# Appendix B

# Phase II Remedial Investigation Data Summary Tables

# Former Gulf States Creosoting Site
# Hattiesburg, Mississippi

**Table 4-1**
**Soil Sample Data Summary**
**Phase II Remedial Investigation**

**Gulf Coast Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | Cas Registry Number | Units | Sample Identifier: GEO-03 (2' - 3') | GEO-03 (5' - 6') | GEO-03 (5' - 6') Duplicate (a) | GEO-10 (2' - 3') | GEO-10 (5' - 6') | GEO-13 (0' - 1') | GEO-13 (2' - 3') | GEO-13 (5' - 6') |
|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) 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 | ND (0.036) U | ND (0.039) 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 | ND (0.036) U | ND (0.039) 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) 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 | ND (0.072) U | ND (0.078) 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 | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND (0.21) U | ND (0.22) U | ND (0.22) U | ND (0.22) U | ND (0.22) U | ND (0.21) U | ND (0.23) U | ND (0.22) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2-methylnaphthalene | 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 | 0.07 (0.036) J | ND (0.039) U | ND (0.038) U |
| 2-methylphenol | 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 | ND (0.036) U | ND (0.039) 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) 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 | ND (0.072) U | ND (0.078) 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 | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 3-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 | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND (0.18) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.18) U | ND (0.2) U | ND (0.19) U |
| 4-bromophenyl 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 | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND (0.18) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.18) U | ND (0.2) U | ND (0.19) U |
| acenaphthene | 83-32-9 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 0.049 (0.036) J | ND (0.039) U | ND (0.038) U |
| acenaphthylene | 208-96-8 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 1.3 (0.036) | ND (0.039) U | ND (0.038) U |
| anthracene | 120-12-7 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 1.6 (0.036) | ND (0.039) 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 | 6.7 (0.18) | 0.041 (0.039) J | 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 | 5.2 (0.18) | ND (0.039) 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 | 0.4 (0.038) | 0.39 (0.038) | 9.2 (0.18) | 0.45 (0.039) | ND (0.038) U |
| benzo (ghi) perylene | 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 | 2.3 (0.036) | ND (0.039) 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 | 0.33 (0.038) J | 0.33 (0.038) J | 3.6 (0.036) | 0.85 (0.039) J | ND (0.038) U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| bis (2-chloroethyl) ether | 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 | ND (0.036) U | ND (0.039) 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 | ND (0.072) U | ND (0.078) U | 0.37 (0.076) J (d) |
| 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 | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| carbazole | 86-74-8 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 0.35 (0.036) J | ND (0.039) U | ND (0.038) U |
| chrysene | 218-01-9 | mg/kg | ND (0.037) UJ | ND (0.037) UJ | ND (0.038) U | ND (0.038) UJ | ND (0.038) UJ | 8 (0.18) | 0.051 (0.039) J | ND (0.038) UJ |
| 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 | ND (0.072) U | ND (0.078) 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 | ND (0.072) U | ND (0.078) 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 | 0.91 (0.036) | ND (0.039) U | ND (0.038) U |
| dibenzofuran | 132-64-9 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 0.072 (0.036) J | ND (0.039) U | ND (0.038) U |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| fluoranthene | 206-44-0 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 12 (0.18) | 0.05 (0.039) J | ND (0.038) U |
| fluorene | 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 | 0.37 (0.036) | 0.33 (0.039) J | 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.073) U | ND (0.075) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND (0.18) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.18) U | ND (0.2) U | ND (0.19) U |
| hexachloroethane | 67-72-1 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 3.7 (0.036) | ND (0.039) 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| N-nitrosodiphenylamine | 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 | ND (0.036) U | ND (0.039) 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 | 0.088 (0.036) J | ND (0.039) 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 | ND (0.036) U | ND (0.039) U | ND (0.038) U |
| pentachlorophenol | 87-86-5 | mg/kg | ND (0.18) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.19) U | ND (0.18) U | ND (0.2) U | ND (0.19) 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 | 0.74 (0.036) | ND (0.039) U | ND (0.038) U |
| phenol | 108-95-2 | mg/kg | ND (0.073) U | 0.19 (0.075) J | 0.26 (0.075) J | ND (0.076) U | 0.11 (0.076) J | ND (0.072) U | ND (0.078) U | ND (0.076) U |
| pyrene | 129-00-0 | mg/kg | ND (0.037) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.038) U | 14 (0.18) | 0.068 (0.039) J | ND (0.038) U |
| *Other Parameters* | | | | | | | | | | |
| Moisture Content (c) | N.A. | wt.% | 9.02 (0.1) | 10.8 (0.08) | 11.3 (0.08) | 11.7 (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-34/2'-3'.
(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).
(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 not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-16 (2' - 3') | GEO-16 (5' - 6') | GEO-17 (2' - 3') | GEO-17 (5' - 6') | GEO-17 (5' - 6') Duplicate (a) |
|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 1,2-dichlorobenzene | 95-50-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 1,3-dichlorobenzene | 541-73-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 1,4-dichlorobenzene | 106-46-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND (0.22) U | ND (0.23) UJ | ND (0.22) UJ | ND (0.22) UJ | ND (0.22) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 2,6-dinitrotoluene | 606-20-2 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-methylphenol | 95-48-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND (0.19) U | ND (0.2) UJ | ND (0.19) UJ | ND (0.19) UJ | ND (0.19) U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND (0.19) U | ND (0.2) U | ND (0.19) U | ND (0.19) U | ND (0.19) U |
| acenaphthene | 83-32-9 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| acenaphthylene | 208-96-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| anthracene | 120-12-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| benzo (a) anthracene | 56-55-3 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| benzo (a) pyrene | 50-32-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| bengo (b) fluoranthene | 205-99-2 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| carbazole | 86-74-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| chrysene | 218-01-9 | mg/kg | ND (0.038) UJ | ND (0.04) UJ | ND (0.037) UJ | ND (0.038) UJ | ND (0.038) U |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| di-n-octyl phthalate | 117-84-0 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| dibenzofuran | 132-64-9 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| fluoranthene | 206-44-0 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| fluorene | 86-73-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) R |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.076) U | ND (0.079) U | ND (0.075) U | ND (0.077) U | ND (0.075) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND (0.19) U | ND (0.2) U | ND (0.19) U | ND (0.19) U | ND (0.19) U |
| hexachloroethane | 67-72-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| isophorone | 78-59-1 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| naphthalene | 91-20-3 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| nitrobenzene | 98-95-3 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| pentachlorophenol | 87-86-5 | mg/kg | ND (0.19) U | ND (0.2) U | ND (0.19) U | ND (0.19) U | ND (0.19) U |
| phenanthrene | 85-01-8 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| phenol | 108-95-2 | mg/kg | ND (0.076) U | ND (0.079) U | 0.096 (0.075) J | 0.19 (0.077) J | 0.27 (0.075) J |
| pyrene | 129-00-0 | mg/kg | ND (0.038) U | ND (0.04) U | ND (0.037) U | ND (0.038) U | ND (0.038) U |
| *Other Parameters* | | | | | | | |
| Moisture Content (c) | N/A | wt.% | 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-34/5'-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 Wastes*, March 1983).
U qualifier denotes not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 | Sample Identifier: GEO-18 (2' - 3') | GEO-18 (5' - 6') | GEO-19 (0' - 1') | GEO-19 (2' - 3') | GEO-19 (5' - 6') |
|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) 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 (0.037) 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 (0.037) 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 (0.037) U | ND (0.038) U |
| 2,2-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.073) 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 (0.073) U | ND (0.075) U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND (0.076) U | ND (0.076) U | 0.25 (0.074) J | ND (0.073) 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 | ND (0.22) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.037) U | ND (0.038) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | ND (0.038) U | ND (0.038) U | 0.53 (0.037) | 0.062 (0.037) J | 0.38 (0.038) |
| 2-methylphenol | 95-48-7 | mg/kg | ND (0.038) U | ND (0.038) U | 0.073 (0.037) J | ND (0.037) U | ND (0.038) U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) 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 (0.073) 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 (0.073) U | ND (0.075) U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND (0.076) U | ND (0.076) U | 0.21 (0.074) J | ND (0.073) U | ND (0.075) U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.18) 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 (0.073) U | ND (0.075) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.18) U | ND (0.19) U |
| acenaphthene | 83-32-9 | mg/kg | ND (0.038) U | ND (0.038) U | 1 (0.037) | 0.097 (0.037) J | 1.4 (0.038) |
| acenaphthylene | 208-96-8 | mg/kg | ND (0.038) U | ND (0.038) U | 14 (0.37) | 0.69 (0.037) | 0.083 (0.038) J |
| anthracene | 120-12-7 | mg/kg | ND (0.038) U | ND (0.038) U | 25 (0.37) | 1.6 (0.037) | 1.5 (0.038) |
| benzo (a) anthracene | 56-55-3 | mg/kg | ND (0.038) U | ND (0.038) U | 63 (1.1) | 3 (0.037) | 0.81 (0.038) |
| benzo (a) pyrene | 50-32-8 | mg/kg | ND (0.038) U | ND (0.038) U | 56 (0.37) | 2.4 (0.037) | 0.29 (0.038) J |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | ND (0.038) U | ND (0.038) U | 93 (1.1) | 4.4 (0.037) | 0.37 (0.038) J |
| benzo (ghi) perylene | 191-24-2 | mg/kg | ND (0.038) U | ND (0.038) U | 24 (0.37) | 1 (0.037) | 0.065 (0.038) J |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | ND (0.038) U | ND (0.038) U | 32 (0.37) | 1.5 (0.037) | 0.16 (0.038) J |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.037) 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 (0.073) U | ND (0.075) U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| carbazole | 86-74-8 | mg/kg | ND (0.038) UJ | ND (0.038) U | 5.9 (0.37) | 0.4 (0.037) | 0.49 (0.038) |
| chrysene | 218-01-9 | mg/kg | ND (0.038) UJ | ND (0.038) UJ | 66 (1.1) | 3.3 (0.037) | 0.61 (0.038) |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) 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 (0.073) U | ND (0.075) U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | ND (0.038) U | ND (0.038) U | 8.4 (0.37) | 0.37 (0.037) | ND (0.038) U |
| dibenzofuran | 132-64-9 | mg/kg | ND (0.038) U | ND (0.038) U | 0.75 (0.037) | 0.028 (0.037) J | 1.6 (0.038) |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| fluoranthene | 206-44-0 | mg/kg | ND (0.038) U | ND (0.038) U | 110 (1.1) | 5.9 (0.037) | 3.3 (0.038) |
| fluorene | 86-73-7 | mg/kg | ND (0.038) U | ND (0.038) U | 1.4 (0.037) | 0.14 (0.037) J | 2.2 (0.038) |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.076) U | ND (0.076) U | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND (0.19) U | ND (0.19) U | ND (0.18) 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 (0.037) U | ND (0.038) U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | ND (0.038) U | ND (0.038) U | 32 (0.37) | 1.3 (0.037) | 0.094 (0.038) J |
| isophorone | 78-59-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.037) U | ND (0.038) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) 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 (0.037) U | ND (0.038) U |
| naphthalene | 91-20-3 | mg/kg | ND (0.038) U | ND (0.038) U | 0.77 (0.037) | 0.076 (0.037) J | 0.4 (0.038) |
| nitrobenzene | 98-95-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) 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 (0.18) U | ND (0.19) U |
| phenanthrene | 85-01-8 | mg/kg | ND (0.038) U | ND (0.038) U | 7.7 (0.37) | 0.56 (0.037) | 7.6 (0.075) |
| phenol | 108-95-2 | mg/kg | ND (0.076) U | 0.22 (0.076) J | ND (0.074) U | ND (0.073) U | ND (0.075) U |
| pyrene | 129-00-0 | mg/kg | ND (0.038) U | ND (0.038) U | 140 (1.1) | 7.9 (0.073) | 2.2 (0.038) |
| *Other Parameters* | | | | | | | |
| Moisture Content (b) | N.A. | wt.% | 11.9 (0.08) | 11.8 (0.08) | 9.64 (0.08) | 8.97 (0.08) | 11.3 (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).
U qualifier denotes not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-20 (0' - 1') | | | GEO-20 (2' - 3') | | | GEO-20 (5' - 6') | | | GEO-20 (9' - 10') | | | GEO-21 (0' - 1') | | | GEO-21 (2' - 3') | | | GEO-21 (5' - 6') | | | GEO-21 (9' - 10') | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | 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 | ND | (0.04) | 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 | (0.038) | U | 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 | (0.038) | U | 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 | (0.038) | U | ND | (0.04) | U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND | (0.2) | | ND | (0.04) | U | ND | (0.19) | UJ | ND | (0.037) | UJ | ND | (5) | UJ | ND | (2.6) | UJ | ND | (0.038) | UJ | ND | (0.04) | UJ |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | 8.9 | (5.1) | J | 0.079 | (0.077) | J | 0.22 | (0.08) | J |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND | (1.2) | | ND | (0.23) | U | ND | (1.1) | | ND | (0.22) | U | ND | (29) | | ND | (15) | | ND | (0.22) | U | ND | (0.22) | U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | 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 | ND | (0.04) | U |
| 2-chloronaphthalene | 91-58-7 | 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 | ND | (0.04) | U |
| 2-chlorophenol | 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 | ND | (0.04) | U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | 0.27 | (0.2) | J | ND | (0.04) | U | 120 | (1.9) | | 63 | (1.9) | | 280 | (5) | | 1500 | (26) | | 0.1 | (0.038) | J | 0.44 | (0.04) | |
| 2-methylphenol | 95-48-7 | 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 | 0.051 | (0.04) | J |
| 2-nitroaniline | 88-74-4 | 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 | ND | (0.04) | U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND | (1) | | ND | (0.2) | U | ND | (0.95) | | ND | (0.19) | U | ND | (25) | | ND | (13) | | ND | (0.19) | U | ND | (0.2) | U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 4-chloroaniline | 106-47-8 | 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 | ND | (0.04) | U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | 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 | ND | (0.04) | U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND | (1) | | ND | (0.2) | U | ND | (0.95) | | ND | (0.19) | U | ND | (25) | | ND | (13) | | ND | (0.19) | U | ND | (0.2) | U |
| acenaphthene | 83-32-9 | mg/kg | ND | (0.2) | | ND | (0.04) | U | 100 | (1.9) | | 53 | (1.9) | | 190 | (5) | | 1200 | (26) | | 0.2 | (0.038) | J | 0.47 | (0.04) | |
| acenaphthylene | 208-96-8 | mg/kg | 1.4 | (0.2) | J | ND | (0.04) | U | 2.9 | (0.19) | | 1.6 | (0.037) | | 47 | (5) | J | 50 | (2.6) | | ND | (0.038) | U | ND | (0.04) | U |
| anthracene | 120-12-7 | mg/kg | 2.1 | (0.2) | | ND | (0.04) | U | 43 | (1.9) | | 22 | (1.9) | | 760 | (9.9) | | 1800 | (26) | | 0.29 | (0.038) | J | 0.39 | (0.04) | J |
| benzo (a) anthracene | 56-55-3 | mg/kg | 3.2 | (0.2) | | 0.04 | (0.04) | J | 30 | (0.19) | | 15 | (1.9) | J | 280 | (5) | | 390 | (2.6) | | 0.16 | (0.038) | J | 0.24 | (0.04) | J |
| benzo (a) pyrene | 50-32-8 | mg/kg | 3.2 | (0.2) | | 0.079 | (0.04) | J | 11 | (0.19) | | 5.2 | (1.9) | J | 230 | (5) | | 190 | (2.6) | | 0.079 | (0.038) | J | 0.11 | (0.04) | J |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 5.6 | (0.2) | | 0.067 | (0.04) | J | 17 | (0.19) | | 7.8 | (1.9) | J | 460 | (5) | | 270 | (2.6) | | 0.11 | (0.038) | J | 0.15 | (0.04) | J |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 2.7 | (0.2) | | 0.045 | (0.04) | J | 2.5 | (0.19) | | 1.5 | (0.037) | | 90 | (5) | | 71 | (2.6) | | ND | (0.038) | U | ND | (0.04) | U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 1.8 | (0.2) | JD | ND | (0.04) | U | 6 | (0.19) | | 3.7 | (0.037) | | 160 | (5) | | 76 | (2.6) | | ND | (0.038) | U | 0.051 | (0.04) | J |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| bis (2-chloroethyl) ether | 111-44-4 | 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 | ND | (0.04) | U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| carbazole | 86-74-8 | mg/kg | 0.6 | (0.2) | J | ND | (0.04) | U | 24 | (0.19) | | 9.5 | (1.9) | J | 230 | (5) | | 620 | (26) | | 0.21 | (0.038) | J | 0.24 | (0.04) | J |
| chrysene | 218-01-9 | mg/kg | 3.7 | (0.2) | | 0.05 | (0.04) | J | 23 | (0.19) | | 12 | (1.9) | J | 290 | (5) | | 410 | (2.6) | | 0.14 | (0.038) | J | 0.19 | (0.04) | J |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| di-n-octyl phthalate | 117-84-0 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | 0.76 | (0.2) | J | ND | (0.04) | U | 0.76 | (0.19) | J | 0.5 | (0.037) | | 34 | (5) | J | 22 | (2.6) | J | ND | (0.038) | U | ND | (0.04) | U |
| dibenzofuran | 132-64-9 | mg/kg | 0.34 | (0.2) | J | ND | (0.04) | U | 92 | (1.9) | | 46 | (1.9) | | 190 | (5) | | 1100 | (26) | | 0.24 | (0.038) | J | 0.49 | (0.04) | |
| diethyl phthalate | 84-66-2 | mg/kg | ND | (0.41) | J | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| fluoranthene | 206-44-0 | mg/kg | 5.7 | (0.2) | | 0.098 | (0.04) | J | 150 | (1.9) | | 78 | (1.9) | | 670 | (5) | | 2000 | (26) | | 0.73 | (0.038) | | 1.1 | (0.04) | |
| fluorene | 86-73-7 | mg/kg | ND | (0.2) | U | ND | (0.04) | U | 110 | (1.9) | | 54 | (1.9) | | 260 | (5) | | 1500 | (26) | | 0.35 | (0.038) | J | 0.62 | (0.04) | |
| hexachlorobenzene | 118-74-1 | 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 | ND | (0.04) | U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | ND | (0.075) | U | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND | (1) | | ND | (0.2) | U | ND | (0.95) | | ND | (0.19) | U | ND | (25) | | ND | (13) | | ND | (0.19) | U | ND | (0.2) | U |
| hexachloroethane | 67-72-1 | 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 | ND | (0.04) | U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | 2.9 | (0.2) | | 0.057 | (0.04) | J | 3.5 | (0.19) | | 2 | (0.037) | | 120 | (5) | | 81 | (2.6) | | 0.04 | (0.038) | J | 0.047 | (0.04) | J |
| isophorone | 78-59-1 | 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 | ND | (0.04) | U |
| N-nitrosodi-n-propylamine | 621-64-7 | 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 | ND | (0.04) | U |
| N-nitrosodiphenylamine | 86-30-6 | 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 | ND | (0.04) | U |
| naphthalene | 91-20-3 | mg/kg | 0.68 | (0.2) | J | ND | (0.04) | U | 240 | (1.9) | | 150 | (1.9) | | 490 | (5) | | 3500 | (26) | | 0.15 | (0.038) | J | 0.86 | (0.04) | |
| nitrobenzene | 98-95-3 | 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 | ND | (0.04) | U |
| pentachlorophenol | 87-86-5 | mg/kg | ND | (1) | | ND | (0.2) | U | ND | (0.95) | | ND | (0.19) | U | ND | (25) | | ND | (13) | | ND | (0.19) | U | ND | (0.2) | U |
| phenanthrene | 85-01-8 | mg/kg | 1.2 | (0.2) | J | ND | (0.04) | U | 300 | (1.9) | | 170 | (1.9) | | 750 | (5) | | 4000 | (26) | | 1.4 | (0.038) | | 2.2 | (0.04) | |
| phenol | 108-95-2 | mg/kg | ND | (0.41) | | ND | (0.079) | U | ND | (0.38) | | 0.1 | (0.075) | J | ND | (9.9) | | ND | (5.1) | | ND | (0.077) | U | ND | (0.08) | U |
| pyrene | 129-00-0 | mg/kg | 5.3 | (0.2) | | 0.091 | (0.04) | J | 93 | (1.9) | | 44 | (1.9) | | 650 | (5) | | 1300 | (26) | | 0.45 | (0.038) | | 0.7 | (0.04) | |
| *Other Parameters* | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moisture Content (b) | NA | wt % | 18.1 | (0.08) | | 16.0 | (0.08) | | 12.7 | (0.08) | | 11.1 | (0.08) | | 16.0 | (0.08) | | 35.1 | (0.08) | | 13.2 | (0.08) | | 16.4 | (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).
U qualifier denotes not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 Creosoting Site***
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-22 (0' - 1') | GEO-22 (2' - 3') | GEO-22 (5' - 6') | GEO-23 (0' - 1') | GEO-23 (2' - 3') | GEO-23 (5' - 6') |
|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 1,2-dichlorobenzene | 95-50-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 1,3-dichlorobenzene | 541-73-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 1,4-dichlorobenzene | 106-46-7 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.034) UJ | ND (0.041) UJ | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND (0.2) U | ND (0.24) U | ND (0.23) UJ | ND (0.21) U | ND (0.23) U | ND (0.23) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 2,6-dinitrotoluene | 606-20-2 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | 0.036 (0.034) J | 1.1 (0.041) | ND (0.039) UJ | 0.074 (0.036) J | ND (0.04) U | ND (0.04) U |
| 2-methylphenol | 95-48-7 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND (0.17) U | ND (0.2) U | ND (0.2) UJ | ND (0.18) U | ND (0.2) U | ND (0.2) U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND (0.17) U | ND (0.2) U | ND (0.2) UJ | ND (0.18) U | ND (0.2) U | ND (0.2) U |
| acenaphthene | 83-32-9 | mg/kg | ND (0.034) U | 0.35 (0.041) J | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| acenaphthylene | 208-96-8 | mg/kg | 0.098 (0.034) J | 2 (0.041) | ND (0.039) UJ | 0.11 (0.036) J | ND (0.04) U | ND (0.04) U |
| anthracene | 120-12-7 | mg/kg | 0.21 (0.034) J | 3.4 (0.041) | 0.078 (0.039) J | 0.11 (0.036) J | 0.15 (0.04) J | ND (0.04) U |
| benzo (a) anthracene | 56-55-3 | mg/kg | 0.39 (0.034) | 4.5 (0.041) | ND (0.039) UJ | 0.35 (0.036) J | 0.084 (0.04) J | ND (0.04) U |
| benzo (a) pyrene | 50-32-8 | mg/kg | 0.39 (0.034) | 6.1 (0.2) | 0.048 (0.039) J | 0.37 (0.036) | 0.073 (0.04) J | ND (0.04) U |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 0.72 (0.034) | 16 (0.2) (c) | 0.076 (0.039) J | 0.82 (0.036) (c) | 0.15 (0.04) J (c) | ND (0.04) U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 0.28 (0.034) J | 3.8 (0.041) | 0.045 (0.039) J | 0.32 (0.036) J | 0.055 (0.04) J | ND (0.04) U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 0.21 (0.034) J | ND (0.041) U (c) | ND (0.039) UJ | ND (0.036) U (c) | ND (0.04) U (c) | ND (0.04) U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | 0.65 (0.069) (d) | ND (0.082) U | ND (0.078) UJ | 0.11 (0.072) J (d) | ND (0.08) U | ND (0.08) U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | 0.15 (0.069) J (d) | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| carbazole | 86-74-8 | mg/kg | 0.096 (0.034) J | 0.39 (0.041) J | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| chrysene | 218-01-9 | mg/kg | 0.44 (0.034) | 6.9 (0.2) | 0.049 (0.039) J | 0.44 (0.036) | 0.092 (0.04) J | ND (0.04) U |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| di-n-octyl phthalate | 117-84-0 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | 0.084 (0.034) J | 1.5 (0.041) | ND (0.039) UJ | 0.096 (0.036) J | ND (0.04) U | ND (0.04) U |
| dibenzofuran | 132-64-9 | mg/kg | 0.037 (0.034) J | 1.1 (0.041) | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| fluoranthene | 206-44-0 | mg/kg | 0.71 (0.034) | 5.6 (0.2) | 0.065 (0.039) J | 0.51 (0.036) | 0.2 (0.04) J | ND (0.04) U |
| fluorene | 86-73-7 | mg/kg | 0.038 (0.034) J | 0.66 (0.041) V | 0.042 (0.039) J | ND (0.036) U | 0.054 (0.04) J | ND (0.04) U |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND (0.17) U | ND (0.2) U | ND (0.2) UJ | ND (0.18) U | ND (0.2) U | ND (0.2) U |
| hexachloroethane | 67-72-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| indeno (1,2,3-cd) 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 | 0.057 (0.04) J | ND (0.04) U |
| isophorone | 78-59-1 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | 0.061 (0.04) J | ND (0.04) U |
| naphthalene | 91-20-3 | mg/kg | 0.095 (0.034) J | 3.7 (0.041) | ND (0.039) UJ | 0.086 (0.036) J | ND (0.04) U | ND (0.04) U |
| nitrobenzene | 98-95-3 | mg/kg | ND (0.034) U | ND (0.041) U | ND (0.039) UJ | ND (0.036) U | ND (0.04) U | ND (0.04) U |
| pentachlorophenol | 87-86-5 | mg/kg | ND (0.17) U | ND (0.2) U | ND (0.2) UJ | ND (0.18) U | ND (0.2) U | ND (0.2) U |
| phenanthrene | 85-01-8 | mg/kg | 0.29 (0.034) | 2.5 (0.041) | 0.064 (0.039) J | 0.18 (0.036) J | 0.27 (0.04) J | ND (0.04) U |
| phenol | 108-95-2 | mg/kg | ND (0.069) U | ND (0.082) U | ND (0.078) UJ | ND (0.072) U | ND (0.08) U | ND (0.08) U |
| pyrene | 129-00-0 | mg/kg | 0.61 (0.034) | 8.4 (0.2) | 0.092 (0.039) J | 0.5 (0.036) | 0.16 (0.04) J | ND (0.04) U |
| *Other Parameters* | | | | | | | | |
| Moisture Content(b) | N.A. | wt.% | 3.35 (0.08) | 18.3 (0.08) | 15 (0.08) | 7.36 (0.08) | 16.5 (0.08) | 17.1 (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* (B[b]F) and Benzo(k)fluoranthene (B[k]F). 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 not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-24 (0' - 1') | GEO-24 (2' - 3') | GEO-24 (5' - 6') | GEO-25 (0' - 1') | GEO-25 (2' - 3') | GEO-25 (5' - 6') |
|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | | |
| 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 | ND (0.038) U | ND (0.039) 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 | ND (0.038) U | ND (0.039) 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 | ND (0.038) U | ND (0.039) 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 | ND (0.038) U | ND (0.039) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND (0.22) U | ND (0.22) U | ND (0.22) U | ND (0.22) U | ND (0.22) U | ND (0.23) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) 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 | ND (0.038) U | ND (0.039) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2-methylphenol | 95-48-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | 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 |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| 4-nitrophenol | 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 |
| acenaphthene | 83-32-9 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| acenaphthylene | 208-96-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| anthracene | 120-12-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.054 (0.038) J | ND (0.038) U | ND (0.039) U |
| benzo (a) anthracene | 56-55-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.13 (0.038) J | ND (0.038) U | ND (0.039) U |
| benzo (a) pyrene | 50-32-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.2 (0.038) J | ND (0.038) U | ND (0.039) U |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.47 (0.038) (c) | 0.039 (0.038) J (c) | ND (0.039) U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.12 (0.038) J | ND (0.038) U | ND (0.039) 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 (c) | ND (0.038) U (c) | ND (0.039) U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) 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 | ND (0.038) U | ND (0.039) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| carbazole | 86-74-8 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| chrysene | 218-01-9 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.18 (0.038) J | ND (0.038) U | ND (0.039) U |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| di-n-octyl phthalate | 117-84-0 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| dibenzofuran | 132-64-9 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| fluoranthene | 206-44-0 | mg/kg | ND (0.038) U | 0.058 (0.038) J | ND (0.037) U | 0.1 (0.038) J | ND (0.038) U | ND (0.039) U |
| fluorene | 86-73-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| hexachlorocyclopentadiene | 77-47-4 | 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 |
| hexachloroethane | 67-72-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | 0.15 (0.038) J | ND (0.038) U | ND (0.039) U |
| isophorone | 78-59-1 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| N-nitroso-di-n-propylamine | 621-64-7 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| naphthalene | 91-20-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| nitrobenzene | 98-95-3 | mg/kg | ND (0.038) U | ND (0.038) U | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| pentachlorophenol | 87-86-5 | 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 |
| phenanthrene | 85-01-8 | mg/kg | ND (0.038) U | 0.049 (0.038) J | ND (0.037) U | ND (0.038) U | ND (0.038) U | ND (0.039) U |
| phenol | 108-95-2 | mg/kg | ND (0.077) U | ND (0.077) U | ND (0.075) U | ND (0.076) U | ND (0.076) U | ND (0.078) U |
| pyrene | 129-00-0 | mg/kg | ND (0.038) U | 0.041 (0.038) J | ND (0.037) U | 0.17 (0.038) J | ND (0.038) U | ND (0.039) U |
| *Other Parameters* | | | | | | | | |
| Moisture Content (b) | N.A. | wt.% | 13.0 (0.08) | 12.9 (0.08) | 11.0 (0.08) | 12.8 (0.08) | 12.1 (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 (B[b]F) and Benzo(k)fluoranthene (B[k]F). 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 quantitiation is estimated due to limitiations 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-26 (0' - 1') | GEO-26 (2' - 3') | GEO-26 (5' - 6') | GEO-27 (0' - 1') | GEO-27 (2' - 3') | GEO-27 (5' - 6') | GEO-27 (5' - 6') Duplicate (a) |
|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | |
| 1,2,4-trichlorobenzene | 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 (0.037) U | ND (0.036) 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 (0.037) U | ND (0.036) U | ND (0.037) U | ND (36) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | 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 |
| 2,4,5-trichlorophenol | 95-95-4 | 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 |
| 2,4,6-trichlorophenol | 88-06-2 | 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 |
| 2,4-dichlorophenol | 120-83-2 | 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 |
| 2,4-dimethylphenol | 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-chloronaphthalene | 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 | 95-57-8 | 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-methylnaphthalene | 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 | 95-48-7 | 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 (0.079) U | ND (0.078) U | ND (0.073) U | ND (0.072) U | ND (0.073) U | ND (73) U |
| 2-nitrophenol | 88-75-5 | 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 | 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- and 4-methylphenol | 106-44-5 | 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-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 | 534-52-1 | 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 |
| acenaphthene | 83-32-9 | 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 |
| acenaphthylene | 208-96-8 | 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 |
| 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) anthracene | 56-55-3 | mg/kg | ND (0.039) U | 0.04 (0.039) J | ND (0.039) U | ND (0.037) U | ND (0.036) U | ND (0.037) U | ND (36) U |
| benzo (a) pyrene | 50-32-8 | 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 |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | ND (0.039) U | 0.054 (0.039) J | ND (0.039) U | ND (0.037) U | ND (0.036) U | ND (0.037) U | ND (36) U |
| benzo (ghi) perylene | 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-chloroethoxy) methane | 111-91-1 | 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 |
| bis (2-chloroethyl) ether | 111-44-4 | 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 |
| chrysene | 218-01-9 | mg/kg | ND (0.039) U | 0.04 (0.039) J | 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 |
| dibenz (a,h) anthracene | 53-70-3 | 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 | 132-64-9 | 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 |
| dimethyl phthalate | 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 | 0.072 (0.039) J | ND (0.039) U | ND (0.037) U | ND (0.036) U | ND (0.037) U | ND (36) U |
| fluorene | 86-73-7 | 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 |
| hexachlorobenzene | 118-74-1 | 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 |
| hexachlorobutadiene | 87-68-3 | 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 |
| hexachlorocyclopentadiene | 77-47-4 | 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 |
| hexachloroethane | 67-72-1 | 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 |
| indeno (1,2,3-cd) pyrene | 193-39-5 | 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 |
| N-nitrosodi-n-propylamine | 621-64-7 | 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 |
| N-nitrosodiphenylamine | 86-30-6 | 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 |
| 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 | 87-86-5 | 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 |
| phenol | 108-95-2 | 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 |
| pyrene | 129-00-0 | mg/kg | ND (0.039) U | 0.085 (0.039) J | ND (0.039) U | ND (0.037) U | ND (0.036) U | ND (0.037) U | ND (36) U |
| *Other Parameters* | | | | | | | | | |
| Moisture Content (c) | N/A | wt.% | 14.1 (0.08) | 15.4 (0.08) | 14.3 (0.08) | 8.79 (0.08) | 7.70 (0.08) | 8.92 (0.08) | 6.39 (0.08) |

**Notes:**
ND 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 Wastes*, March 1983).
U qualifier denotes not detected.
J qualifier denotes quantitiation is estimated due to limitiations 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: GEO-28 (0' - 1") | | GEO-28 (2' - 3') | | GEO-28 (5' - 6') | | GEO-29 (0' - 1') | | GEO-29 (0' - 1') Duplicate (a) | | GEO-29 (2' - 3') | | GEO-29 (5' - 6') | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | 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 | | 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 | | 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 | | ND (0.039) U | |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.038) UJ | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| 2,4,5-trichlorophenol | 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 | | 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 | | 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 | | 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 | | 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 (1.1) | | ND (1.1) | | ND (0.23) U | | 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 | | 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 | | 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 | | 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 | | ND (0.039) U | |
| 2-methylnaphthalene | 91-57-6 | mg/kg | 0.051 (0.038) J | | ND (0.04) U | | ND (0.039) U | | 0.26 (0.19) J | | 0.71 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| 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 | | ND (0.039) U | |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.077) UJ | | ND (0.081) U | | ND (0.078) U | | ND (0.38) | | ND (0.37) | | ND (0.078) U | | ND (0.078) U | |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND (0.077) U | | ND (0.081) U | | ND (0.078) U | | ND (0.38) | | ND (0.37) | | ND (0.078) U | | ND (0.078) U | |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND (0.077) U | | ND (0.081) U | | ND (0.078) U | | ND (0.38) | | ND (0.37) | | ND (0.078) U | | ND (0.078) 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 | | ND (0.078) U | |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND (0.19) U | | ND (0.2) U | | ND (0.2) U | | ND (0.95) | | ND (0.92) | | ND (0.2) U | | ND (0.19) U | |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND (0.077) U | | ND (0.081) U | | ND (0.078) U | | ND (0.38) | | ND (0.37) | | ND (0.078) U | | ND (0.078) U | |
| 4-chloro-3-methylphenol | 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 | | ND (0.078) U | |
| 4-chloroaniline | 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 | | ND (0.039) U | |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| 4-nitroaniline | 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 | | ND (0.078) U | |
| 4-nitrophenol | 100-02-7 | mg/kg | ND (0.19) U | | ND (0.2) U | | ND (0.2) U | | ND (0.95) | | ND (0.92) | | ND (0.2) U | | ND (0.19) 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 | | ND (0.039) U | |
| acenaphthylene | 208-96-8 | mg/kg | 0.12 (0.038) J | | ND (0.04) U | | ND (0.039) U | | 1.2 (0.19) J | | 0.39 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| anthracene | 120-12-7 | mg/kg | 0.13 (0.038) J | | ND (0.04) U | | ND (0.039) U | | 2.5 (0.19) | | 0.48 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| benzo (a) anthracene | 56-55-3 | mg/kg | 0.79 (0.038) | | ND (0.04) U | | ND (0.039) U | | 4.1 (0.19) | | 0.61 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| benzo (a) pyrene | 50-32-8 | mg/kg | 1.1 (0.038) | | ND (0.04) U | | ND (0.039) U | | 3.5 (0.19) | | 0.75 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 1.9 (0.038) | | ND (0.04) U | | ND (0.039) U | | 8.6 (0.19) | | 1.4 (0.18) J | | ND (0.039) U | | ND (0.039) 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 | | 0.57 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 0.67 (0.038) | | ND (0.04) U | | ND (0.039) U | | 3.2 (0.19) | | 0.44 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| bis (2-chloroethoxy) 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 | | ND (0.078) U | |
| bis (2-chloroethyl) 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 | | 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) U | | ND (0.37) U | | ND (0.078) U | | ND (0.078) U | |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND (0.077) U | | ND (0.081) U | | ND (0.078) U | | ND (0.38) | | ND (0.37) | | ND (0.078) U | | 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) | | ND (0.039) U | | ND (0.039) U | |
| chrysene | 218-01-9 | mg/kg | 1.1 (0.038) | | ND (0.04) U | | ND (0.039) U | | 6.7 (0.19) | | 0.9 (0.18) J | | ND (0.039) U | | ND (0.039) 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 | | 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 | | ND (0.078) U | |
| dibenz (a,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 | | 0.23 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| dibenzofuran | 132-64-9 | mg/kg | 0.039 (0.038) J | | ND (0.04) U | | ND (0.039) U | | 0.25 (0.19) J | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| 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 | | 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 | | ND (0.078) U | |
| fluoranthene | 206-44-0 | mg/kg | 1 (0.038) | | ND (0.04) U | | ND (0.039) U | | 12 (0.19) | | 0.89 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| fluorene | 86-73-7 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | 0.48 (0.19) J | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.038) R | | ND (0.04) R | | ND (0.039) U | | ND (0.19) R | | ND (0.18) R | | ND (0.039) R | | ND (0.039) R | |
| 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 | | 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 (0.2) U | | ND (0.19) U | |
| hexachloroethane | 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 | | ND (0.039) U | |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | 0.73 (0.038) | | ND (0.04) U | | ND (0.039) U | | 2.1 (0.19) | | 0.69 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| isophorone | 78-59-1 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | ND (0.039) U | |
| N-nitrosodi-n-propylamine | 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 | | ND (0.039) U | |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND (0.038) U | | ND (0.04) U | | ND (0.039) U | | ND (0.19) | | ND (0.18) | | ND (0.039) U | | 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 | | 0.34 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| 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 | | ND (0.039) U | |
| pentachlorophenol | 87-86-5 | mg/kg | ND (0.19) U | | ND (0.2) U | | ND (0.2) U | | ND (0.95) | | ND (0.92) | | ND (0.2) U | | ND (0.19) U | |
| phenanthrene | 85-01-8 | mg/kg | 0.18 (0.038) J | | ND (0.04) U | | ND (0.039) U | | 2.8 (0.19) | | 0.42 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| phenol | 108-95-2 | mg/kg | ND (0.077) U | | 0.15 (0.081) J | | 0.23 (0.078) J | | ND (0.38) | | 0.38 (0.37) J | | 0.11 (0.078) J | | 0.11 (0.078) J | |
| pyrene | 129-00-0 | mg/kg | 1.5 (0.038) | | ND (0.04) U | | ND (0.039) U | | 9.8 (0.19) | | 0.91 (0.18) J | | ND (0.039) U | | ND (0.039) U | |
| *Other Parameters* | | | | | | | | | | | | | | | | |
| Moisture Content (c) | NA | wt. % | 13.3 (0.08) | | 17.3 (0.08) | | 14.8 (0.08) | | 12.3 (0.08) | | 8.93 (0.08) | | 14.8 (0.08) | | 14.1 (0.08) | |

**Notes:**
ND denotes "Not Detected" at method detection limit shown in parentheses.
(a) Listed on chain-of-custody documentation as sample GEO-34/0'-1'.
(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 quantitiation is estimated due to limitiations 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 | Sample Identifier: GEO-30 (0' - 1') | | | GEO-30 (2' - 3') | | | GEO-30 (5' - 6') | | | GEO-31 (0' - 1') | | | GEO-31 (2' - 3') | | | GEO-31 (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 | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.038) | U | ND | (0.038) | U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | 0.11 | (0.077) | J | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND | (0.23) | U | ND | (0.24) | U | ND | (0.22) | U | ND | (0.22) | 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 | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.038) | U | ND | (0.038) | U |
| 2-methylphenol | 95-48-7 | mg/kg | 0.042 | (0.039) | J | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND | (0.19) | U | ND | (0.21) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.038) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND | (0.19) | U | ND | (0.21) | U | ND | (0.19) | U | ND | (0.19) | 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 | ND | (0.038) | U | ND | (0.038) | U |
| acenaphthylene | 208-96-8 | mg/kg | 2.4 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| anthracene | 120-12-7 | mg/kg | 4.1 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| benzo (a) anthracene | 56-55-3 | mg/kg | 11 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| benzo (a) pyrene | 50-32-8 | mg/kg | 8 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 17 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 3.7 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 6.1 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| carbazole | 86-74-8 | mg/kg | 1.7 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| chrysene | 218-01-9 | mg/kg | 15 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.076) | U | ND | (0.075) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | 1.5 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| dibenzofuran | 132-64-9 | mg/kg | 0.34 | (0.039) | J | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.076) | U | ND | (0.075) | U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| fluoranthene | 206-44-0 | mg/kg | 23 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| fluorene | 86-73-7 | mg/kg | 0.47 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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) | R | ND | (0.038) | R | ND | (0.038) | U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND | (0.077) | U | ND | (0.082) | U | ND | (0.077) | U | ND | (0.076) | U | ND | (0.076) | U | ND | (0.075) | U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND | (0.19) | U | ND | (0.21) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | U |
| hexachloroethane | 67-72-1 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | 5.6 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| isophorone | 78-59-1 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND | (0.039) | U | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| naphthalene | 91-20-3 | mg/kg | 0.69 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | 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 | ND | (0.038) | U | ND | (0.038) | U |
| pentachlorophenol | 87-86-5 | mg/kg | ND | (0.19) | U | ND | (0.21) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | U | ND | (0.19) | U |
| phenanthrene | 85-01-8 | mg/kg | 4.7 | (0.039) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| phenol | 108-95-2 | mg/kg | 0.24 | (0.077) | J | 0.1 | (0.082) | J | 0.15 | (0.077) | J | 0.19 | (0.076) | J | 0.14 | (0.076) | J | ND | (0.075) | U |
| pyrene | 129-00-0 | mg/kg | 19 | (0.39) | | ND | (0.041) | U | ND | (0.039) | U | ND | (0.038) | U | ND | (0.038) | U | ND | (0.038) | U |
| *Other Parameters* | | | | | | | | | | | | | | | | | | | | |
| Moisture Content (b) | NA | % | 15.6 | (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 quantitiation is estimated due to limitiations 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 | Sample Identifier: GEO-32 (0' - 1') | GEO-32 (2' - 3') | GEO-32 (5' - 6') | GEO-33 (0' - 1') | GEO-33 (0' - 1') Duplicate (a) | GEO-33 (2' - 3') | GEO-33 (5' - 6') |
|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 1,2-dichlorobenzene | 95-50-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) UJ |
| 1,3-dichlorobenzene | 541-73-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) UJ |
| 1,4-dichlorobenzene | 106-46-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | 0.16 (0.076) J | ND (0.079) U | ND (0.083) U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND (0.23) UJ | ND (0.23) U | ND (0.23) U | ND (2.2) | ND (0.22) U | ND (0.23) 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 (0.75) | ND (0.076) U | ND (0.079) 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 (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 11 (0.38) | 7.4 (3) J | 0.88 (0.039) | ND (0.041) U |
| 2-methylphenol | 95-48-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND (0.19) UJ | ND (0.19) U | ND (0.2) U | ND (1.9) | ND (0.19) U | ND (0.2) U | ND (0.21) U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 4-chlorophenyl phenyl ether | 2005-72-3 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND (0.19) U | ND (0.19) U | ND (0.2) U | ND (1.9) | ND (0.19) U | ND (0.2) U | ND (0.21) U |
| acenaphthene | 83-32-9 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 66 (7.5) J | 41 (3) | 5 (0.039) | 0.11 (0.041) J |
| acenaphthylene | 208-96-8 | mg/kg | 0.048 (0.039) J | ND (0.039) U | ND (0.039) U | 20 (0.38) | 12 (3) J | 1.7 (0.039) | ND (0.041) U |
| anthracene | 120-12-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 94 (7.5) | 58 (3) | 8.5 (0.79) | 0.22 (0.041) J |
| benzo (a) anthracene | 56-55-3 | mg/kg | 0.29 (0.039) J | ND (0.039) U | ND (0.039) U | 100 (7.5) | 67 (3) | 11 (0.79) | 0.16 (0.041) J |
| benzo (a) pyrene | 50-32-8 | mg/kg | 0.31 (0.039) J | ND (0.039) U | ND (0.039) U | 64 (7.5) J | 41 (3) | 5.2 (0.039) | 0.089 (0.041) J |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 0.76 (0.039) | ND (0.039) U | 0.41 (0.039) | 97 (7.5) | 62 (3) | 8.6 (0.79) | 0.14 (0.041) J |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 0.23 (0.039) J | ND (0.039) U | ND (0.039) U | 30 (0.38) | 21 (3) J | 2.4 (0.039) | 0.042 (0.041) J |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 0.46 (0.039) | ND (0.039) U | 0.35 (0.039) J | 36 (0.38) | 21 (3) J | 2.9 (0.039) | 0.05 (0.041) J |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | ND (0.078) U | 0.15 (0.077) J (d) | 0.14 (0.078) J (d) | ND (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| carbazole | 86-74-8 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 16 (0.38) | 11 (3) J | 1.6 (0.039) | ND (0.041) U |
| chrysene | 218-01-9 | mg/kg | 0.37 (0.039) J | ND (0.039) UJ | 0.041 (0.039) J | 100 (7.5) | 65 (3) | 9.6 (0.79) | 0.17 (0.041) J |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) 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 | 10 (0.38) | 4.9 (0.038) | 0.84 (0.039) | ND (0.041) U |
| dibenzofuran | 132-64-9 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 35 (0.38) | 23 (3) J | 2.8 (0.039) | 0.099 (0.041) J |
| diethyl phthalate | 84-66-2 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) 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 (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| fluoranthene | 206-44-0 | mg/kg | 0.13 (0.039) J | ND (0.039) U | 0.13 (0.039) J | 440 (7.5) | 270 (3) | 42 (0.79) | 0.7 (0.041) |
| fluorene | 86-73-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 78 (7.5) | 48 (3) | 6.2 (0.039) | 0.17 (0.041) J |
| hexachlorobenzene | 118-74-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND (0.078) U | ND (0.077) U | ND (0.078) U | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND (0.19) U | ND (0.19) U | ND (0.2) U | ND (1.9) | ND (0.19) U | ND (0.2) U | ND (0.21) U |
| hexachloroethane | 67-72-1 | mg/kg | ND (0.039) UJ | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) UJ |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | 0.26 (0.039) J | ND (0.039) U | ND (0.039) U | 37 (0.38) | 25 (3) J | 3 (0.039) | 0.052 (0.041) J |
| isophorone | 78-59-1 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| naphthalene | 91-20-3 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | 8.3 (0.38) | 5.4 (0.038) V | 0.75 (0.039) | ND (0.041) U |
| nitrobenzene | 98-95-3 | mg/kg | ND (0.039) U | ND (0.039) U | ND (0.039) U | ND (0.38) | ND (0.038) U | ND (0.039) U | ND (0.041) U |
| pentachlorophenol | 87-86-5 | mg/kg | ND (0.19) U | ND (0.19) U | ND (0.2) U | ND (1.9) | ND (0.19) U | ND (0.2) U | ND (0.21) U |
| phenanthrene | 85-01-8 | mg/kg | ND (0.039) U | ND (0.039) U | 0.085 (0.039) J | 300 (7.5) | 190 (3) | 29 (0.79) | 0.76 (0.041) |
| phenol | 108-95-2 | mg/kg | 0.14 (0.078) J | 0.12 (0.077) J | 0.17 (0.078) J | ND (0.75) | ND (0.076) U | ND (0.079) U | ND (0.083) U |
| pyrene | 129-00-0 | mg/kg | 0.25 (0.039) J | ND (0.039) U | 0.11 (0.039) J | 320 (7.5) | 200 (3) | 30 (0.79) | 0.44 (0.041) |
| *Other Parameters* | | | | | | | | | |
| Moisture Content (c) | N.A. | wt % | 14 (0.08) | 13.9 (0.08) | 15.0 (0.08) | 11.4 (0.08) | 12.4 (0.08) | 15.1 (0.08) | 19.3 (0.08) |

**Notes:**

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

(a) Listed on chain-of-custody documentation as sample GEO-02/0'-2'.

(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 quantitiation is estimated due to limitiations 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 4-2

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-16-GW | GEO-17-GW | GEO-17 (Duplicate) (a) | GEO-18-GW | GEO-19-GW | GEO-20-GW |
|---|---|---|---|---|---|---|---|---|
| *TCL Volatile Organics (b)* | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) 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 (0.002) U | ND (0.010) U | ND (0.002) U |
| 1,1-Dichloroethane | 75-34-3 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| 1,1-Dichloroethene | 75-35-4 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) 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 (0.002) U | ND (0.010) 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 (0.001) U | ND (0.005) 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 (0.003) U | ND (0.015) 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 (0.007) U | ND (0.035) 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 (0.005) U | ND (0.025) U | ND (0.005) U |
| Acetone | 67-64-1 | mg/L | ND (0.006) U | ND (0.300) U | ND (0.300) U | ND (0.006) U | ND (0.030) U | ND (0.006) U |
| Benzene | 71-43-2 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Bromodichloromethane | 75-27-4 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Bromoform | 75-25-2 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Bromomethane | 74-83-9 | mg/L | ND (0.003) U | ND (0.150) U | ND (0.150) U | ND (0.003) U | ND (0.015) 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 (0.003) U | ND (0.015) U | ND (0.003) U |
| Carbon Tetrachloride | 56-23-5 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Chlorobenzene | 108-90-7 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Chloroethane | 75-00-3 | mg/L | ND (0.003) U | ND (0.150) U | ND (0.150) U | ND (0.003) U | ND (0.015) U | ND (0.003) U |
| Chloroform | 67-66-3 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Chloromethane | 74-87-3 | mg/L | ND (0.003) U | ND (0.150) U | ND (0.150) U | ND (0.003) U | ND (0.015) U | ND (0.003) U |
| cis-1,2-Dichloroethene | 156-59-2 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| cis-1,3-Dichloropropene | 10061-01-5 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Dibromochloromethane | 124-48-1 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| Ethylbenzene | 100-41-4 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| Methylene Chloride | 75-09-2 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| Styrene | 100-42-5 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Tetrachloroethene | 127-18-4 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Toluene | 108-88-3 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| trans-1,2-Dichloroethene | 156-60-5 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| trans-1,3-Dichloropropene | 10061-02-6 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Trichloroethene | 79-01-6 | mg/L | ND (0.001) U | ND (0.050) U | ND (0.050) U | ND (0.001) U | ND (0.005) U | ND (0.001) U |
| Vinyl Chloride | 75-01-4 | mg/L | ND (0.002) U | ND (0.100) U | ND (0.100) U | ND (0.002) U | ND (0.010) U | ND (0.002) U |
| Xylene (Total) | 1330-20-7 | mg/L | ND (0.001) U | 0.082 (0.050) J | 0.057 (0.050) J | ND (0.001) U | 0.027 (0.005) J | 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 GEO-21-GW.
(b) Target Compound List (TCL) volatile organic compounds by EPA SW-846 method 8260.
U qualifier denotes not detected.
J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

**Table 4-2**
**(Continued)**

**Semivolatile 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: CPT-08-GW | CPT-09-GW | CPT-09-GW (Duplicate) (a) | CPT-10-GW | CPT-11-GW | CPT-12-GW | CPT-13-GW |
|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics* (b) | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.0009) 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 | ND (0.0009) 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 (0.0009) U | ND (0.001) U |
| 1,4-dichlorobenzene | 106-46-7 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.0009) U | ND (0.001) U |
| 2,2'oxybis (1-chloropropane) | 108-60-1 | 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 | ND (0.002) U |
| 2,4,5-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 | 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 | 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 | ND (0.0009) U | ND (0.001) U |
| 2,4-dimethylphenol | 105-67-9 | mg/L | ND (0.001) U | 0.06 (0.001) | 0.063 (0.001) | ND (0.001) U | 0.002 (0.001) J | ND (0.0009) U | ND (0.001) U |
| 2,4-dinitrophenol | 51-28-5 | mg/L | ND (0.014) U | ND (0.014) U | ND (0.014) U | ND (0.015) U | ND (0.016) U | ND (0.014) U | ND (0.015) UJ |
| 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 | ND (0.0009) U | ND (0.001) U |
| 2,6-dinitrotoluene | 606-20-2 | mg/L | 0.005 (0.002) J | 0.002 (0.002) J | 0.006 (0.002) J | 0.003 (0.002) J | 0.003 (0.002) J | 0.004 (0.002) J | 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 | ND (0.0009) 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 | ND (0.0009) U | ND (0.001) U |
| 2-methylnaphthalene | 91-57-6 | mg/L | 0.001 (0.001) J | 0.8 (0.095) J | 0.71 (0.095) J | ND (0.001) U | 0.023 (0.001) | 0.042 (0.0009) | 0.002 (0.001) J |
| 2-methylphenol | 95-48-7 | mg/L | ND (0.001) U | 0.009 (0.001) J | 0.008 (0.001) J | ND (0.001) U | 0.001 (0.001) J | ND (0.0009) 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 | 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 | ND (0.0009) U | ND (0.001) U |
| 3,3'-dichlorobenzidine | 91-94-1 | 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 | ND (0.005) 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 | ND (0.002) U |
| 4,6-dinitro-2-methylphenol | 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 | ND (0.005) U |
| 4-bromophenyl phenyl ether | 101-55-3 | 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 | 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 | ND (0.0009) U | ND (0.001) U |
| 4-chloroaniline | 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 | ND (0.0009) U | ND (0.001) U |
| 4-chlorophenyl phenyl ether | 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 (0.0009) U | ND (0.001) U |
| 4-methylphenol | 106-44-5 | mg/L | ND (0.003) U | 0.018 (0.003) | 0.018 (0.003) | ND (0.003) U | 0.009 (0.003) J | 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 | ND (0.002) U |
| 4-nitrophenol | 100-02-7 | mg/L | ND (0.010) U | ND (0.009) U | ND (0.010) U | ND (0.010) U | ND (0.011) U | ND (0.009) U | ND (0.010) U |
| acenaphthene | 83-32-9 | mg/L | 0.002 (0.001) J | 0.25 (0.095) J | 0.22 (0.095) J | 0.002 (0.001) J | 0.019 (0.001) | 0.1 (0.0009) | 0.002 (0.001) J |
| acenaphthylene | 208-96-8 | mg/L | ND (0.002) U | 0.029 (0.002) | 0.026 (0.002) | ND (0.002) U | ND (0.002) U | 0.007 (0.002) J | ND (0.002) U |
| anthracene | 120-12-7 | mg/L | 0.002 (0.001) J | 0.009 (0.001) J | 0.007 (0.001) J | ND (0.001) U | ND (0.001) U | 0.006 (0.0009) J | ND (0.001) U |
| benzo (a) anthracene | 56-55-3 | mg/L | 0.002 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.001 (0.0009) J | ND (0.001) U |
| benzo (a) pyrene | 50-32-8 | mg/L | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.0009) 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 (0.0009) U | ND (0.001) U |
| benzo (ghi) 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 (0.0009) 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 (0.0009) U | ND (0.001) U |
| bis (2-chloroethoxy) methane | 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 | ND (0.0009) U | ND (0.001) U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.0009) U | ND (0.001) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/L | 0.042 (0.002) U* | 0.004 (0.002) U* | 0.003 (0.002) U* | ND (0.002) U | 0.017 (0.002) U* | 0.007 (0.002) U* | 0.002 (0.002) U* |
| butyl benzyl phthalate | 85-68-7 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) U | 0.002 (0.002) (c,d) | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| carbazole | 86-74-8 | mg/L | ND (0.001) U | 0.36 (0.095) J | 0.37 (0.095) J | 0.002 (0.001) J | 0.003 (0.001) J | 0.084 (0.0009) J | 0.005 (0.001) J |
| chrysene | 218-01-9 | mg/L | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.001 (0.0009) J | ND (0.001) U |
| di-n-butyl phthalate | 84-74-2 | mg/L | 0.005 (0.002) U* (c) | 0.003 (0.002) J (c) | 0.004 (0.002) J (c) | 0.003 (0.002) J (c) | 0.004 (0.002) J (c) | 0.004 (0.002) J (c) | ND (0.002) U |
| di-n-octyl phthalate | 117-84-0 | mg/L | 0.006 (0.002) J (c) | ND (0.002) U | ND (0.002) U | ND (0.002) U | 0.005 (0.002) U* (c) | ND (0.002) U | ND (0.002) U |
| dibenz (a,h) anthracene | 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 | ND (0.0009) U | ND (0.001) U |
| dibenzofuran | 132-64-9 | mg/L | 0.002 (0.001) J | 0.21 (0.095) J | 0.14 (0.001) | 0.002 (0.001) J | 0.03 (0.001) | 0.087 (0.0009) | 0.003 (0.001) J |
| diethyl phthalate | 84-66-2 | mg/L | 0.005 (0.002) J | ND (0.002) U | 0.004 (0.002) J | ND (0.002) U | 0.003 (0.002) J | 0.006 (0.002) J | ND (0.002) U |
| dimethyl phthalate | 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 | ND (0.002) U | ND (0.002) U |
| fluoranthene | 206-44-0 | mg/L | 0.006 (0.001) J | 0.002 (0.001) J | 0.001 (0.001) J | ND (0.001) U | 0.001 (0.001) J | 0.006 (0.0009) J | ND (0.001) U |
| fluorene | 86-73-7 | mg/L | 0.003 (0.001) J | 0.13 (0.001) | 0.11 (0.001) | 0.001 (0.001) J | 0.015 (0.001) | 0.046 (0.0009) | 0.003 (0.001) J |
| 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 | 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 | ND (0.002) U |
| hexachlorocyclopentadiene | 77-47-4 | mg/L | ND (0.005) U | ND (0.005) U | ND (0.005) U | 0.002 (0.005) (d) | ND (0.005) U | ND (0.005) U | ND (0.005) UJ |
| hexachloroethane | 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 | ND (0.0009) 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 (0.0009) U | ND (0.001) U |
| isophorone | 78-59-1 | mg/L | ND (0.001) U | ND (0.001) U | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.0009) U | ND (0.001) U |
| N-nitrosodi-n-propylamine | 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 (0.0009) U | ND (0.001) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.0009) U | ND (0.001) U |
| naphthalene | 91-20-3 | mg/L | 0.004 (0.001) J | 12 (0.095) | 11 (0.095) | 0.001 (0.001) J | 0.12 (0.001) | 0.71 (0.005) | 0.009 (0.001) J |
| 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 | ND (0.0009) U | ND (0.001) U |
| pentachlorophenol | 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 | ND (0.003) U | ND (0.003) U |
| phenanthrene | 85-01-8 | mg/L | 0.007 (0.001) J | 0.088 (0.001) | 0.067 (0.001) | ND (0.001) U | 0.017 (0.001) | 0.057 (0.0009) | 0.004 (0.001) J |
| phenol | 108-95-2 | mg/L | 0.004 (0.001) J | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | 0.008 (0.001) J | 0.003 (0.0009) J | 0.001 (0.001) J |
| pyrene | 129-00-0 | mg/L | 0.006 (0.001) J | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | 0.001 (0.001) J | 0.009 (0.0009) | 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 CPT-07-GW.
(b) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270.
(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.
(d) 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.
U* 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 4-2
(Continued)

Semivolatile 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: CPT-21-GW | CPT-22-GW | GEO-16-GW | GEO-17-GW | GEO-17 (Duplicate) (a) | CPT-18-GW | GEO-19-GW | GEO-20-GW |
|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| 1,2-dichlorobenzene | 95-50-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| 1,3-dichlorobenzene | 541-73-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| 1,4-dichlorobenzene | 106-46-7 | µg/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 | ND (0.001) U | ND (0.001) U |
| 2,2'oxybis (1-chloropropane) | 108-60-1 | µg/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 | ND (0.002) U | ND (0.002) U |
| 2,4,5-trichlorophenol | 95-95-4 | µg/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 | ND (0.002) U | ND (0.002) U |
| 2,4,6-trichlorophenol | 88-06-2 | µg/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 | ND (0.002) U | ND (0.002) U |
| 2,4-dichlorophenol | 120-83-2 | µg/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 | ND (0.001) U | ND (0.001) U |
| 2,4-dimethylphenol | 105-67-9 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.011 (0.001) | ND (0.001) U | 0.014 (0.001) | ND (0.001) U |
| 2,4-dinitrophenol | 51-28-5 | µg/L | ND (0.015) U | ND (0.014) U | ND (0.015) U | ND (0.015) U | ND (0.015) U | ND (0.015) U | ND (0.016) U | ND (0.015) U |
| 2,4-dinitrotoluene | 121-14-2 | µg/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 | ND (0.001) U | ND (0.001) U |
| 2,6-dinitrotoluene | 606-20-2 | µg/L | 0.003 (0.002) J | 0.006 (0.002) J | 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-chloronaphthalene | 91-58-7 | µg/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 | ND (0.001) U | ND (0.001) U |
| 2-chlorophenol | 95-57-8 | µg/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 | ND (0.001) U | ND (0.001) U |
| 2-methylnaphthalene | 91-57-6 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.73 (0.200) J | 0.59 (0.097) J | ND (0.001) U | 0.13 (0.001) | ND (0.001) U |
| 2-methylphenol | 95-48-7 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.001 (0.001) J | ND (0.001) U | 0.003 (0.001) J | ND (0.001) U |
| 2-nitroaniline | 88-74-4 | µg/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 | ND (0.002) U | ND (0.002) U |
| 2-nitrophenol | 88-75-5 | µg/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 | ND (0.001) U | ND (0.001) U |
| 3,3'-dichlorobenzidine | 91-94-1 | µg/L | ND (0.005) U | ND (0.005) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.005) U | ND (0.002) U | ND (0.002) U |
| 3-nitroaniline | 99-09-2 | µg/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 | ND (0.002) U | ND (0.002) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | µg/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 | ND (0.005) U | ND (0.005) U |
| 4-bromophenyl phenyl ether | 101-55-3 | µg/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 | ND (0.002) U | ND (0.002) U |
| 4-chloro-3-methylphenol | 59-50-7 | µg/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 | ND (0.001) U | ND (0.001) U |
| 4-chloroaniline | 106-47-8 | µg/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 | ND (0.001) U | ND (0.001) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | µg/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 | ND (0.001) U | ND (0.001) U |
| 4-methylphenol | 106-44-5 | µg/L | ND (0.003) U | ND (0.003) U | ND (0.003) U | 0.01 (0.003) J | ND (0.003) U | ND (0.003) U | ND (0.003) U | ND (0.003) U |
| 4-nitroaniline | 100-01-6 | µg/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 | ND (0.002) U | ND (0.002) U |
| 4-nitrophenol | 100-02-7 | µg/L | ND (0.010) U | ND (0.009) U | ND (0.010) U | ND (0.010) U | ND (0.010) U | ND (0.010) U | ND (0.011) U | ND (0.010) U |
| acenaphthene | 83-32-9 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.34 (0.200) J | 0.32 (0.097) J | 0.001 (0.001) J | 0.14 (0.001) | ND (0.001) U |
| acenaphthylene | 208-96-8 | µg/L | ND (0.002) U | ND (0.002) U | ND (0.001) U | 0.02 (0.001) | 0.015 (0.001) | ND (0.002) U | 0.009 (0.001) J | ND (0.001) U |
| anthracene | 120-12-7 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.04 (0.001) | 0.03 (0.001) | ND (0.001) U | 0.026 (0.001) | ND (0.001) U |
| benzo (a) anthracene | 56-55-3 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.01 (0.001) | 0.007 (0.001) J | ND (0.001) U | 0.017 (0.001) | ND (0.001) U |
| benzo (a) pyrene | 50-32-8 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.01 (0.001) J | 0.003 (0.001) J | ND (0.001) U | 0.008 (0.001) J | ND (0.001) U |
| benzo (b) fluoranthene | 205-99-2 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.01 (0.001) J | 0.004 (0.001) J | ND (0.001) U | 0.013 (0.001) | ND (0.001) U |
| benzo (ghi) perylene | 191-24-2 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0 (0.001) J | 0.001 (0.001) J | ND (0.001) U | 0.003 (0.001) J | ND (0.001) U |
| benzo (k) fluoranthene | 207-08-9 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0 (0.001) J | 0.002 (0.001) J | ND (0.001) U | 0.004 (0.001) J | ND (0.001) U |
| bis (2-chloroethoxy) methane | 111-91-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| bis (2-chloroethyl) ether | 111-44-4 | µg/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 | ND (0.001) U | ND (0.001) U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | µg/L | 0.019 (0.002) U* | 0.01 (0.002) U* | ND (0.002) U | ND (0.002) U | ND (0.002) U | 0.007 (0.002) J | ND (0.002) U | ND (0.002) U |
| butyl benzyl phthalate | 85-68-7 | µg/L | 0.002 (0.002) (c,d) | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| carbazole | 86-74-8 | µg/L | 0.002 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.2 (0.097) JD | 0.002 (0.001) J | 0.077 (0.001) | ND (0.001) U |
| chrysene | 218-01-9 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.01 (0.001) | 0.005 (0.001) J | ND (0.001) U | 0.015 (0.001) | ND (0.001) U |
| di-n-butyl phthalate | 84-74-2 | µg/L | 0.003 (0.002) J (d) | 0.005 (0.002) J (d) | ND (0.002) U | ND (0.002) U | ND (0.002) U | 0.002 (0.002) J (d) | ND (0.002) U | ND (0.002) U |
| di-n-octyl phthalate | 117-84-0 | µg/L | 0.004 (0.002) U* (d) | 0.003 (0.002) U* (d) | ND (0.002) U | ND (0.002) U | ND (0.002) U | 0.003 (0.002) J (d) | ND (0.002) U | ND (0.002) U |
| dibenz (a,h) anthracene | 53-70-3 | µg/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 | 0.001 (0.001) J | ND (0.001) U |
| dibenzofuran | 132-64-9 | µg/L | ND (0.001) U | 0.001 (0.001) J | ND (0.001) U | 0.22 (0.200) J | 0.22 (0.097) J | 0.002 (0.001) J | 0.048 (0.001) | ND (0.001) U |
| diethyl phthalate | 84-66-2 | µg/L | 0.002 (0.002) J | 0.008 (0.002) J | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| dimethyl phthalate | 131-11-3 | µg/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 | ND (0.002) U | ND (0.002) U |
| fluoranthene | 206-44-0 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.08 (0.001) | 0.047 (0.001) | ND (0.001) U | 0.1 (0.001) | ND (0.001) U |
| fluorene | 86-73-7 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.22 (0.200) J | 0.2 (0.097) J | 0.002 (0.001) J | 0.067 (0.001) | ND (0.001) U |
| hexachlorobenzene | 118-74-1 | µg/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 | ND (0.002) U | ND (0.002) U |
| hexachlorobutadiene | 87-68-3 | µg/L | 0.002 (0.002) (c) | ND (0.002) U | 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 | µg/L | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ | ND (0.005) UJ |
| hexachloroethane | 67-72-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0 (0.001) J | 0.001 (0.001) J | ND (0.001) U | 0.004 (0.001) J | ND (0.001) U |
| isophorone | 78-59-1 | µg/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 | ND (0.001) U | ND (0.001) U |
| N-nitrosodi-n-propylamine | 621-64-7 | µg/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 | ND (0.001) U | ND (0.001) U |
| N-nitrosodiphenylamine | 86-30-6 | µg/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 | ND (0.001) U | ND (0.001) U |
| naphthalene | 91-20-3 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 8.8 (0.200) | 5.5 (0.097) | 0.001 (0.001) J | 1.9 (0.022) | ND (0.001) U |
| nitrobenzene | 98-95-3 | µg/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 | ND (0.001) U | ND (0.001) U |
| pentachlorophenol | 87-86-5 | µg/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 | ND (0.003) U | ND (0.003) U |
| phenanthrene | 85-01-8 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.31 (0.200) J | 0.28 (0.097) J | 0.004 (0.001) J | 0.14 (0.001) | ND (0.001) U |
| phenol | 108-95-2 | µg/L | 0.001 (0.001) J | 0.004 (0.001) J | 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 | µg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.05 (0.001) | 0.03 (0.001) | ND (0.001) U | 0.076 (0.001) | 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 GEO-21-GW.

(b) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270.

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

(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 not detected.

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

U* 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.

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 4-2
(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 | Units | Sample Identifier MW-10 | MW-11 | MW-12 | MW-13 | MW-13 (Duplicate) (b) |
|---|---|---|---|---|---|---|---|
| *TCL Volatile Organics (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 | 75-35-4 | 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 |
| Chlorobenzene | 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 | 156-59-0 | 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 | 75-01-4 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| Xylene (Total) | 1330-20-7 | mg/L | ND (0.001) U | ND (0.001) U | 0.004 (0.001) 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.
U qualifier denotes not detected.
J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.
R qualifier denotes unusable result identified during data validation quality assurance review; analyte may or may not be present in the sample.

**Table 4-2**
**(Continued)**

**Semivolatile Organic Compound Data Summary**
**Ground Water Monitoring Samples**
**Phase II Remedial Investigation**

**Gulf Coast Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier MW-01 | MW-03 | MW-04 | MW-05 | MW-06 | MW-07 | MW-08 |
|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | 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 | 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 | 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 | ND (0.001) U |
| 1,4-dichlorobenzene | 106-46-7 | 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 | ND (0.001) U |
| 2,2'oxybis(1-chloropropane) | 108-60-1 | 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 | ND (0.002) U |
| 2,4,5-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 | 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 | 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 | 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 | 0.048 (0.001) | ND (0.001) U | ND (0.001) U |
| 2,4-dinitrophenol | 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 | 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 | 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 | 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 | 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 | 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 | 0.033 (0.001) | 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 | 0.035 (0.001) | 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 | 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 | 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 | 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 | ND (0.002) U |
| 4,6-dinitro-2-methylphenol | 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 | ND (0.005) U |
| 4-bromophenylphenylether | 101-55-3 | 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 | 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 | ND (0.001) U | ND (0.001) U |
| 4-chloroaniline | 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 | ND (0.001) U | ND (0.001) 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 | 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 | 0.009 (0.003) J | 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 | 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 | ND (0.010) U |
| acenaphthene | 83-32-9 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.023 (0.001) | ND (0.001) U | ND (0.001) U |
| acenaphthylene | 208-96-8 | 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 | 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 | 0.001 (0.001) J | 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 | ND (0.001) U |
| benzo(a)pyrene | 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 | 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 | ND (0.001) U |
| benzo(ghi)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 | 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 | ND (0.001) U |
| bis(2-chloroethoxy)methane | 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 | ND (0.001) U | ND (0.001) U |
| bis(2-chloroethyl)ether | 111-44-4 | 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 | 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 | 0.004 (0.002) J (b) | ND (0.002) 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 | ND (0.002) U | ND (0.002) U |
| carbazole | 86-74-8 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.025 (0.001) | ND (0.001) U | ND (0.001) U |
| chrysene | 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 | 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 | 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 | ND (0.002) U |
| dibenz(a,h)anthracene | 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 | ND (0.001) U | ND (0.001) U |
| dibenzofuran | 132-64-9 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.043 (0.001) | ND (0.001) U | ND (0.001) U |
| diethylphthalate | 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 | 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 | ND (0.002) U | ND (0.002) 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 | ND (0.001) U |
| fluorene | 86-73-7 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.019 (0.001) | 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 | 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 | 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 | ND (0.005) U |
| hexachloroethane | 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 | 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 | 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 | ND (0.001) U |
| N-nitrosodi-n-propylamine | 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 | ND (0.001) U |
| N-nitrosodiphenylamine | 86-30-6 | 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 | ND (0.001) U |
| naphthalene | 91-20-3 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | 0.8 (0.010) | 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 | ND (0.001) U | ND (0.001) U |
| pentachlorophenol | 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 | ND (0.003) U | ND (0.003) U |
| phenanthrene | 85-01-8 | mg/L | ND (0.001) U | 0.002 (0.001) J | ND (0.001) U | ND (0.001) U | 0.013 (0.001) | 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 | 0.008 (0.001) J | 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 | ND (0.001) 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.
(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.
U qualifier denotes not detected.
J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.

**Table 4-2**
**(Continued)**

**Semivolatile Organic Compound Data Summary**
**Ground Water Monitoring Samples**
**Phase II Remedial Investigation**

**Gulf Coast Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: MW-09 | MW-09 (Duplicate) (a) | MW-10 | MW-11 | MW-12 | MW-13 | MW-13 (Duplicate) (b) |
|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (c)* | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | 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 | 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 | 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 | ND (0.001) U |
| 1,4-dichlorobenzene | 106-46-7 | 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 | ND (0.001) U |
| 2,2'oxybis(1-chloropropane) | 108-60-1 | 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 | ND (0.002) U |
| 2,4,5-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 | 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 | 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 | 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 | 0.01 (0.001) J | ND (0.001) U | ND (0.001) U |
| 2,4-dinitrophenol | 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 | ND (0.016) 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 | 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 | 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 | 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 | ND (0.001) U | ND (0.001) U |
| 2-methylnaphthalene | 91-57-6 | mg/L | 0.43 (0.020) | 0.5 (0.030) | ND (0.001) U | ND (0.001) U | 0.004 (0.001) J | 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 | 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 | 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 | 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 | 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 | ND (0.002) U |
| 4,6-dinitro-2-methylphenol | 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 | ND (0.005) U |
| 4-bromophenylphenylether | 101-55-3 | 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 | 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 | ND (0.001) U | ND (0.001) U |
| 4-chloroaniline | 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 | ND (0.001) U | ND (0.001) 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 | 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 | 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 | 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 | ND (0.010) U |
| acenaphthene | 83-32-9 | mg/L | 0.19 (0.020) J | 0.21 (0.030) J | ND (0.001) U | ND (0.001) U | 0.003 (0.001) J | ND (0.001) U | ND (0.001) U |
| acenaphthylene | 208-96-8 | mg/L | 0.007 (0.001) J | 0.008 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| anthracene | 120-12-7 | mg/L | 0.005 (0.001) J | 0.005 (0.001) J | 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 | ND (0.001) U |
| benzo(a)pyrene | 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 | 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 | ND (0.001) U |
| benzo(ghi)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 | 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 | ND (0.001) U |
| bis(2-chloroethoxy)methane | 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 | ND (0.001) U | ND (0.001) U |
| bis(2-chloroethyl)ether | 111-44-4 | 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 | 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 | ND (0.002) 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 | ND (0.002) U | ND (0.002) U |
| carbazole | 86-74-8 | mg/L | 0.11 (0.001) | 0.12 (0.001) | ND (0.001) U | ND (0.001) U | 0.004 (0.001) J | ND (0.001) U | ND (0.001) U |
| chrysene | 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 | 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 | 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 | ND (0.002) U |
| dibenz(a,h)anthracene | 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 | ND (0.001) U | ND (0.001) U |
| dibenzofuran | 132-64-9 | mg/L | 0.12 (0.001) | 0.14 (0.001) | ND (0.001) U | ND (0.001) U | 0.004 (0.001) J | ND (0.001) U | ND (0.001) U |
| diethylphthalate | 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 | 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 | ND (0.002) U | ND (0.002) U |
| fluoranthene | 206-44-0 | mg/L | 0.007 (0.001) J | 0.007 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| fluorene | 86-73-7 | mg/L | 0.093 (0.001) | 0.1 (0.001) | ND (0.001) U | ND (0.001) U | 0.001 (0.001) J | 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 | 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 | 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 | ND (0.005) U |
| hexachloroethane | 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 | 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 | 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 | ND (0.001) U |
| N-nitrosodi-n-propylamine | 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 | ND (0.001) U |
| N-nitrosodiphenylamine | 86-30-6 | 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 | ND (0.001) U |
| naphthalene | 91-20-3 | mg/L | 2.1 (0.020) | 2.4 (0.030) | ND (0.001) U | ND (0.001) U | 0.072 (0.001) | 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 | ND (0.001) U | ND (0.001) U |
| pentachlorophenol | 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 | ND (0.003) U | ND (0.003) U |
| phenanthrene | 85-01-8 | mg/L | 0.052 (0.001) | 0.058 (0.001) | 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 | ND (0.001) U |
| pyrene | 129-00-0 | mg/L | 0.004 (0.001) J | 0.004 (0.001) J | 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 qualifier denotes not detected.
J qualifier 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MW-01 | | | MW-03 | | | MW-04 | | | MW-05 | | | MW-06 | | | MW-07 | | | MW-08 | | | |
| *PAI* | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 83-32-9 | mg/L | ND | (0.000780) | UJ | ND | (0.000780) | U | ND | (0.00079) | U | ND | (0.000800) | UJ | 0.026 | (0.00081) | J | ND | (0.00083) | UJ | ND | (0.00081) | UJ | |
| Acenaphthylene | 208-96-8 | mg/L | ND | (0.000780) | UJ | ND | (0.000780) | U | ND | (0.00079) | U | ND | (0.000800) | UJ | 0.026 | (0.00081) | J | ND | (0.00083) | UJ | ND | (0.00081) | UJ | |
| Anthracene | 120-12-7 | mg/L | ND | (0.000030) | UJ | 0.000178 | (0.000030) | J | 0.000031 | (0.000030) | U | ND | (0.000031) | UJ | 0.00075 | (0.000031) | J | ND | (0.000032) | UJ | ND | (0.000031) | UJ | |
| Benzo(a)anthracene | 56-55-3 | mg/L | ND | (0.000018) | UJ | 0.00131 | (0.000017) | | ND | (0.000018) | U | 0.000018 | (0.000018) | J | ND | (0.000018) | UJ | ND | (0.000019) | UJ | ND | (0.000018) | UJ | |
| Benzo(a)pyrene | 50-32-8 | mg/L | ND | (0.000021) | UJ | ND | (0.000021) | U | ND | (0.000022) | U | 0.000032 | (0.000022) | J | ND | (0.000022) | UJ | ND | (0.000023) | UJ | ND | (0.000022) | UJ | |
| Benzo(b)fluoranthene | 205-99-2 | mg/L | ND | (0.000034) | UJ | ND | (0.000034) | U | ND | (0.000034) | U | 0.000047 | (0.000035) | J | ND | (0.000035) | UJ | ND | (0.000036) | UJ | ND | (0.000036) | UJ | |
| Benzo(g,h,i)perylene | 191-24-2 | mg/L | ND | (0.000097) | UJ | ND | (0.000096) | U | ND | (0.000097) | U | ND | (0.000099) | UJ | ND | (0.000100) | UJ | ND | (0.000100) | UJ | ND | (0.000100) | UJ | |
| Benzo(k)fluoranthene | 207-08-9 | mg/L | ND | (0.000026) | UJ | ND | (0.000026) | U | ND | (0.000027) | U | ND | (0.000027) | UJ | ND | (0.000027) | UJ | ND | (0.000028) | UJ | ND | (0.000027) | UJ | |
| Chrysene | 218-01-9 | mg/L | 0.000067 | (0.000058) | J | 0.0039 | (0.000057) | | 0.000063 | (0.000058) | J | ND | (0.000059) | UJ | ND | (0.000060) | UJ | ND | (0.000061) | UJ | ND | (0.000060) | UJ | |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/L | ND | (0.000046) | UJ | ND | (0.000046) | U | ND | (0.000046) | U | ND | (0.000047) | UJ | ND | (0.000048) | UJ | ND | (0.000049) | UJ | ND | (0.000048) | UJ | |
| Fluoranthene | 206-44-0 | mg/L | ND | (0.000020) | UJ | 0.00038 | (0.000019) | | ND | (0.000020) | U | 0.000074 | (0.000020) | J | 0.00052 | (0.000020) | J | ND | (0.000021) | UJ | ND | (0.000020) | UJ | |
| Fluorene | 86-73-7 | mg/L | ND | (0.000170) | UJ | 0.00099 | (0.000160) | | ND | (0.00017) | U | ND | (0.000170) | UJ | 0.0155 | (0.0034) | J | ND | (0.000180) | UJ | ND | (0.00017) | UJ | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | mg/L | ND | (0.000063) | UJ | ND | (0.000062) | U | ND | (0.000063) | U | ND | (0.000064) | UJ | ND | (0.000065) | UJ | ND | (0.000066) | UJ | ND | (0.000065) | UJ | |
| Naphthalene | 91-20-3 | mg/L | ND | (0.000780) | UJ | ND | (0.000780) | U | ND | (0.00079) | U | ND | (0.000800) | UJ | 0.680 | (0.016) | J | ND | (0.00083) | UJ | ND | (0.00081) | UJ | |
| Phenanthrene | 85-01-8 | mg/L | ND | (0.000045) | UJ | 0.00214 | (0.000045) | | ND | (0.000045) | U | ND | (0.000046) | UJ | 0.00928 | (0.000047) | J | ND | (0.000048) | UJ | ND | (0.000047) | UJ | |
| Pyrene | 129-00-0 | mg/L | 0.00329 | (0.000180) | J | ND | (0.000170) | U | 10.4 | (0.00018) | J (b) | ND | (0.000180) | UJ | ND | (0.000180) | UJ | 0.00142 | (0.000190) | J | ND | (0.000180) | UJ | |

**Notes:**

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

(a) Polynucleated 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.

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 4-2**
**(Continued)**

**PAH Compound Data Summary**
**Ground Water Monitoring Samples**
**Phase II Remedial Investigation**

**Gulf Coast Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: MW-09 | MW-09 (Duplicate) (a) | MW-10 | MW-11 | MW-12 | MW-13 | MW-13 (Duplicate) (b) |
|---|---|---|---|---|---|---|---|---|---|
| *PAH Compounds (c)* | | | | | | | | | |
| Acenaphthene | 83-32-9 | mg/L | 0.230 (0.000800) | 0.220 (0.000800) | ND (0.000820) U | ND (0.000800) U | 0.0033 (0.000820) J | ND (0.000800) UJ | ND (0.000800) UJ |
| Acenaphthylene | 208-96-8 | mg/L | 0.197 (0.000800) | 0.191 (0.000800) | ND (0.000820) U | ND (0.000800) U | 0.00656 (0.000820) J | ND (0.000800) UJ | ND (0.000800) UJ |
| Anthracene | 120-12-7 | mg/L | 0.00417 (0.000031) | 0.00390 (0.000031) | ND (0.000032) U | ND (0.000031) U | 4.2E-05 (0.000032) J | ND (0.000031) UJ | ND (0.000031) UJ |
| Benzo(a)anthracene | 56-55-3 | mg/L | ND (0.000018) U | 0.000186 (0.000018) | ND (0.000018) U | ND (0.000018) U | ND (0.000019) U | ND (0.000018) UJ | ND (0.000018) UJ |
| Benzo(a)pyrene | 50-32-8 | mg/L | ND (0.000022) UJ | 0.000038 (0.000022) J | ND (0.000023) UJ | 0.000024 (0.000022) J | ND (0.000023) UJ | ND (0.000022) UJ | ND (0.000022) UJ |
| Benzo(b)fluoranthene | 205-99-2 | mg/L | 0.000041 (0.000035) J | ND (0.000035) U | ND (0.000036) U | ND (0.000035) U | ND (0.000036) U | ND (0.000035) UJ | ND (0.000035) UJ |
| Benzo(g,h,i)perylene | 191-24-2 | mg/L | ND (0.000099) UJ | ND (0.000099) UJ | ND (0.000100) UJ | ND (0.000098) UJ | ND (0.000100) UJ | ND (0.000099) UJ | ND (0.000100) UJ |
| Benzo(k)fluoranthene | 207-08-9 | mg/L | 0.000037 (0.000027) J | ND (0.000027) U | ND (0.000028) U | ND (0.000027) U | ND (0.000028) U | ND (0.000027) UJ | ND (0.000027) UJ |
| Chrysene | 218-01-9 | mg/L | 0.000224 (0.000059) J | 0.000128 (0.000059) J | ND (0.000061) U | 0.000117 (0.000059) J | ND (0.000061) U | ND (0.000059) UJ | ND (0.000059) UJ |
| Dibenzo(a,h)anthracene | 53-70-3 | mg/L | ND (0.000047) U | ND (0.000047) U | ND (0.000048) U | ND (0.000047) U | ND (0.000048) U | ND (0.000047) UJ | ND (0.000047) UJ |
| Fluoranthene | 206-44-0 | mg/L | 0.00632 (0.000020) | 0.00493 (0.000020) | ND (0.000021) U | ND (0.000020) U | ND (0.000021) U | ND (0.000020) UJ | ND (0.000020) UJ |
| Fluorene | 86-73-7 | mg/L | 0.093 (0.008500) | 0.078 (0.008500) | ND (0.000170) U | ND (0.000170) U | 0.00134 (0.000170) | ND (0.000170) UJ | ND (0.000170) UJ |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | mg/L | ND (0.000064) U | ND (0.000064) U | ND (0.000066) U | ND (0.000064) U | ND (0.000066) U | ND (0.000064) UJ | ND (0.000064) UJ |
| Naphthalene | 91-20-3 | mg/L | 2.200 (0.040000) | 1.810 (0.040000) | ND (0.000820) U | ND (0.000800) U | 0.106 (0.000820) | ND (0.000800) UJ | ND (0.000800) UJ |
| Phenanthrene | 85-01-8 | mg/L | 0.050 (0.002300) | 0.041 (0.002300) | ND (0.000047) U | ND (0.000046) U | 0.00040 (0.000047) | ND (0.000046) UJ | ND (0.000046) UJ |
| Pyrene | 129-00-0 | 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) UJ | 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-23.

(c) Polynucleated Aromatic Hydrocarbons (PAHs) by EPA SW-846 method 8310.

U qualifier denotes not detected.

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

UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher thatn 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 | Units | Sample Identifier SW-02 | SW-03 | SW-04 | SW-06 | SW-07 |
|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | 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 | 106-46-7 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| 2,2'oxybis (1-chloropropane) | 108-60-1 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| 2,4,5-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 | 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 |
| 2,4-dinitrophenol | 51-28-5 | mg/L | ND (0.016) U | ND (0.016) U | ND (0.016) 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 | 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 |
| 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 |
| 4,6-dinitro-2-methylphenol | 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 |
| 4-bromophenyl phenyl ether | 101-55-3 | 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-chloroaniline | 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-chlorophenyl phenyl ether | 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 |
| 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 |
| 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 (0.01) U | ND (0.011) U | ND (0.011) U | ND (0.01) U | ND (0.01) U |
| acenaphthene | 83-32-9 | mg/L | 0.014 (0.001) | 0.009 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| acenaphthylene | 208-96-8 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| anthracene | 120-12-7 | mg/L | 0.013 (0.001) | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| benzo (a) anthracene | 56-55-3 | mg/L | 0.005 (0.001) J | ND (0.001) U | ND (0.001) U | 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 | ND (0.001) U | ND (0.001) U |
| benzo (b) fluoranthene | 205-99-2 | mg/L | 0.012 (0.001) | 0.009 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| benzo (ghi) 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 |
| benzo (k) fluoranthene | 207-08-9 | mg/L | 0.002 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| bis (2-chloroethoxy) methane | 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 |
| bis (2-chloroethyl) ether | 111-44-4 | mg/L | 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 | 0.003 (0.002) J (b) | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| butyl benzyl phthalate | 85-68-7 | mg/L | 0.003 (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 | 0.01 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| chrysene | 218-01-9 | mg/L | 0.006 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| di-n-butyl phthalate | 84-74-2 | mg/L | 0.009 (0.002) U* | ND (0.002) U | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| di-n-octyl phthalate | 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 |
| dibenz (a,h) anthracene | 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 | 132-64-9 | mg/L | 0.011 (0.001) | ND (0.001) U | 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 | ND (0.002) U | ND (0.002) U |
| dimethyl phthalate | 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 |
| fluoranthene | 206-44-0 | mg/L | 0.039 (0.001) | 0.013 (0.001) | 0.012 (0.001) | ND (0.001) U | ND (0.001) U |
| fluorene | 86-73-7 | mg/L | 0.012 (0.001) | 0.011 (0.001) J | 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 |
| 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 | 77-47-4 | mg/L | ND (0.005) U | ND (0.005) U | ND (0.005) U | ND (0.005) U | ND (0.005) U |
| hexachloroethane | 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 | 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 |
| N-nitrosodi-n-propylamine | 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 |
| N-nitrosodiphenylamine | 86-30-6 | 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 | ND (0.001) U | ND (0.001) 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 |
| pentachlorophenol | 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 | 0.017 (0.001) | 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 |
| pyrene | 129-00-0 | mg/L | 0.021 (0.001) | ND (0.001) U | ND (0.001) U | ND (0.001) U | ND (0.001) U |

**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.

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

U* 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 Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier: SW-08 | SW-08 (Duplicate) (a) | SW-09 | SW-10 | SW-11 | CFO (b) |
|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (c)* | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | 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) UJ | 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 (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| 2,2'oxybis (1-chloropropane) | 108-60-1 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | 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) UJ | 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) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| 2,4-dinitrophenol | 51-28-5 | mg/L | ND (0.015) U | ND (0.015) U | ND (0.015) UJ | ND (0.014) U | ND (0.016) U | ND (0.016) U |
| 2,4-dinitrotoluene | 121-14-2 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | 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) UJ | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/L | ND (0.005) U | ND (0.005) U | ND (0.005) UJ | ND (0.005) U | ND (0.005) U | ND (0.005) U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| 4-chloroaniline | 106-47-8 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | 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) UJ | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| 4-nitrophenol | 100-02-7 | mg/L | ND (0.01) U | ND (0.01) U | ND (0.01) UJ | ND (0.01) U | ND (0.011) U | ND (0.01) U |
| acenaphthene | 83-32-9 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| acenaphthylene | 208-96-8 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| benzo (a) anthracene | 56-55-3 | mg/L | 0.001 (0.001) J | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | 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) UJ | 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 | 0.009 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| benzo (ghi) perylene | 191-24-2 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| bis(2-chloroethyl) ether | 111-44-4 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | ND (0.002) U | ND (0.002) U | 0.007 (0.002) J (d) |
| butyl benzyl phthalate | 85-68-7 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | ND (0.002) U | ND (0.002) U | 0.013 (0.002) U* |
| carbazole | 86-74-8 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| chrysene | 218-01-9 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| di-n-butyl phthalate | 84-74-2 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | ND (0.002) U | ND (0.002) U | 0.003 (0.002) U* |
| di-n-octyl phthalate | 117-84-0 | mg/L | ND (0.002) U | ND (0.002) U | 0.006 (0.002) J (d) | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| dibenz (a,h) anthracene | 53-70-3 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| dibenzofuran | 132-64-9 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| dimethyl phthalate | 131-11-3 | mg/L | ND (0.002) U | ND (0.002) U | ND (0.002) UJ | ND (0.002) U | ND (0.002) U | ND (0.002) U |
| fluoranthene | 206-44-0 | mg/L | 0.013 (0.001) | 0.002 (0.001) J | 0.012 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| fluorene | 86-73-7 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | 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) UJ | 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) UJ | ND (0.005) U | ND (0.005) U | ND (0.005) U |
| hexachloroethane | 67-72-1 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| N-nitrosodiphenylamine | 86-30-6 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| naphthalene | 91-20-3 | mg/L | ND (0.001) U | ND (0.001) U | ND (0.001) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| pentachlorophenol | 87-86-5 | mg/L | ND (0.003) U | ND (0.003) U | ND (0.003) UJ | 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) UJ | 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) UJ | ND (0.001) U | ND (0.001) U | ND (0.001) U |
| pyrene | 129-00-0 | mg/L | 0.001 (0.001) J | 0.001 (0.001) J | 0.001 (0.001) J | ND (0.001) U | ND (0.001) U | ND (0.001) U |

**Notes:**

(a) Listed on chain-of-custody documentation as sample SW-12.
(b) Courtesy Ford dealership stormwater outfall.
(c) Target Compound List (TCL) base neutral/acid-extractable organic compounds by EPA SW-846 method 8270.
(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.

ND denotes "Not Detected" at method detection limit shown in parentheses.
U qualifier denotes not detected.
J qualifier denotes quantitation is estimated due to limitations identified during data validation quality assurance review.
U* 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.
UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher thatn the value shown in parentheses due to a bias identified during the data validation 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 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (a)* | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 1,2-dichlorobenzene | 95-50-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 1,3-dichlorobenzene | 541-73-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 1,4-dichlorobenzene | 106-46-7 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND | (0.079) | U | 1.5 | (1) | J | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND | (0.230) | U | ND | (3) | | ND | (0.25) | U | ND | (2.3) | | ND | (0.24) | U | ND | (0.23) | U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.4) | | ND | (0.084) | U | ND | (0.078) | U |
| 2,6-dinitrotoluene | 606-20-2 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | ND | (0.039) | U | 150 | (25) | | 0.44 | (0.043) | | 38 | (0.4) | | 0.091 | (0.042) | J | ND | (0.039) | U |
| 2-methylphenol | 95-48-7 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND | (0.079) | U | ND | (1) | | 0.093 | (0.085) | J | ND | (0.8) | | 0.11 | (0.084) | J | ND | (0.078) | U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 4,6-dinitro-2-methylphenol | 534-52-1 | mg/kg | ND | (0.200) | U | ND | (2.5) | | ND | (0.21) | U | ND | (2) | | ND | (0.21) | U | ND | (0.19) | U |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 4-chlorophenyl phenyl ether | 2005-72-3 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND | (0.200) | U | ND | (2.5) | | ND | (0.21) | U | ND | (2) | | ND | (0.21) | U | ND | (0.19) | U |
| acenaphthene | 83-32-9 | mg/kg | ND | (0.039) | U | 100 | (25) | | 0.89 | (0.043) | | 140 | (20) | J | 0.1 | (0.042) | J | ND | (0.039) | U |
| acenaphthylene | 208-96-8 | mg/kg | ND | (0.039) | U | 35 | (0.51) | | 8.9 | (0.85) | | 5.8 | (0.4) | | 0.17 | (0.042) | J | ND | (0.039) | U |
| anthracene | 120-12-7 | mg/kg | ND | (0.039) | U | 190 | (25) | | 5.5 | (0.85) | J | 3.3 | (0.4) | J | 0.88 | (0.042) | | ND | (0.039) | U |
| benzo (a) anthracene | 56-55-3 | mg/kg | 0.062 | (0.039) | J | 330 | (25) | | 27 | (0.85) | | 100 | (20) | J | 0.93 | (0.042) | | ND | (0.039) | U |
| benzo (a) pyrene | 50-32-8 | mg/kg | 0.056 | (0.039) | J | 130 | (25) | J | 49 | (0.85) | | 33 | (0.4) | | 0.97 | (0.042) | | ND | (0.039) | U |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 0.120 | (0.039) | J | 180 | (25) | J | 78 | (0.85) | | 46 | (0.4) | | 1.4 | (0.042) | | ND | (0.039) | U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 0.046 | (0.039) | J | 36 | (0.51) | | 32 | (0.85) | | 9.5 | (0.4) | | 0.42 | (0.042) | | ND | (0.039) | U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | ND | (0.039) | U | 64 | (0.51) | | 23 | (0.85) | | 18 | (0.4) | | 0.5 | (0.042) | | ND | (0.039) | U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | 0.082 | (0.079) | U* | ND | (1) | | 0.25 | (0.085) | U* | 0.88 | (0.8) | J (c) | 0.15 | (0.084) | U* | ND | (0.078) | U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| carbazole | 86-74-8 | mg/kg | ND | (0.039) | U | 590 | (25) | | 0.97 | (0.043) | | 100 | (20) | J | 0.22 | (0.042) | J | ND | (0.039) | U |
| chrysene | 218-01-9 | mg/kg | 0.077 | (0.039) | J | 290 | (25) | J | 42 | (0.85) | | 76 | (20) | J | 1.3 | (0.042) | | ND | (0.039) | U |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| di-n-octyl phthalate | 117-84-0 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | ND | (0.039) | U | 12 | (0.51) | | 9.6 | (0.85) | | 3.3 | (0.4) | J | 0.15 | (0.042) | J | ND | (0.039) | U |
| dibenzofuran | 132-64-9 | mg/kg | ND | (0.039) | U | 940 | (25) | | 0.48 | (0.043) | | 150 | (20) | J | 0.1 | (0.042) | J | ND | (0.039) | U |
| diethyl phthalate | 84-66-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| fluoranthene | 206-44-0 | mg/kg | 0.089 | (0.039) | J | 160 | (25) | | 21 | (0.85) | | 470 | (20) | | 2 | (0.042) | | ND | (0.039) | U |
| fluorene | 86-73-7 | mg/kg | ND | (0.039) | U | 120 | (25) | | 1 | (0.043) | | 260 | (20) | | 0.18 | (0.042) | J | ND | (0.039) | U |
| hexachlorobenzene | 118-74-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND | (0.200) | U | ND | (2.5) | | ND | (0.21) | U | ND | (2) | | ND | (0.21) | U | ND | (0.19) | U |
| hexachloroethane | 67-72-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| indeno (1,2,3-cd) pyrene | 193-39-5 | mg/kg | 0.049 | (0.039) | J | 47 | (0.51) | | 39 | (0.85) | | 12 | (0.4) | | 0.54 | (0.042) | | ND | (0.039) | U |
| isophorone | 78-59-1 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| naphthalene | 91-20-3 | mg/kg | ND | (0.039) | U | 300 | (25) | | 1.6 | (0.043) | | 14 | (0.4) | | 0.16 | (0.042) | J | ND | (0.039) | U |
| nitrobenzene | 98-95-3 | mg/kg | ND | (0.039) | U | ND | (0.51) | | ND | (0.043) | U | ND | (0.4) | | ND | (0.042) | U | ND | (0.039) | U |
| pentachlorophenol | 87-86-5 | mg/kg | ND | (0.200) | U | ND | (2.5) | | ND | (0.21) | U | ND | (2) | | ND | (0.21) | U | ND | (0.19) | U |
| phenanthrene | 85-01-8 | mg/kg | ND | (0.039) | U | 320 | (25) | | 3.6 | (0.043) | | 870 | (20) | | 0.66 | (0.042) | | ND | (0.039) | U |
| phenol | 108-95-2 | mg/kg | ND | (0.079) | U | ND | (1) | | ND | (0.085) | U | ND | (0.8) | | ND | (0.084) | U | ND | (0.078) | U |
| pyrene | 129-00-0 | mg/kg | 0.110 | (0.039) | J | 100 | (25) | | 32 | (0.85) | | 300 | (20) | | 1.6 | (0.042) | | ND | (0.039) | U |
| *Other Parameters* | | | | | | | | | | | | | | | | | | | | |
| Moisture Content (b) | N.A. | wt. % | 15.1 | (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 (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) 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.

U* 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**

**Gulf Coast Creosoting Site**
**Hattiesburg, Mississippi**

| Analytical Parameter | CAS Registry Number | Units | Sample Identifier SD-07 | | | SD-08 | | | SD-09 | | | SD-09 (Duplicate) (a) | | | SD-10 | | | SD-11 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *TCL Semivolatile Organics (b)* | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trichlorobenzene | 120-82-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 1,2-dichlorobenzene | 95-50-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 1,3-dichlorobenzene | 541-73-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 1,4-dichlorobenzene | 106-46-7 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2,2'-oxybis (1-chloropropane) | 108-60-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2,4,5-trichlorophenol | 95-95-4 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 2,4,6-trichlorophenol | 88-06-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 2,4-dichlorophenol | 120-83-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 2,4-dimethylphenol | 105-67-9 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 2,4-dinitrophenol | 51-28-5 | mg/kg | ND | (0.24) | U | ND | (0.23) | U | ND | (0.22) | U | ND | (0.23) | UJ | ND | (0.23) | U | ND | (0.26) | U |
| 2,4-dinitrotoluene | 121-14-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 2,6-dinitrotoluene | 606-20-2 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2-chloronaphthalene | 91-58-7 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2-chlorophenol | 95-57-8 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2-methylnaphthalene | 91-57-6 | mg/kg | 0.51 | (0.041) | | 0.074 | (0.04) | J | 0.044 | (0.037) | J | 0.055 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| 2-methylphenol | 95-48-7 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2-nitroaniline | 88-74-4 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 2-nitrophenol | 88-75-5 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 3,3'-dichlorobenzidine | 91-94-1 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 3- and 4-methylphenol | 106-44-5 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 3-nitroaniline | 99-09-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| *4,6-dinitro-2-methylphenol* | 534-52-1 | *mg/kg* | *ND* | *(0.2)* | *U* | *ND* | *(0.2)* | *U* | *ND* | *(0.19)* | *U* | *ND* | *(0.19)* | *UJ* | *ND* | *(0.2)* | *U* | *ND* | *(0.23)* | *U* |
| 4-bromophenyl phenyl ether | 101-55-3 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 4-chloro-3-methylphenol | 59-50-7 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 4-chloroaniline | 106-47-8 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 4-chlorophenyl phenyl ether | 7005-72-3 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| 4-nitroaniline | 100-01-6 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| 4-nitrophenol | 100-02-7 | mg/kg | ND | (0.2) | U | ND | (0.2) | U | ND | (0.19) | U | ND | (0.19) | UJ | ND | (0.2) | U | ND | (0.23) | U |
| acenaphthene | 83-32-9 | mg/kg | 0.85 | (0.041) | | 0.18 | (0.04) | J | 0.37 | (0.037) | J | 0.24 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| acenaphthylene | 208-96-8 | mg/kg | 0.078 | (0.041) | J | ND | (0.04) | U | ND | (0.037) | U | 0.057 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| anthracene | 120-12-7 | mg/kg | 0.46 | (0.041) | | 0.26 | (0.04) | J | 0.12 | (0.037) | J | 0.87 | (0.039) | J | 0.054 | (0.04) | J | ND | (0.045) | U |
| benzo (a) anthracene | 56-55-3 | mg/kg | 0.59 | (0.041) | | 0.18 | (0.04) | J | 0.24 | (0.037) | J | 0.37 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| *benzo (a) pyrene* | 50-32-8 | *mg/kg* | 0.39 | (0.041) | J | 0.12 | (0.04) | J | 0.11 | (0.037) | J | 0.23 | (0.039) | J | *ND* | *(0.04)* | *U* | *ND* | *(0.045)* | *U* |
| benzo (b) fluoranthene | 205-99-2 | mg/kg | 0.58 | (0.041) | | 0.17 | (0.04) | J | 0.17 | (0.037) | J | 0.34 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| benzo (ghi) perylene | 191-24-2 | mg/kg | 0.18 | (0.041) | J | 0.065 | (0.04) | J | 0.042 | (0.037) | J | 0.098 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| benzo (k) fluoranthene | 207-08-9 | mg/kg | 0.19 | (0.041) | J | 0.064 | (0.04) | J | 0.05 | (0.037) | J | 0.13 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| bis (2-chloroethoxy) methane | 111-91-1 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| bis (2-chloroethyl) ether | 111-44-4 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| bis (2-ethylhexyl) phthalate | 117-81-7 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | 0.39 | (0.08) | U* | ND | (0.091) | U |
| butyl benzyl phthalate | 85-68-7 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| carbazole | 86-74-8 | mg/kg | 0.57 | (0.041) | | 0.16 | (0.04) | J | ND | (0.037) | U | 0.081 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| chrysene | 218-01-9 | mg/kg | 0.53 | (0.041) | | 0.18 | (0.04) | J | 0.21 | (0.037) | J | 0.61 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| di-n-butyl phthalate | 84-74-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| *di-n-octyl phthalate* | 117-84-0 | *mg/kg* | *ND* | *(0.081)* | *U* | *ND* | *(0.08)* | *U* | *ND* | *(0.075)* | *U* | *ND* | *(0.078)* | *UJ* | *ND* | *(0.08)* | *U* | *ND* | *(0.091)* | *U* |
| dibenz (a,h) anthracene | 53-70-3 | mg/kg | 0.062 | (0.041) | J | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| dibenzofuran | 132-64-9 | mg/kg | 0.41 | (0.041) | | 0.13 | (0.04) | J | 0.21 | (0.037) | J | 0.18 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| diethyl phthalate | 84-66-2 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| dimethyl phthalate | 131-11-3 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| fluoranthene | 206-44-0 | mg/kg | 1.7 | (0.041) | | 0.68 | (0.04) | | 0.87 | (0.037) | | 1.1 | (0.039) | J | 0.1 | (0.04) | J | ND | (0.045) | U |
| fluorene | 86-73-7 | mg/kg | 0.62 | (0.041) | | 0.23 | (0.04) | J | 0.34 | (0.037) | J | 0.3 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| hexachlorobenzene | 118-74-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| hexachlorobutadiene | 87-68-3 | mg/kg | ND | (0.081) | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| hexachlorocyclopentadiene | 77-47-4 | mg/kg | ND | (0.2) | U | ND | (0.2) | U | ND | (0.19) | U | ND | (0.19) | UJ | ND | (0.2) | U | ND | (0.23) | U |
| hexachloroethane | 67-72-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| *indeno (1,2,3-cd) pyrene* | 193-39-5 | *mg/kg* | *0.22* | *(0.041)* | *J* | *0.069* | *(0.04)* | *J* | *0.051* | *(0.037)* | *J* | *0.12* | *(0.039)* | *J* | *ND* | *(0.04)* | *U* | *ND* | *(0.045)* | *U* |
| isophorone | 78-59-1 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| N-nitrosodi-n-propylamine | 621-64-7 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| N-nitrosodiphenylamine | 86-30-6 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| naphthalene | 91-20-3 | mg/kg | 1.1 | (0.041) | | 0.18 | (0.04) | J | 0.18 | (0.037) | J | 0.24 | (0.039) | J | ND | (0.04) | U | ND | (0.045) | U |
| nitrobenzene | 98-95-3 | mg/kg | ND | (0.041) | U | ND | (0.04) | U | ND | (0.037) | U | ND | (0.039) | UJ | ND | (0.04) | U | ND | (0.045) | U |
| pentachlorophenol | 87-86-5 | mg/kg | ND | (0.2) | U | ND | (0.2) | U | ND | (0.19) | U | ND | (0.19) | UJ | ND | (0.2) | U | ND | (0.23) | U |
| phenanthrene | 85-01-8 | mg/kg | 1.7 | (0.041) | | 0.72 | (0.04) | | 0.5 | (0.037) | | 0.89 | (0.039) | J | 0.12 | (0.04) | J | ND | (0.045) | U |
| phenol | 108-95-2 | mg/kg | ND | 0.000081 | U | ND | (0.08) | U | ND | (0.075) | U | ND | (0.078) | UJ | ND | (0.08) | U | ND | (0.091) | U |
| pyrene | 129-00-0 | mg/kg | 1.4 | (0.041) | V | 0.48 | (0.04) | | 0.72 | (0.037) | | 0.75 | (0.039) | J | 0.079 | (0.04) | J | ND | (0.045) | U |
| *Other Parameters* | | | | | | | | | | | | | | | | | | | | |
| Moisture Content(c) | N.A. | wt.% | 18 L | (0.08) | | 16.7 | (0.08) | | 10.6 | (0.08) | | 14.0 | (0.08) | | 16.6 | (0.08) | | 26.5 | (0.08) | |

**Notes:**
ND denotes "Not Detected" at method detection limit shown in parentheses.
(a) Listed on chain-of-custody documentation as sample SD-12.
(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 data validation quality assurance review.
U* 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.
UJ qualifier denotes that the compound was not detected, but the quantitation limit may or may not be higher thatn the value shown in parentheses due to a bias identified during the data validation quality assurance review.