentaadiene	75-47-4	mg/L	ND (0.003)	U	ND (0.003)	U	ND (0.003)
heptachlorobutane	67-72-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
indeno(1,2,3-cd) pyrene	193-39-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
isophorone	78-59-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
N-nitroodinpropylamine	62-64-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
N-nitrodiphenylamine	86-30-6	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
naphthalene	91-20-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
nitrobenzene	98-95-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001)
pentachlorophenol	81-45-3	mg/L	ND (0.003)	U	ND (0.003)	U	ND (0.003)
phenol	108-95-2	mg/L	0.017 (0.001)	U	ND (0.001)	U	ND (0.001)
pyrene	123-00-0	mg/L	0.021 (0.001)	U	ND (0.001)	U	ND (0.001)

NOTES:

- (a) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270.
- (b) Low concentrations of this common laboratory contaminant warrant caution if this value is used as basis for environmental risk assessment or other decision-making process.
- ND denotes "Not Detected" at method detection limit shown in parentheses.
- U qualifier denotes not detected.
- I qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.
- U^a qualifier denotes that compound should be considered "not-detected" since it was detected in a corresponding field, trip, and/or laboratory blank sample at a similar concentration.

TABLE 4-3

(Continued)

**SURFACE WATER SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION
Gulf Coast Crossing Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Registry Number	Units	Sample Identifiers				CFO ^b
			SW-03 (Duplicate) ^a	SW-08	SW-09	SW-10	
TCL Semivolatile Organics^c							
1,1,1-trichloroethane	123-82-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
1,1,2,2-tetrachloroethane	95-50-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
1,3-dichlorobenzene	541-75-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
1,4-dichlorobenzene	106-56-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
1,4-dimethylbenzene	108-60-7	mg/L	ND (0.002)	U	ND (0.003)	U	ND (0.002) U
2,2-dichloropropane	95-95-8	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
2,4,6-trichlorophenol	88-06-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
2,4-dichlorophenol	120-83-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2,4-dimethylphenol	105-57-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2,4,4,4-tetrachlorophenol	51-38-5	mg/L	ND (0.015)	U	ND (0.015)	U	ND (0.016) U
2,4-dinitrochloroethane	121-14-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2,6-dimethylnaphthalene	505-20-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
2,6-dimethylphenol	91-57-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2,6-dinitrophenol	35-57-4	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2-methylpropanoate	91-57-6	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2-nitroxyphenol	95-88-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
2-nitrophenol	88-94-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
2-nitrophenoxide	88-75-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
3,3'-dichlorobenzidine	91-94-1	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
3-nitroaniline	99-09-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
4,4-dimethoxybutyl phenyl ether	53-45-1	mg/L	ND (0.005)	U	ND (0.005)	U	ND (0.005) U
4-hydroxyphenylphenyl ether	103-55-3	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
4-chloro-3-methylphenol	59-30-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
4-chloronaphthalene	106-47-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
4-chlorophenyl phenyl ether	105-75-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
4-chlorophenylphenol	105-36-5	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
4-fluorobiphenyl	100-01-6	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
4-nitrophenol	100-92-7	mg/L	ND (0.01)	U	ND (0.01)	U	ND (0.01) U
4-nitrophenone	53-32-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
4-nitrophenylamine	208-96-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzene	120-52-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzo(a)anthracene	56-55-3	mg/L	ND (0.001)	J	ND (0.001)	U	ND (0.001) U
benzo(a)pyrene	50-32-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzo(b)fluoranthene	205-99-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzo(a)pyrene	191-24-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzo(k)Fluoranthene	207-08-9	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
benzo(a)chloranthene	111-21-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
bis(2-ethylhexyl) phthalate	110-44-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
butyl benzyl phthalate	117-81-7	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
butyl benzyl phthalate	85-58-7	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
butylbenzene	55-07-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
butylbenzene	132-56-9	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
diethyl phthalate	84-66-2	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
dimethyl phthalate	131-31-3	mg/L	ND (0.002)	U	ND (0.003)	U	ND (0.002) U
fluorene	206-44-0	mg/L	ND (0.013)	V	0.002 (0.001)	J	0.012 (0.001)
fluorene	86-73-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
hexachlorobenzene	118-74-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
hexachlorobutadiene	67-68-3	mg/L	ND (0.002)	U	ND (0.002)	U	ND (0.002) U
hexachlorocyclopentadiene	77-57-4	mg/L	ND (0.005)	U	ND (0.005)	U	ND (0.005) U
hexachlorobutene	67-72-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
indeno(1,2,3- <i>cd</i>) pyrene	193-39-5	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
isophorone	78-99-1	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
methoxybenzophenone	62-1-54-7	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
nitroaromatics	91-20-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
nitrobenzene	98-95-3	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
nitrochlorophenols	67-35-5	mg/L	ND (0.003)	U	ND (0.003)	U	ND (0.003) U
phenanthrene	85-01-8	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
phenoxy	108-95-2	mg/L	ND (0.001)	U	ND (0.001)	U	ND (0.001) U
pyrene	129-00-0	mg/L	ND (0.001)	J	0.001 (0.001)	J	ND (0.001) U

NOTES:

(a) Listed on state-of-the-art documentation as Sample SW-12.

(b) Courtney Food Additive Inventory overall.

(c) Target Compound List (TCL) base semi/acid-extractable organic compounds by EPA SW-846 method B270.

(d) Low concentrations of this compound laboratory contaminant warrant caution if this value is used as basis for environmental risk assessment or other decision-making process.

U

qualifier denotes not detected.

J qualifier denotes quantitation is estimated due to limitations identified during quality assurance review.

U

qualifier denotes that compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to bias identified during the data validation quality assurance review.

a similar concentration.

UJ qualifier denotes that the compound was not detected during quality assurance review.

TABLE 4-4
SEDIMENT SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION

Gulf Coast Creosoting Site

Hattiesburg, Mississippi

Analytical Parameter	CAS Registry Number	Units	Sample Identifier					
			SD-01	SD-02	SD-03	SD-04	SD-05	SD-06
TCI Semivolatile Organics (a)								
1,2-dichlorobenzene	120-32-1	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
1,2-dichlorobenzene	95-50-1	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
1,3-dichlorobenzene	541-73-1	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
1,4-dichlorobenzene	106-46-7	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2,2'-oxybis(4-chlorophenol)	108-61-1	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2,2,2-trichlorophenol	95-52-1	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
2,4-dichlorophenol	88-06-2	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
2,4-dichlorophenol	120-83-2	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
2,4-dimethylphenol	105-67-9	mg/kg	ND (0.079)	U	1.5 (1)	ND (0.085)	U	ND (0.8)
2,4-dinitrophenol	51-28-5	mg/kg	ND (0.230)	U	ND (3)	ND (0.25)	U	ND (2.3)
2,4-dinitrotoluene	121-14-2	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.4)
2,6-dinitrotoluene	606-20-2	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2,2-dichlorophenol	91-38-7	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2,2-dibromophenol	93-57-8	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2-methylnaphthalene	91-57-6	mg/kg	ND (0.039)	U	1.50 (25)	0.44 (0.043)	38 (0.4)	ND (0.78)
2-methylphenol	95-48-7	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.4)
2-nitroaniline	88-74-4	mg/kg	ND (0.039)	U	ND (1)	ND (0.085)	U	ND (0.4)
2-nitrophenol	89-75-5	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	J	ND (0.4)
3,3-dichlorobenzidine	91-94-1	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	J	ND (0.4)
3- and 4-methylphenol	106-44-5	mg/kg	ND (0.039)	U	ND (2.5)	ND (0.21)	U	ND (0.4)
3-nitroaniline	93-33-9	mg/kg	ND (0.039)	U	100 (25)	0.89 (0.043)	140 (20)	J
acenaphthene	208-96-8	mg/kg	ND (0.039)	U	35 (0.51)	8.9 (0.85)	6.8 (0.4)	ND (0.78)
anthracene	120-12-7	mg/kg	ND (0.039)	U	190 (25)	5.5 (0.85)	3.3 (0.4)	ND (0.78)
benzo (a) anthracene	121-02-3	mg/kg	ND (0.039)	J	330 (25)	27 (0.85)	100 (20)	J
benzo (a) phenanthrene	90-37-8	mg/kg	ND (0.039)	J	130 (25)	49 (0.85)	33 (0.4)	ND (0.78)
benzo (b) fluoranthene	205-99-2	mg/kg	ND (0.039)	J	180 (25)	78 (0.85)	46 (0.4)	ND (0.78)
benzo (g,h,i) phenanthrene	191-24-2	mg/kg	0.046 (0.039)	J	36 (0.51)	32 (0.85)	9.5 (0.4)	ND (0.78)
benzo (k) fluoranthene	207-08-9	mg/kg	ND (0.039)	U	64 (0.51)	23 (0.85)	18 (0.4)	ND (0.78)
bis (2-chloroethyl)benzene	112-91-1	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
bis (2-chloroethyl) ether	111-44-4	mg/kg	0.077 (0.039)	J	590 (25)	9.7 (0.043)	100 (20)	J
di-n-butyl phthalate	84-74-2	mg/kg	0.082 (0.079)	U*	ND (1)	0.25 (0.085)	U*	ND (0.8)
di-n-octyl phthalate	117-84-0	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
butyl benzyl phthalate	85-68-7	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
dibenz (a,h) anthracene	55-70-3	mg/kg	ND (0.039)	U	12 (0.51)	9.6 (0.85)	3.3 (0.4)	J
dibenzofuran	132-64-9	mg/kg	ND (0.039)	U	940 (25)	4.8 (0.043)	150 (20)	J
diethyl phthalate	84-66-2	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
dimethyl phthalate	131-11-3	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.8)
fluoranthene	206-44-0	mg/kg	0.089 (0.039)	J	160 (25)	21 (0.85)	470 (20)	J
fluorene	86-73-7	mg/kg	ND (0.039)	U	120 (25)	1 (0.043)	76 (20)	J
hexachlorobenzene	118-74-1	mg/kg	ND (0.039)	U	47 (0.51)	39 (0.85)	12 (0.4)	ND (0.78)
hexachlorobutadiene	87-58-3	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.8)
N-nitrosodimethylamine	77-47-4	mg/kg	ND (0.039)	U	ND (2.5)	ND (0.21)	ND (2)	ND (0.78)
hexachlorobutane	67-72-1	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.8)
indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	0.049 (0.039)	J	300 (25)	1.6 (0.043)	14 (0.4)	ND (0.78)
naphthalene	91-20-3	mg/kg	ND (0.039)	U	ND (1)	ND (0.043)	U	ND (0.8)
nitrobenzene	98-95-3	mg/kg	ND (0.039)	U	ND (0.51)	ND (0.043)	U	ND (0.8)
pentachlorophenol	87-86-5	mg/kg	ND (0.200)	U	ND (2.5)	ND (0.21)	U	ND (0.19)
N-nitrodi(2-phenylamino)benzene	86-30-6	mg/kg	ND (0.039)	U	320 (25)	3.6 (0.043)	870 (20)	0.66 (0.042)
phenanthrene	85-01-8	mg/kg	ND (0.079)	U	ND (1)	ND (0.085)	U	ND (0.78)
phenol	108-95-2	mg/kg	0.110 (0.039)	J	100 (25)	32 (0.85)	300 (20)	1.6 (0.042)
pyrene	129-00-0	mg/kg	ND (0.039)	J	ND (0.51)	ND (0.043)	U	ND (0.78)
Other Parameters								
Moisture Content (b)	N.A.	wt. %	151 (0.08)		34.2 (0.08)	21.9 (0.08)	16.4 (0.08)	20.5 (0.08)
							14.3 (0.08)	

NOTES:

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (TCI) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270, reported as dry-weight concentrations.

(b) EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

(c) Low concentrations of this common laboratory contaminant warrant caution if this value is used as basis for environmental risk assessment or other decision-making process.

U = qualifier denotes not detected.

J = qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

J* = qualifier denotes that compound should be considered "not-detected" since it was detected in a corresponding field, trip, and/or laboratory blank sample at a similar concentration.

TABLE 4-4
(Continued)

**SEDIMENT SAMPLE DATA SUMMARY
PHASE II REMEDIAL INVESTIGATION**

NOTES

NOTES.

ND denotes "Not Detected" at method detection limit shown in parentheses.

(a) Target Compound List (TCL) base neutral/acid-extractable organic compounds method 8270 reported as dry-weight concentrations on chain-of-custody documentation as sample SD-12.

EPA method 160.3 (*Methods for Chemical Analysis of Water and Wastes*, March 1983).

U qualifier denotes not de-

J quantifier denotes quantification is estimated due to him

U* qualifier denotes that compound was not detected, but the quantitation limit may or may not be higher than the value shown in parentheses due to a bias identified similar concentration.

Table 4-1

Summary of Soil Analytical Results
Fill Area

Gulf States Crooseting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-43/7-8'	GEO-44/5-6'	GEO-45/7-8'
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>					
Naphthalene	91-20-3	mg/kg	ND (0.028)	ND (0.3)	ND (0.31)
Acenaphthylene	208-96-8	mg/kg	ND (0.028)	ND (0.3)	ND (0.31)
Acenaphthene	83-32-9	mg/kg	ND (0.028)	ND (0.3)	ND (0.31)
Fluorene	86-73-7	mg/kg	ND (0.0026)	0.029 J	ND (0.028)
Phenanthrene	85-01-8	mg/kg	ND (0.0011)	U*	0.22 ND (0.011)
Anthracene	120-12-7	mg/kg	ND (0.00053)	U*	0.111 ND (0.0057)
Fluoranthene	206-44-0	mg/kg	ND (0.00053)	U*	0.297 ND (0.0057)
Pyrene	129-00-0	mg/kg	ND (0.0026)	U*	0.31 ND (0.028) U*
Benz(a)anthracene	56-55-3	mg/kg	ND (0.00026)	U*	0.107 ND (0.0028) U*
Chrysene	218-01-9	mg/kg	ND (0.0011)	U*	ND (0.011) U* ND (0.011) U*
Benzo(b)fluoranthene	205-99-2	mg/kg	0.00076	J	0.095 0.0031 J
Benzo(k)fluoranthene	207-08-9	mg/kg	0.00051	J	0.051 0.0026 J
Benzo(a)pyrene	50-32-8	mg/kg	0.00169	J	0.116 0.0066 J
Dibenz(a,h)anthracene	53-70-3	mg/kg	ND (0.00053)	0.0188 J	ND (0.0057) J
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.0018	J	0.085 J ND (0.017)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.0014	J	0.102 J ND (0.011)
<i>Other Parameters</i>					
Moisture	%	5.06%	9.6%	11.7%	

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinseate blanks.

Table 4-2

Summary of Soil Analytical Results
Process Area

**Gulf States Crosscutting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	GEO-46/0-1'	GEO-46/2-3'	GEO-46/5-6'
<i>Poly cyclic Aromatic Hydrocarbons (PAHs)</i>					
Naphthalene	91-20-3	mg/kg	ND (12.0)	ND (0.15)	ND (0.15)
Acenaphthylene	208-96-8	mg/kg	ND (12.0)	ND (0.15)	ND (0.15)
Acenaphthene	83-32-9	mg/kg	ND (12.0)	ND (0.15)	ND (0.15)
Fluorene	86-73-7	mg/kg	1.50 J	ND (0.014)	ND (0.014)
Phenanthrene	85-01-8	mg/kg	8.20	0.041 J	0.0061 J
Anthracene	120-12-7	mg/kg	24.0	0.130	ND (0.0029)
Fluoranthene	206-44-0	mg/kg	37.0	0.190	0.045
Pyrene	129-00-0	mg/kg	54.0	0.250	0.056 J
Benz(a)anthracene	56-55-3	mg/kg	20.0	0.094	0.032
Chrysene	218-01-9	mg/kg	20.0	0.100	0.033 J
Benzo(b)fluoranthene	205-99-2	mg/kg	21.0	0.096	0.053
Benzo(k)fluoranthene	207-08-9	mg/kg	11.0	0.052	0.026
Benzo(a)pyrene	50-32-8	mg/kg	16.0	0.083	0.045
Dibenz(a,h)anthracene	53-70-3	mg/kg	2.30	0.011 J	0.0069 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	7.80	0.035 J	0.030 J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	9.70	0.046 J	0.034 J
<i>Other Parameters</i>					
Moisture	%	8.46%	10.80%	12.80%	

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.
Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinse blanks.

Table 4-2
(Continued)

Summary of Soil Analytical Results Process Area

Gulf States Creosoting Site Hattiesburg, Mississippi

Analytical Parameter		CAS Number	Units	GEO-47/0-1'	GEO-47/2-3'	GEO-47/5-6'	GEO-47/7-8'	GEO-477-8'
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	91-20-3	mg/kg	ND (2.8)	ND (0.14)	ND (3.40)	190	12.00	J
Acenaphthylene	208-96-8	mg/kg	ND (2.8)	ND (0.14)	ND (3.2)	ND (3.2)	8.80	J
Acenaphthene	83-32-9	mg/kg	ND (2.8)	ND (0.14)	45.0	9.70		
Fluorene	86-73-7	mg/kg	ND (0.26)	ND (0.013)	43.0			
Phenanthrene	85-01-8	mg/kg	0.31	J	0.0053	J	31.00	
Anthracene	120-12-7	mg/kg	ND (0.053)	ND (0.0026)	ND (0.0026)	6.6	1.90	
Fluoranthene	206-44-0	mg/kg	2.80	0.01	J	65.0	16.00	
Pyrene	129-00-0	mg/kg	5.10	0.016	J	69.0	16.00	
Benz(a)anthracene	56-55-3	mg/kg	2.10	0.0049	J	15.0	3.40	
Chrysene	218-01-9	mg/kg	2.70	ND (0.0051)	ND (0.0051)	14.0	2.00	
Benz(b)fluoranthene	205-99-2	mg/kg	3.50	0.011	8.90		1.40	
Benz(k)fluoranthene	207-08-9	mg/kg	1.80	0.0056	J	4.80	0.78	
Benz(a)pyrene	50-32-8	mg/kg	3.00	0.011	J	9.60	1.50	
Dibenz(a,b)anthracene	53-70-3	mg/kg	0.48	J	ND (0.0026)	1.40	0.25	J
Benz(g,h,i)perylene	191-24-2	mg/kg	1.60	J	0.0089	J	3.30	0.39
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	2.00	0.009	J	4.90	0.65	J
<i>Other Parameters</i>								
Moisture	%	5.17%	2.67%	20.9%	20.9%		15.4%	

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ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

data validation qualifier denotes constituent was detected in corresponding laboratory blank.

Table 4-2
(Continued)

Summary of Soil Analytical Results

Process Area

Gulf States Croceting Site
Bettisburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-480-1'	GEO-482-3'	GEO-485-6'	GEO-590-1'	GEO-592-3'	GEO-595-6'
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>								
Naphthalene	91-20-3	mg/kg	2,200	J	80	0.17	J	4.8
Acenaphthylene	208-96-8	mg/kg	ND (1500)	ND (3.4)	U*	ND (0.16)	ND (0.16)	ND (0.16) U*
Acenaphthene	83-32-9	mg/kg	ND (1500)	36	ND (0.16)	ND (2.4)	ND (0.16)	ND (0.16)
Fluorene	86-73-7	mg/kg	1,800	43	0.16	J	0.95	J
Phenanthrene	85-01-8	mg/kg	6,400	130	0.6	10	0.12	0.026 J
Anthracene	120-12-7	mg/kg	3,000	8.4	0.12	ND (0.044)	ND (0.003)	ND (0.003) U*
Fluoranthene	206-44-0	mg/kg	4,600	64	0.22	15	0.13	0.049
Pyrene	125-00-0	mg/kg	4,400	61	0.2	16	0.13	J 0.081 J
Benz(a)anthracene	56-55-3	mg/kg	930	12	0.022	5.8	0.042	0.026
Chrysene	218-01-9	mg/kg	690	20	0.0099	J	4.8	0.037 J
Benzo(b)fluoranthene	205-99-2	mg/kg	530	5.2	0.014	5.7	0.071	0.087 J
Benzo(k)fluoranthene	207-08-9	mg/kg	290	3.0	0.0075	J	2.8	0.032 J 0.038 J
Benzo(a)pyrene	50-32-8	mg/kg	500	6.1	0.017	J	6.1	0.072 J 0.1 J
Dibenz(a,h)anthracene	53-70-3	mg/kg	64	J	0.85	0.0038	J	0.94 J 0.021 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	130	J	1.4	J	0.013	3.7 J 0.036 J 0.087
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	250	J	2.6	ND (0.006)	4.6	0.051 J 0.095
<i>Other Parameters</i>								
Moisture	%	29.7%	20.6%	17.2%	8.55%	16.7%	16.0%	

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown as dry-weight concentrations.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinse blanks.

Table 4-2
(Continued)

Summary of Soil Analytical Results
Process Area

Gulf States Croesotting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-6000-1'	GEO-6000-1' Duplicate ^(a)	GEO-6000-3'	GEO-6000-6'
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	mg/kg	ND (0.56)	ND (0.56)	ND (0.029)	ND (0.032)
Acenaphthylene	208-96-8	mg/kg	ND (0.56)	ND (0.56)	ND (0.029)	U*
Acenaphthene	83-32-9	mg/kg	ND (0.56)	ND (0.56)	ND (0.029)	ND (0.032)
Fluorene	86-73-7	mg/kg	ND (0.052)	ND (0.052)	0.0036	J
Phenanthrene	85-01-8	mg/kg	0.15	J	0.012	0.0068
Antracene	120-12-7	mg/kg	ND (0.01)	ND (0.01)	ND (0.0054)	ND (0.00058)
Fluoranthene	206-44-0	mg/kg	0.42	0.34	0.016	0.013
Pyrene	129-00-0	mg/kg	0.58	0.47	0.020	J
Benz(a)anthracene	56-55-3	mg/kg	0.26	0.18	0.0091	0.0068
Chrysene	218-01-9	mg/kg	0.27	0.16	J	0.016
Benz(b)fluoranthene	205-99-2	mg/kg	0.44	0.3	0.013	J
Benz(2k)fluoranthene	207-08-9	mg/kg	0.21	0.14	0.0062	0.0047
Benzo(a)pyrene	50-32-8	mg/kg	0.37	0.25	0.010	0.0083
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.066	J	0.0017	J
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.26	J	0.0074	J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.29	0.19	J	0.0078
<i>Other Parameters</i>						
Moisture	%	4.32%	4.33%	8.09%	14.5%	

Notes:

(a) Identified as sample "GEO-607-8" on sample custody documentation.

Values shown are dry-weight concentrations.

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinseate blanks.

Table 4-3

Summary of Ground Water Screening Analytical Results

Gulf States Creosoting Site Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-42/GW	GEO-54/GW	GEO-57/GW	GEO-58/GW
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	7220	1130	ND (0.78)	ND (0.78)
Acenaphthylene	208-96-8	µg/L	144	ND (0.86)	ND (0.78)	ND (0.78)
Acenaphthene	83-32-9	µg/L	170	19	ND (0.78)	2.2 J
Fluorene	86-73-7	µg/L	75.8	7.7	ND (0.17)	1.0
Phenanthrene	85-01-8	µg/L	37.2	3.25	ND (0.068)	0.108 J
Anthracene	120-12-7	µg/L	4.9	ND (0.032)	U*	ND (0.029)
Fluoranthene	206-44-0	µg/L	0.88	J	0.068 J	ND (0.029)
Pyrene	129-00-0	µg/L	ND (1.6)	ND (0.18)	ND (0.17)	ND (0.17)
Benz(a)anthracene	56-55-3	µg/L	ND (0.19)	ND (0.021)	ND (0.02)	ND (0.02)
Chrysene	218-01-9	µg/L	ND (0.57)	U*	ND (0.064)	ND (0.059)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.36)	ND (0.041)	ND (0.037)	ND (0.037)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.095)	ND (0.011)	ND (0.0098)	ND (0.0098)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.19)	ND (0.021)	ND (0.02)	ND (0.02)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.28)	ND (0.032)	ND (0.029)	ND (0.029)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.95)	ND (0.11)	ND (0.098)	ND (0.098)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.64)	ND (0.072)	ND (0.065)	ND (0.066)

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ND denotes not detected at reporting unit shown.

[] data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

Table 4-4

**Summary of Ground Water Analytical Results
Monitoring Wells**

**Gulf States Crossotting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	MW-1R	MW-1R Duplicate ^(a)	MW-2R	MW-4	MW-4 Duplicate ^(b)
<i>Poly cyclic Aromatic Hydrocarbons (PAHs)</i>							
Naphthalene	91-20-3	µg/L	150	149	11600	105	101
Acenaphthylene	208-96-8	µg/L	10.5	10.8	ND (0.82)	ND (0.76)	ND (0.76)
Acenaphthene	83-32-9	µg/L	22	22	ND (0.82)	ND (0.76)	ND (0.76)
Fluorene	86-73-7	µg/L	20.3	19.6	182	0.23	J
Phenanthrene	85-01-8	µg/L	38.2	37.1	278	0.66	0.62
Anthracene	120-12-7	µg/L	19.0	18.4	51.6	ND (0.031)	ND (0.029)
Fluoranthene	206-44-0	µg/L	25.9	26.2	46.5	ND (0.031)	ND (0.029)
Pyrene	129-00-0	µg/L	16.1	16.1	36	ND (0.17)	ND (0.16)
Benz(a)anthracene	56-55-3	µg/L	0.934	0.939	4.7	ND (0.020)	ND (0.019)
Chrysene	218-01-9	µg/L	0.54	0.53	ND (1.1)	U*	ND (0.061)
Benzo(b)fluoranthene	205-99-2	µg/L	0.115	0.114	1.3	ND (0.039)	ND (0.036)
Benzo(k)fluoranthene	207-08-9	µg/L	0.069	0.062	0.79	J	ND (0.010)
Benzo(a)pyrene	50-32-8	µg/L	0.103	0.087	1.5	ND (0.020)	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.029)	ND (0.57)	ND (0.031)	ND (0.029)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.097)	ND (0.097)	ND (1.9)	ND (0.10)	ND (0.095)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.065)	ND (0.065)	ND (1.3)	ND (0.068)	ND (0.064)

Notes:

(a) Identified as sample "MW-3R" on sample custody documentation.

(b) Identified as sample "MW-4I" on sample custody documentation.

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-4
(Continued)

Summary of Ground Water Analytical Results
Monitoring Wells

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	MW-01	MW-03	MW-04	MW-05
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	ND (0.77)	ND (0.76)	ND (0.76)	ND (0.78)
Acenaphthylene	208-96-8	µg/L	ND (0.77)	ND (0.76)	ND (0.76)	ND (0.78)
Acenaphthene	83-32-9	µg/L	ND (0.77)	ND (0.76)	ND (0.76)	ND (0.78)
Fluorene	86-73-7	µg/L	ND (0.16)	0.88	ND (0.16)	ND (0.17)
Phenanthrene	85-01-8	µg/L	ND (0.067)	1.59	ND (0.066)	ND (0.068)
Anthracene	120-12-7	µg/L	ND (0.029)	U*	0.41	ND (0.028)
Fluoranthene	206-44-0	µg/L	ND (0.029)	0.38	ND (0.028)	ND (0.029)
Pyrene	129-00-0	µg/L	ND (0.16)	0.17	ND (0.16)	ND (0.17)
Benz(a)anthracene	56-55-3	µg/L	ND (0.019)	0.391	ND (0.019)	ND (0.019)
Chrysene	218-01-9	µg/L	ND (0.057)	ND (0.057)	U*	ND (0.057)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.037)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.0096)	ND (0.0096)	ND (0.0095)	ND (0.0097)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.029)	ND (0.028)	ND (0.029)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.096)	ND (0.096)	ND (0.095)	ND (0.097)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.064)	ND (0.064)	ND (0.064)	ND (0.065)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinseate blanks.

Table 4-4
(Continued)

Summary of Ground Water Analytical Results
Monitoring Wells

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	MW-06	MW-07	MW-08	MW-09
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	9950	ND (0.77)	ND (0.78)	2390
Acenaphthylene	208-96-8	µg/L	350	ND (0.77)	ND (0.78)	200
Acenaphthene	83-32-9	µg/L	220	ND (0.77)	ND (0.78)	280
Fluorene	86-73-7	µg/L	138	ND (0.16)	ND (0.16)	147
Phenanthrene	85-01-8	µg/L	105	ND (0.067)	ND (0.068)	109
Anthracene	120-12-7	µg/L	13.1	ND (0.029)	ND (0.029)	18.0
Fluoranthene	206-44-0	µg/L	3.19	J	ND (0.029)	10.1
Pyrene	129-00-0	µg/L	ND (3.3)	ND (0.16)	ND (0.16)	5.3
Benz(a)anthracene	56-55-3	µg/L	ND (0.39)	ND (0.019)	ND (0.019)	ND (0.40)
Chrysene	218-01-9	µg/L	ND (1.2)	ND (0.058)	ND (0.058)	ND (1.2)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.74)	ND (0.037)	ND (0.037)	ND (0.75)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.19)	ND (0.0096)	ND (0.0097)	ND (0.20)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.39)	ND (0.019)	ND (0.019)	ND (0.40)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.58)	ND (0.029)	ND (0.029)	ND (0.59)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (1.9)	ND (0.096)	ND (0.097)	ND (2.0)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (1.3)	ND (0.064)	ND (0.065)	ND (1.3)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinseate blanks.

Table 4-4
(Continued)

Summary of Ground Water Analytical Results
Monitoring Wells

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	MW-10	MW-11	MW-12	MW-13
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	ND (0.79)	ND (0.77)	3460	ND (0.77)
Acenaphthylene	208-96-8	µg/L	ND (0.79)	ND (0.77)	180	ND (0.77)
Acenaphthene	83-32-9	µg/L	ND (0.79)	ND (0.77)	67	ND (0.77)
Fluorene	86-73-7	µg/L	ND (0.17)	ND (0.16)	36.2	ND (0.16)
Phenanthrene	85-01-8	µg/L	ND (0.069)	ND (0.067)	22.7	ND (0.067)
Anthracene	120-12-7	µg/L	ND (0.029)	ND (0.029)	3.06	ND (0.029)
Fluoranthene	206-44-0	µg/L	ND (0.029)	ND (0.029)	0.45	ND (0.029)
Pyrene	129-00-0	µg/L	ND (0.17)	ND (0.16)	0.23	J ND (0.16)
Benz(a)anthracene	56-55-3	µg/L	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)
Chrysene	218-01-9	µg/L	ND (0.059)	U*	ND (0.058)	ND (0.058)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.0098)	ND (0.0096)	ND (0.0097)	ND (0.0096)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.020)	ND (0.019)	ND (0.019)	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
Benzog(h,i)perylene	191-24-2	µg/L	ND (0.098)	ND (0.096)	ND (0.097)	ND (0.096)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.066)	ND (0.064)	ND (0.065)	ND (0.065)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-5

Summary of Ground Water Screening Analytical Results
Offsite Area

**Gulf States Creosoting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	GEO-34/GW	GEO-35/GW	GEO-36/GW	GEO-37/GW
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	ND (0.77)	ND (0.83)	403	1.23 J
Acenaphthylene	208-96-8	µg/L	ND (0.77)	ND (0.83)	50.4 J	5.64 J
Acenaphthene	83-32-9	µg/L	ND (0.77)	ND (0.83)	90	ND (0.77)
Fluorene	86-73-7	µg/L	ND (0.16)	ND (0.18)	178	0.33 J
Phenanthrene	85-01-8	µg/L	ND (0.067)	ND (0.072)	200	0.35
Anthracene	120-12-7	µg/L	ND (0.029)	ND (0.031)	38.3	ND (0.029)
Fluoranthene	206-44-0	µg/L	ND (0.029)	ND (0.031)	30.8	0.49
Pyrene	129-00-0	µg/L	ND (0.16)	ND (0.18)	23.8	0.57 J
Benz(a)anthracene	56-55-3	µg/L	ND (0.019)	ND (0.021)	0.94	ND (0.019)
Chrysene	218-01-9	µg/L	ND (0.057)	ND (0.062)	ND (0.58)	U*
Benz(b)fluoranthene	205-99-2	µg/L	ND (0.036)	ND (0.039)	ND (0.37)	ND (0.037)
Benz(k)fluoranthene	207-08-9	µg/L	ND (0.0096)	ND (0.01)	ND (0.096)	ND (0.0096)
Benz(a)pyrene	50-32-8	µg/L	ND (0.019)	ND (0.021)	ND (0.19)	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.031)	ND (0.29)	ND (0.029)
Benz(g,h,i)perylene	191-24-2	µg/L	ND (0.096)	ND (0.10)	ND (1.0)	ND (0.096)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.064)	ND (0.069)	ND (0.64)	ND (0.064)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-5
(Continued)

Summary of Ground Water Screening Analytical Results
Offsite Area

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-38/GW	GEO-38/GW duplicate ^(a)	GEO-39/GW	GEO-40/GW
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	ND (0.77)	7.61	J	ND (0.77)
Aceanaphthylene	208-96-8	µg/L	ND (0.77)	ND (0.77)	U*	ND (0.77)
Aceanaphthene	83-32-9	µg/L	ND (0.77)	3.9	J	ND (0.77)
Fluorene	86-73-7	µg/L	ND (0.16)	3.57	J	ND (0.16)
Phenanthrene	85-01-8	µg/L	ND (0.067)	4.83	J	ND (0.067)
Anthracene	120-12-7	µg/L	ND (0.029)	ND (0.029)	U*	ND (0.029)
Fluoranthene	206-44-0	µg/L	ND (0.029)	0.69	J	0.076
Pyrene	129-00-0	µg/L	ND (0.16)	0.46	J	ND (0.16)
Benz(a)anthracene	56-55-3	µg/L	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.029)
Chrysene	218-01-9	µg/L	ND (0.057)	ND (0.058)	U*	ND (0.058)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.036)	ND (0.037)	ND (0.037)	ND (0.037)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.0096)	ND (0.0096)	ND (0.0096)	ND (0.0097)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.096)	ND (0.096)	ND (0.096)	ND (0.096)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.064)	ND (0.064)	ND (0.064)	ND (0.064)

Notes:

(a) Identified as sample "GEO-59/GW" on sample custody documentation.

ND denotes "not detected" at reporting limit shown in parentheses.
J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.
U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-5
(Continued)

Summary of Ground Water Screening Analytical Results
Offsite Area

**Gulf States Creosoting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	GEO-41/GW	GEO-49/GW	GEO-50/GW	GEO-51/GW
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	ND (0.80)	ND (0.84)	3.14	J ND (0.77)
Acenaphthylene	208-96-8	µg/L	ND (0.80)	ND (0.84)	ND (0.77)	ND (0.77)
Acenaphthene	83-32-9	µg/L	ND (0.80)	ND (0.84)	ND (0.77)	ND (0.77)
Fluorene	86-73-7	µg/L	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.16)
Phenanthrene	85-01-8	µg/L	ND (0.070)	0.37	ND (0.067)	ND (0.068)
Anthracene	120-12-7	µg/L	ND (0.03)	U*	ND (0.032)	ND (0.029)
Fluoranthene	206-44-0	µg/L	0.048	J	0.22	ND (0.029)
Pyrene	129-00-0	µg/L	ND (0.17)	0.38	J	ND (0.16)
Benz(a)anthracene	56-55-3	µg/L	0.032	J	0.076	J ND (0.019)
Chrysene	218-01-9	µg/L	ND (0.060)	ND (0.063)	ND (0.058)	ND (0.058)
Benzo(b)fluoranthene	205-99-2	µg/L	0.111	0.050	J	ND (0.037)
Benzo(k)fluoranthene	207-08-9	µg/L	0.05	J	0.030	J ND (0.0096)
Benzo(a)pyrene	50-32-8	µg/L	0.089	0.056	J	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.030)	ND (0.032)	ND (0.029)	ND (0.029)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.10)	ND (0.11)	ND (0.096)	ND (0.096)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	0.080	J	ND (0.071)	ND (0.064)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-5
(Continued)

**Summary of Ground Water Screening Analytical Results
Offsite Area**

**Gulf States Creosoting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	GEO-52/GW	GEO-53/GW	GEO-56/GW	GEO-56/GW Duplicate ^(a)
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	µg/L	55.2	10.8	ND (0.85)	ND (0.79)
Acenaphthylene	208-96-8	µg/L	ND (0.78)	ND (0.80)	ND (0.85)	ND (0.79)
Acenaphthene	83-32-9	µg/L	1.0	J	ND (0.80)	ND (0.79)
Fluorene	86-73-7	µg/L	0.44	J	ND (0.17)	ND (0.18)
Phenanthrene	85-01-8	µg/L	0.198	J	ND (0.070)	ND (0.075)
Anthracene	120-12-7	µg/L	ND (0.029)	U*	ND (0.030)	ND (0.032)
Fluoranthene	206-44-0	µg/L	ND (0.029)	0.044	J	ND (0.032)
Pyrene	129-00-0	µg/L	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
Benz(a)anthracene	56-55-3	µg/L	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.020)
Chrysene	218-01-9	µg/L	ND (0.059)	ND (0.060)	ND (0.064)	ND (0.059)
Benzo(b)fluoranthene	205-99-2	µg/L	ND (0.037)	ND (0.038)	ND -0.04	ND (0.038)
Benzo(k)fluoranthene	207-08-9	µg/L	ND (0.0098)	ND (0.010)	ND (0.011)	ND (0.0099)
Benzo(a)pyrene	50-32-8	µg/L	ND (0.020)	ND (0.020)	ND (0.021)	ND (0.020)
Dibenz(a,h)anthracene	53-70-3	µg/L	ND (0.029)	ND (0.030)	ND (0.032)	ND (0.030)
Benzo(g,h,i)perylene	191-24-2	µg/L	ND (0.098)	ND (0.10)	ND (0.11)	ND (0.099)
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	ND (0.066)	ND (0.067)	ND (0.071)	ND (0.066)

Notes:

(a) Identified as sample "GEO-33/GW" on sample custody documentation.

ND denotes "not detected" at reporting limit shown in parentheses.
J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.
U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-6

Summary of Sediment Analytical Results
Oude Ditches

**Gulf States Creosoting Site
Hattiesburg, Mississippi**

Analytical Parameter	CAS Number	Units	SD-18		SD-19		SD-20		SD-21		SD-22		SD-23	
			SD-18	SD-19	SD-20	SD-21	SD-22	SD-23	SD-21	SD-22	SD-23	SD-21	SD-22	SD-23
Polyyclic Aromatic Hydrocarbons (PAHs)														
Naphthalene	91-20-3	mg/kg	ND (4.9)	ND (3.9)	ND (4.5)	ND (0.57)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.3)
Acenaphthylene	208-96-8	mg/kg	ND (4.9)	ND (3.9)	ND (4.5)	ND (0.57)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.3)
Acenaphthene	83-32-9	mg/kg	ND (4.9)	ND (3.9)	ND (4.5)	ND (0.57)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.3)
Fluorene	86-73-7	mg/kg	ND (0.45)	ND (0.36)	ND (0.41)	ND (0.053)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Phenanthrene	85-01-8	mg/kg	ND (0.18)	U*	ND (0.14)	U*	ND (0.17)	U*	ND (0.12)	U*	ND (0.12)	U*	ND (0.12)	U*
Anthracene	120-12-7	mg/kg	4.08	ND (0.071)	ND (0.083)	U*	ND (0.011)	U*	ND (0.06)	U*	ND (0.06)	U*	ND (0.06)	U*
Fluoranthene	206-44-0	mg/kg	7.09	4.73	2.19	0.260	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Pyrene	129-00-0	mg/kg	9.10	6.40	3.54	J	0.459	J	2.14	J	2.14	J	2.14	J
Benz(a)anthracene	56-55-3	mg/kg	2.56	1.56	1.23	0.229	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Chrysene	218-01-9	mg/kg	2.60	1.53	J	1.39	J	0.25	0.82	J	0.82	J	0.82	J
Benz(b)fluoranthene	205-99-2	mg/kg	4.78	4.65	2.36	0.425	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Benz(k)fluoranthene	207-08-9	mg/kg	2.27	2.05	1.18	0.213	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Benz(a)pyrene	50-32-8	mg/kg	3.10	2.43	1.71	0.280	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.587	J	0.528	J	0.057	J	ND (0.06)	J	ND (0.06)	J	ND (0.06)	J
Benzo(g,h)perylene	191-24-2	mg/kg	1.64	J	1.94	J	1.02	J	0.173	J	0.48	J	0.48	J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	2.30	2.40	1.54	J	0.223	J	0.70	J	0.70	J	0.70	J
<i>Other Parameters</i>														
Moisture	%	44.7%	29.9%	39.5%	5.88%	16.0%	19.3%	19.3%	19.3%	19.3%	19.3%	19.3%	19.3%	19.3%

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 4-7

Summary of Sediment Analytical Results
Northeast Drainage Ditch
Gulf States Creeoding Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Unit	SD-12	SD-12 Duplicate ^(a)	SD-13	SD-14	SD-15	SD-16	SD-17
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>									
Naphthalene	91-20-3	mg/kg	ND (180)	ND (190)	ND (180)	ND (2.90)	ND (3.50)	ND (3.30)	ND (3.50)
Acenaphthylene	208-96-8	mg/kg	ND (180)	ND (190)	ND (180)	ND (2.90)	ND (3.50)	ND (3.30)	ND (3.50)
Acenaphthene	83-32-9	mg/kg	320 J	370 J	ND (180)	3.90 J	ND (3.50)	ND (3.30)	ND (3.50)
Fluorene	86-73-7	mg/kg	580	710	0.78 J	0.65 J	ND (0.32)	2.80 J	ND (0.33)
Phenanthrene	85-01-8	mg/kg	1820	2110	2.27	ND (0.11) U*	ND (0.13) U*	4.50	ND (0.13) U*
Anthracene	120-12-7	mg/kg	1110	1490	3.47	9.91	1.48	23.9	ND (0.065) U*
Fluoranthene	206-44-0	mg/kg	922	1030	6.52	22.9	1.22	12.0	0.92
Pyrene	129-00-0	mg/kg	900	970	8.4	30.8	2.77 J	12.9	2.28 J
Benz(a)anthracene	56-55-3	mg/kg	168	184	2.91	11.8	1.02	3.61	0.94
Chrysene	218-01-9	mg/kg	129	134	2.97	19.6	ND (0.13) U*	3.0	ND (0.13) U*
Benz(b)fluoranthene	205-99-2	mg/kg	60.0	67.0	4.17	14.2	2.88	3.03	2.50
Benz(d)fluoranthene	207-08-9	mg/kg	35.0	39.0	2.08	7.85	1.39	1.60	1.26
Benz(a)pyrene	50-32-8	mg/kg	69.0	73.0	3.27	12.2	2.42	2.80	2.26
Dibenz(a,h)anthracene	53-70-3	mg/kg	6.50 J	11.6 J	0.48	1.61	0.374 J	0.384 J	0.365 J
Benz(g,h)perylene	191-24-2	mg/kg	14.0 J	15.0 J	2.00	4.40	1.38 J	1.05 J	1.21 J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	28.1 J	30.3 J	2.53	7.30	2.00	1.60	1.60
<i>Other Parameters</i>									
Moisture	%	26.5%	29.9%	24.7%	8.39%	21.8%	18.5%	23.1%	

Notes:

(a) Identified as sample "SD-99" or sample custody documentation.
 ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.
 J data validation qualifier denotes estimated value.

B data validation qualifier denotes constituent was detected in corresponding laboratory blank.

U* data validation qualifier denotes originally reported positive result that should be considered "not detected" due to trace-level presence of the analyte in associated laboratory method blanks and/or rinsate blanks.

Table 3-1

Summary of Soil Analytical Results

Gulf States Crossotting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-61/0-1'	GEO-61/2-3'	GEO-61/5-6'	GEO-62/0-1'	GEO-62/2-3'	GEO-62/5-6'
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>								
Naphthalene	91-20-3	mg/kg	ND (0.31)	ND (0.32)	ND (0.31)	ND (0.16)	ND (0.033)	ND (0.032)
Aceanaphthylene	208-96-8	mg/kg	ND (0.31)	ND (0.32)	ND (0.31)	ND (0.16)	ND (0.033)	ND (0.032)
Aceanaphthene	83-32-9	mg/kg	ND (0.31)	ND (0.32)	ND (0.31)	ND (0.16)	ND (0.033)	ND (0.032)
Fluorene	86-73-7	mg/kg	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.015)	ND (0.003)	ND (0.003)
Phenanthrene	85-01-8	mg/kg	0.019	J	0.0028	J	0.014	J
Anthracene	120-12-7	mg/kg	0.0075	J	0.0014	J	0.00061	ND (0.00061)
Fluoranthene	206-44-0	mg/kg	0.05	J	0.0011	J	ND (0.00058)	0.021
Pyrene	129-00-0	mg/kg	0.075	J	0.0031	J	0.0043	J
Benzo(a)anthracene	56-55-3	mg/kg	0.021	J	ND (0.00029)	ND (0.00029)	0.01	J
Chrysene	218-01-9	mg/kg	0.024	J	ND (0.0012)	ND (0.0012)	0.025	J
Benzo(b)fluoranthene	205-99-2	mg/kg	0.045	ND (0.00024)	ND (0.00023)	ND (0.00024)	0.016	ND (0.00024)
Benzo(k)fluoranthene	207-08-9	mg/kg	0.021	J	0.00026	J	0.0004	J
Benzo(a)pyrene	50-32-8	mg/kg	0.029	J	ND (0.00029)	ND (0.00029)	0.012	J
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0086	J	ND (0.00059)	ND (0.00058)	ND (0.0003)	ND (0.00061)
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.034	J	ND (0.0018)	ND (0.0017)	0.0098	J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.032	J	ND (0.0012)	ND (0.0012)	0.0077	J
<i>Other Parameters</i>								
Moisture	%	13.5%	15.2%	13.7%	17.9%	17.7%	17.7%	15.6%

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

Table 3.1
(Continued)

Summary of Soil Analytical Results

**Gulf States Crestodot Site
Battiesburg, Mississippi**

<u>Analytical Parameter</u>	<u>CAS Number</u>	<u>Units</u>	<u>GEO-62/6.7'</u>	<u>GEO-63/2.3'</u>	<u>GEO-63/5.6'</u>	<u>GEO-64/0.1'</u>	<u>GEO-64/2.3'</u>	<u>GEO-64/5.6'</u>
			<u>GEO-62/6.7'</u>	<u>GEO-63/2.3'</u>	<u>GEO-63/5.6'</u>	<u>GEO-64/0.1'</u>	<u>GEO-64/2.3'</u>	<u>GEO-64/5.6'</u>
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>								
Naphthalene	91-20-3	mg/kg	ND (0.032)	ND (0.033)	ND (0.033)	0.18	J	0.76
Acenaphthylene	208-96-8	mg/kg	ND (0.032)	ND (0.033)	ND (0.033)	ND (0.150)	ND (0.310)	ND (0.160)
Acenaphthene	83-32-9	mg/kg	ND (0.032)	ND (0.033)	ND (0.033)	ND (0.150)	ND (0.310)	ND (0.160)
Fluorene	86-73-7	mg/kg	ND (0.003)	ND (0.003)	ND (0.0031)	0.077	J	0.15
Phenanthrene	85-01-8	mg/kg	ND (0.0012)	ND (0.0012)	0.0016	J	0.23	1.1
Anthracene	120-12-7	mg/kg	ND (0.0006)	ND (0.0006)	ND (0.00062)	0.027	J	0.27
Fluoranthene	206-44-0	mg/kg	ND (0.0006)	ND (0.0006)	ND (0.00062)	0.1	J	1.5
Pyrene	129-00-0	mg/kg	ND (0.003)	0.0042	J	0.085	J	1.5
Benz(a)anthracene	56-55-3	mg/kg	ND (0.0003)	ND (0.0003)	ND (0.00031)	0.03	J	0.67
Chrysene	218-01-9	mg/kg	ND (0.0012)	ND (0.0012)	ND (0.0012)	0.053	J	0.6
Benz(b)fluoranthene	205-99-2	mg/kg	ND (0.00024)	ND (0.00024)	ND (0.00025)	0.019	J	0.59
Benz(k)fluoranthene	207-08-9	mg/kg	ND (0.00024)	0.00046	J	ND (0.00025)	0.012	0.31
Benz(a)pyrene	50-32-8	mg/kg	ND (0.0003)	ND (0.0003)	ND (0.00031)	0.027	J	0.7
Dibenz(a,h)anthracene	53-70-3	mg/kg	ND (0.0006)	ND (0.00062)	ND (0.00062)	0.011	J	0.11
Benz(g,h,i)perylene	191-24-2	mg/kg	ND (0.0018)	ND (0.0018)	ND (0.0018)	0.02	J	0.42
Indeno(1,2,3-cd)pyrene	192-39-5	mg/kg	ND (0.0012)	ND (0.0012)	ND (0.0012)	0.016	J	0.49
<i>Other Parameters</i>								
Moisture	%	16.8%	17.2%	18.7%	12.0%	13.6%	17.1%	

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

Table 3-1
(Continued)

Summary of Soil Analytical Results

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-65/0-1'	GEO-65/2-3'	GEO-65/5-6'	GEO-67/2.5-3.5'	GEO-67/8.9'
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>							
Naphthalene	91-20-3	mg/kg	0.19	J	0.49	ND (0.033)	160
Acenaphthylene	208-96-8	mg/kg	ND (0.170)		0.047	ND (0.033)	53
Acenaphthene	83-32-9	mg/kg	ND (0.170)		0.36	ND (0.033)	32
Fluorene	86-73-7	mg/kg	0.08	J	0.41	ND (0.003)	31
Phenanthrene	85-01-8	mg/kg	0.27		1.7	0.0094	J
Anthracene	120-12-7	mg/kg	0.034		0.26	0.0011	J
Fluoranthene	206-44-0	mg/kg	0.15		0.93	0.0051	J
Pyrene	129-00-0	mg/kg	0.14	J	0.69	0.0093	J
Benzo(a)anthracene	56-55-3	mg/kg	0.033		0.16	0.0016	J
Chrysene	218-01-9	mg/kg	0.029	J	0.12	0.0042	J
Benzo(b)fluoranthene	205-99-2	mg/kg	0.014		0.089	0.00086	J
Benzo(k)fluoranthene	207-08-9	mg/kg	0.0089	J	0.04	0.00084	J
Benzo(a)pyrene	50-32-8	mg/kg	0.017	J	0.079	0.0012	J
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0041	J	0.011	ND (0.00061)	J
Benzo(g,h,i)perylene	191-24-2	mg/kg	ND (0.0094)		0.021	ND (0.0018)	J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.012	J	0.031	0.0019	J
<i>Other Parameters</i>							
Moisture	%	20.1%	22.4%		17.7%	15.7%	18.4%

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

Table 3-1
(Continued)

Summary of Soil Analytical Results

Gulf States Cresotting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-68/4.5-5.5'	GEO-68/8.9'	GEO-69/4.5-5.5'	GEO-69/8.9'	GEO-69/7.8'	GEO-69/7.8' Duplicate	GEO-70/4.8'
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>									
Naphthalene	91-20-3	mg/kg	0.63	J	0.31	J	1700	45	J
Acenaphthylene	208-96-8	mg/kg	0.29	J	0.046	J	ND (130)	ND (6.5)	ND (16)
Acenaphthene	83-32-9	mg/kg	0.046	J	ND (0.033)	J	700	J	16
Fluorene	86-73-7	mg/kg	0.12		0.048		720	J	17
Phenanthrene	85-01-8	mg/kg	0.64		0.17		1900	55	58
Anthracene	120-12-7	mg/kg	0.033		0.0093		640	11	12
Fluoranthene	206-44-0	mg/kg	0.43		0.034		1000	25	28
Pyrene	129-00-0	mg/kg	0.21		0.029	J	950	22	27
Benz(a)anthracene	56-55-3	mg/kg	0.051		0.0054		220	5.2	5.9
Chrysene	218-01-9	mg/kg	0.053		0.0065	J	180	4.6	3.8
Benz(b)fluoranthene	205-99-2	mg/kg	0.023		0.0086		95	1.8	2.1
Benz(k)fluoranthene	207-08-9	mg/kg	0.013		0.0041		56	1.1	1.3
Benz(a)pyrene	50-32-8	mg/kg	0.016		0.0067		100	2	2.3
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0015	J	0.001	J	14	J	0.19
Benz(g,h,i)perylene	191-24-2	mg/kg	0.0051	J	0.0033	J	24	J	ND (0.36)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.0074	J	0.0037	J	43	J	0.35
<i>Other Parameters</i>									
Moisture	%	24.4%	18.9%	18.1%	16.9%	16.0%	16.0%	22.5%	

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

Table 3-2

Summary of Ground Water Analytical Results

Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	GEO-66/GW	GEO-68A/GW
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>				
Naphthalene	91-20-3	ug/l	1.16	J ND (0.76)
Acenaphthylene	208-96-8	ug/l	ND (0.76)	ND (0.76)
Acenaphthene	83-32-9	ug/l	3.1	J ND (0.76)
Fluorene	86-73-7	ug/l	1.3	ND (0.16)
Phenanthrene	85-01-8	ug/l	1.52	ND (0.066)
Anthracene	120-12-7	ug/l	0.32	ND (0.028)
Fluoranthene	206-44-0	ug/l	1.25	ND (0.028)
Pyrene	129-00-0	ug/l	1.03	ND (0.16)
Benzo(a)anthracene	56-55-3	ug/l	0.091	ND (0.019)
Chrysene	218-01-9	ug/l	0.091	J ND (0.057)
Benzo(b)fluoranthene	205-99-2	ug/l	0.088	ND (0.036)
Benzo(k)fluoranthene	207-08-9	ug/l	0.0474	J ND (0.0095)
Benzo(a)pyrene	50-32-8	ug/l	0.103	ND (0.019)
Dibenz(a,h)anthracene	53-70-3	ug/l	ND (0.029)	ND (0.028)
Benzo(g,h,i)perylene	191-24-2	ug/l	ND (0.095)	ND (0.095)
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	0.068	J ND (0.064)

Notes:

ND denotes "not detected" at reporting limit shown in parentheses.

Values shown are dry-weight concentrations.

J data validation qualifier denotes estimated value.

Table 1

Summary of July 2001 Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

<u>Analytical Parameter</u>	<u>CAS Number</u>	<u>Units</u>	<u>Tier 1 (unrestricted use)</u>	<u>GEO-61A/8-10'</u>	<u>GEO-61A/12-14'</u>	<u>GEO-61A/16-18'</u>
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	mg/kg	194	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthylene	208-96-8	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthene	83-32-9	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Fluorene	86-73-7	mg/kg	3,130	ND (0.030)	ND (0.030)	ND (0.030)
Phenanthrene	85-01-8	mg/kg	2,350	ND (0.012)	ND (0.013)	ND (0.014)
Anthracene	120-12-7	mg/kg	23,500	ND (0.0057)	ND (0.006)	ND (0.0062)
Fluoranthene	206-44-0	mg/kg	3,130	ND (0.0037)	ND (0.006)	ND (0.0062)
Pyrene	129-00-0	mg/kg	2,350	ND (0.030)	ND (0.030)	ND (0.030)
Benz(a)anthracene	56-55-3	mg/kg	0.875	ND (0.003)	ND (0.004)	ND (0.004)
Chrysene	218-01-9	mg/kg	87.5	ND (0.012)	ND (0.013)	ND (0.014)
Benzo(b)fluoranthene	205-99-2	mg/kg	0.875	ND (0.0023)	ND (0.0024)	ND (0.0025)
Benzo(k)fluoranthene	207-08-9	mg/kg	8.75	ND (0.0023)	ND (0.0024)	ND (0.0025)
Benzo(a)pyrene	50-32-8	mg/kg	0.0875	ND (0.003)	ND (0.004)	ND (0.004)
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0875	ND (0.006)	ND (0.006)	ND (0.006)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.875	ND (0.012)	ND (0.013)	ND (0.014)
Benzo(g,h,i)perylene	191-24-2	mg/kg	2,350	ND (0.018)	ND (0.019)	ND (0.020)
<i>Other Parameters</i>						
Moisture		%		11.8%	16.9%	19.2%

Notes:

ND denotes constituent not detected at laboratory limit of quantitation shown in parentheses.

Values shown are dry-weight concentrations.

Table 1

Summary of July 2001 Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	Tier 1 TRG	GEO-63A/8-10'	GEO-63A/12-14'	GEO-63A/16-18'
			(unrestricted use)			
<i>Polyyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	mg/kg	194	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthylene	208-96-8	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthene	83-32-9	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Fluorene	86-73-7	mg/kg	3,130	ND (0.030)	ND (0.030)	ND (0.030)
Phenanthrene	85-01-8	mg/kg	2,350	ND (0.013)	ND (0.013)	ND (0.013)
Anthracene	120-12-7	mg/kg	23,500	0.010	ND (0.0059)	ND (0.006)
Fluoranthene	206-44-0	mg/kg	3,130	ND (0.006)	ND (0.0059)	ND (0.006)
Pyrene	129-00-0	mg/kg	2,350	ND (0.030)	ND (0.030)	ND (0.030)
Benz(a)anthracene	56-55-3	mg/kg	0.875	ND (0.004)	ND (0.004)	ND (0.004)
Chrysene	218-01-9	mg/kg	87.5	ND (0.013)	ND (0.013)	ND (0.013)
Benz(b)fluoranthene	205-99-2	mg/kg	0.875	ND (0.0024)	ND (0.0024)	ND (0.0024)
Benz(k)fluoranthene	207-08-9	mg/kg	8.75	ND (0.0024)	ND (0.0024)	ND (0.0024)
Benz(a)pyrene	50-32-8	mg/kg	0.0875	ND (0.004)	ND (0.004)	ND (0.004)
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0875	ND (0.006)	ND (0.006)	ND (0.006)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.875	ND (0.013)	ND (0.013)	ND (0.013)
Benzo(g,h,i)perylene	191-24-2	mg/kg	2,350	ND (0.019)	ND (0.019)	ND (0.019)
<i>Other Parameters</i>						
Moisture		%		17.2%	15.1%	16.4%

Notes:

ND denotes constituent not detected at laboratory limit of quantitation shown in parentheses.
 Values shown are dry-weight concentrations.

Table 1

Summary of July 2001 Soil Analytical Results

Former Gulf States Creosoting Site
Hattiesburg, Mississippi

Analytical Parameter	CAS Number	Units	Tier 1 TRG (unrestricted use)	GEO-86/8-10'	GEO-86/12-14'	GEO-86/16-18'
<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>						
Naphthalene	91-20-3	mg/kg	194	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthylene	208-96-8	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Acenaphthene	83-32-9	mg/kg	4,690	ND (0.300)	ND (0.300)	ND (0.300)
Fluorene	86-73-7	mg/kg	3,130	ND (0.030)	ND (0.030)	ND (0.030)
Phenanthrene	85-01-8	mg/kg	2,350	ND (0.013)	ND (0.013)	ND (0.013)
Anthracene	120-12-7	mg/kg	23,500	ND (0.00059)	ND (0.00058)	ND (0.00059)
Fluoranthene	206-44-0	mg/kg	3,130	ND (0.00059)	ND (0.00058)	ND (0.00059)
Pyrene	129-00-0	mg/kg	2,350	ND (0.030)	ND (0.030)	ND (0.030)
Benz(a)anthracene	56-55-3	mg/kg	0.875	ND (0.004)	ND (0.004)	ND (0.004)
Chrysene	218-01-9	mg/kg	87.5	ND (0.013)	ND (0.013)	ND (0.013)
Benzo(b)fluoranthene	205-99-2	mg/kg	0.875	ND (0.0024)	ND (0.0023)	ND (0.0023)
Benzo(k)fluoranthene	207-08-9	mg/kg	8.75	ND (0.0024)	ND (0.0023)	ND (0.0023)
Benzo(a)pyrene	50-32-8	mg/kg	0.0875	ND (0.004)	ND (0.004)	ND (0.004)
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.0875	ND (0.006)	ND (0.006)	ND (0.006)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.875	ND (0.013)	ND (0.013)	ND (0.013)
Benzo(g,h,i)perylene	191-24-2	mg/kg	2,350	ND (0.019)	ND (0.019)	ND (0.019)
<i>Other Parameters</i>						
Moisture		%			14.5%	14.8%

Notes:

ND denotes constituent not detected at laboratory limit of quantitation shown in parentheses.
 Values shown are dry-weight concentrations.