# APPENDIX G.2.4

# OIL PIT AND SURFACE SLUDGES

TABLE 4A

ANALYTICAL RESULTS OF OIL DISPOSAL AREA SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-OSPT-01 Comp.
SAMPLE COLLECTION DATE: 11/28/90
SAMPLE AREA(S) REPRESENTED: 11

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| pH | 7.2 | NA | +/- 0.2 | <=2 OR >=12.5 | pH |
| Cyanide, Reactive | BDL | U | 0.46 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | U | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 5 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 100 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 40 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | 180 | | 60 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 40 | 500 | UG/L |
| Chlorobenzene | BDL | U | 40 | 100000 | UG/L |
| Chloroform | BDL | U | 40 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 100 | 700 | UG/L |
| Trichloroethene | 720 | | 40 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 49 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 100 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 65 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 43 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 100 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 29 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 140 | 500 | UG/L |
| Hexachloroethane | BDL | U | 180 | 3000 | UG/L |
| meta & para-cresol | 27 | J | 47 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 52 | 2000 | UG/L |
| ortho-cresol | BDL | U | 45 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 140 | 100000 | UG/L |
| Pyridine | BDL | U | 1100 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.018 | 5 | mg/L |
| Barium, TCLP Leachate | BDL | U | 0.059 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | U | 0.024 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 4A

ANALYTICAL RESULTS OF OIL DISPOSAL AREA SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-OSPT-01 Comp.
SAMPLE COLLECTION DATE: 11/28/90
SAMPLE AREA(S) REPRESENTED: 11

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | BDL | U | 0.06 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | UJ | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | UJ | 0.047 | 5 | mg/L |
| **Pesticides/PCBs, Total** | | | | | |
| 4,4'-DDD | BDL | U | 2000 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 2000 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 2000 | NA | UG/KG |
| Aldrin | BDL | U | 990 | NA | UG/KG |
| Alpha-BHC | BDL | U | 990 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 9900 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 20000 | NA | UG/KG |
| Beta-BHC | BDL | U | 990 | NA | UG/KG |
| Delta-BHC | BDL | U | 990 | NA | UG/KG |
| Dieldrin | BDL | U | 2000 | NA | UG/KG |
| Endosulfan I | BDL | U | 990 | NA | UG/KG |
| Endosulfan II | BDL | U | 2000 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 2000 | NA | UG/KG |
| Endrin | BDL | U | 2000 | NA | UG/KG |
| Endrin ketone | BDL | U | 2000 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 990 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 9900 | NA | UG/KG |
| Heptachlor | BDL | U | 990 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 990 | NA | UG/KG |
| Methoxychlor | BDL | U | 9900 | NA | UG/KG |
| Toxaphene | BDL | U | 20000 | NA | UG/KG |
| **PCBs, Total** | | | | | |
| Aroclor-1016 | BDL | U | 990 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 990 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 990 | NA | UG/KG |
| Aroclor-1242 | 3100 | | 990 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 990 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 2000 | NA | UG/KG |
| Aroclor-1260 | 2700 | | 2000 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 4B

ANALYTICAL RESULTS OF OIL DISPOSAL AREA SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-OSSW-01 Comp.
SAMPLE COLLECTION DATE: 11/28/90
SAMPLE AREA(S) REPRESENTED: 11

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| pH | 7.8 | NA | +/- 0.2 | <=2 OR >=12.5 | pH |
| Cyanide, Reactive | BDL | u | 0.49 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | 7.9 | | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 100 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 40 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 62 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 40 | 500 | UG/L |
| Chlorobenzene | BDL | U | 40 | 100000 | UG/L |
| Chloroform | BDL | U | 41 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 100 | 700 | UG/L |
| Trichloroethene | BDL | U | 42 | 500 | UG/L |
| VinylChloride | BDL | U | 54 | NA | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 96 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 82 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 58 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 45 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 29 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 160 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | 52 | J | 130 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 47 | 2000 | UG/L |
| ortho-cresol | BDL | U | 110 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 110 | 100000 | UG/L |
| Pyridine | BDL | U | 1100 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | u | 0.019 | 5 | mg/L |
| Barium, TCLP Leachate | 0.659 | | 0.057 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | u | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | u | 0.024 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 4B

ANALYTICAL RESULTS OF OIL DISPOSAL AREA SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-OSSW-01 Comp.
SAMPLE COLLECTION DATE: 11/28/90
SAMPLE AREA(S) REPRESENTED: 11

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | BDL | U | 0.06 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.047 | 5 | mg/L |
| **Pesticides/PCBs, Total** | | | | | |
| 4,4'-DDD | BDL | U | 4000 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 4000 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 4000 | NA | UG/KG |
| Aldrin | BDL | U | 2000 | NA | UG/KG |
| Alpha-BHC | BDL | U | 2000 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 20000 | NA | UG/KG |
| Aroclor-1248 | 15000 | J | 20000 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 40000 | NA | UG/KG |
| Aroclor-1260 | 39000 | J | 40000 | NA | UG/KG |
| Beta-BHC | BDL | U | 2000 | NA | UG/KG |
| Delta-BHC | BDL | U | 2000 | NA | UG/KG |
| Dieldrin | BDL | U | 4000 | NA | UG/KG |
| Endosulfan I | BDL | U | 2000 | NA | UG/KG |
| Endosulfan II | BDL | U | 4000 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 4000 | NA | UG/KG |
| Endrin | BDL | U | 4000 | NA | UG/KG |
| Endrin ketone | BDL | U | 4000 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 2000 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 20000 | NA | UG/KG |
| Heptachlor | BDL | U | 2000 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 2000 | NA | UG/KG |
| Methoxychlor | BDL | U | 20000 | NA | UG/KG |
| Toxaphene | BDL | U | 40000 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6A

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-01 Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 2,4,5,6

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 64.2 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.76 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| pH | 7.9 | NA | +/- 0.2 | <=2 OR >=12.5 | pH |
| Sulfide Reactive | BDL | U | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0.00 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | 700 | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | NA | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 130 | UG/KG |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | NA | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 200000 | UG/L |
| Nitrobenzene | BDL | U | 43 | NA | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 0.422 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6A

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-01 Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 2,4,5,6

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Chromium, TCLP Leachate | BDL | U | 0.023 | 5 | mg/L |
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | UJ | 0.044 | NA | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 120 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 120 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 120 | NA | UG/KG |
| Aldrin | BDL | U | 61 | NA | UG/KG |
| Alpha-BHC | BDL | U | 61 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 610 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 610 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 610 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 610 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 610 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 610 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 1200 | NA | UG/KG |
| Beta-BHC | BDL | U | 61 | NA | UG/L |
| Delta-BHC | BDL | U | 61 | NA | UG/KG |
| Dieldrin | BDL | U | 120 | NA | UG/KG |
| Endosulfan I | BDL | U | 61 | NA | UG/KG |
| Endosulfan II | BDL | U | 120 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 120 | NA | UG/KG |
| Endrin | BDL | U | 120 | NA | UG/KG |
| Endrin ketone | BDL | U | 120 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 61 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 610 | NA | UG/KG |
| Heptachlor | BDL | U | 61 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 61 | NA | UG/KG |
| Methoxychlor | BDL | U | 610 | NA | UG/KG |
| Toxaphene | BDL | U | 1200 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6B

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-02 Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 12,16,20,27A,31A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 68.9 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.68 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| pH | 7.2 | NA | +/- 0.2 | <=2 OR >=12.5 | pH |
| Sulfide Reactive | BDL | U | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2.4-Dinitrotoluene | BDL | U | 31 | NA | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 1.56 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | 0.016 | | 0.005 | 1 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6B

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-02 Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 12,16,20,27A,31A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Chromium, TCLP Leachate | 0.029 | | 0.023 | 5 | mg/L |
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 230 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 230 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 230 | NA | UG/KG |
| Aldrin | BDL | U | 120 | NA | UG/KG |
| Alpha-BHC | BDL | U | 120 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 1200 | NA | UG/KG |
| Aroclor-1254 | 6500 | | 2300 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 2300 | NA | UG/KG |
| Beta-BHC | BDL | U | 120 | NA | UG/KG |
| Delta-BHC | BDL | U | 120 | NA | UG/KG |
| Dieldrin | BDL | U | 230 | NA | UG/KG |
| Endosulfan I | BDL | U | 120 | NA | UG/KG |
| Endosulfan II | BDL | U | 230 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 230 | NA | UG/KG |
| Endrin | BDL | U | 230 | NA | UG/KG |
| Endrin ketone | BDL | U | 230 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 120 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 1200 | NA | UG/KG |
| Heptachlor | BDL | U | 120 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 120 | NA | UG/KG |
| Methoxychlor | BDL | U | 1200 | NA | UG/KG |
| Toxaphene | BDL | U | 2300 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6C

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-02D Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 12,16,20,27A,31A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 61.7 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | u | 0.79 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| pH | 7.2 | NA | +/- 0.2 | <=2 OR >=12.5 | pH |
| Sulfide Reactive | BDL | u | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | u | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 1.43 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | u | 0.005 | 1 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6C

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA-02D Comp.
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 12,16,20,27A,31A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Chromium, TCLP Leachate | 0.069 | | 0.023 | 5 | mg/L |
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 260 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 260 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 260 | NA | UG/KG |
| Aldrin | BDL | U | 130 | NA | UG/KG |
| Alpha-BHC | BDL | U | 130 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 1300 | NA | UG/KG |
| Aroclor-1254 | 8400 | | 2600 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 2600 | NA | UG/KG |
| Beta-BHC | BDL | U | 130 | NA | UG/KG |
| Delta-BHC | BDL | U | 130 | NA | UG/KG |
| Dieldrin | BDL | U | 260 | NA | UG/KG |
| Endosulfan I | BDL | U | 130 | NA | UG/KG |
| Endosulfan II | BDL | U | 260 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 260 | NA | UG/KG |
| Endrin | BDL | U | 260 | NA | UG/KG |
| Endrin ketone | BDL | U | 260 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 130 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 1300 | NA | UG/KG |
| Heptachlor | BDL | U | 130 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 130 | NA | UG/KG |
| Methoxychlor | BDL | U | 1300 | NA | UG/KG |
| Toxaphene | BDL | U | 2600 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6D

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA03-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 3

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 74.3 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.64 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | U | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | UJ | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 0.59 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6D

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA03-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 3

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Chromium, TCLP Leachate | BDL | U | 0.023 | 5 | mg/L |
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 110 | NA | UG/KG |
| Aldrin | BDL | U | 54 | NA | UG/KG |
| Alpha-BHC | BDL | U | 54 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 540 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 1100 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 1100 | NA | UG/KG |
| Beta-BHC | BDL | U | 54 | NA | UG/KG |
| Delta-BHC | BDL | U | 54 | NA | UG/KG |
| Dieldrin | BDL | U | 110 | NA | UG/KG |
| Endosulfan I | BDL | U | 54 | NA | UG/KG |
| Endosulfan II | BDL | U | 110 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 110 | NA | UG/KG |
| Endrin | BDL | U | 110 | NA | UG/KG |
| Endrin ketone | BDL | U | 110 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 54 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 540 | NA | UG/KG |
| Heptachlor | BDL | U | 54 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 54 | NA | UG/KG |
| Methoxychlor | BDL | U | 540 | NA | UG/KG |
| Toxaphene | BDL | U | 1100 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6E

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA14-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 14

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 66.1 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.75 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | U | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | UJ | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | 0.052 | | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 0.195 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | U | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6E

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA14-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 14

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | 0.233 | | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | 0.0004 | | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| **Pesticides/PCBs, Total** | | | | | |
| 4,4'-DDD | BDL | U | 12000 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 12000 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 12000 | NA | UG/KG |
| Aldrin | BDL | U | 6000 | NA | UG/KG |
| Alpha-BHC | BDL | U | 6000 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 60000 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 120000 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 120000 | NA | UG/KG |
| Beta-BHC | BDL | U | 6000 | NA | UG/KG |
| Delta-BHC | BDL | U | 6000 | NA | UG/KG |
| Dieldrin | BDL | U | 12000 | NA | UG/KG |
| Endosulfan I | BDL | U | 6000 | NA | UG/KG |
| Endosulfan II | BDL | U | 12000 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 12000 | NA | UG/KG |
| Endrin | BDL | U | 12000 | NA | UG/KG |
| Endrin ketone | BDL | U | 12000 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 6000 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 60000 | NA | UG/KG |
| Heptachlor | BDL | U | 6000 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 6000 | NA | UG/KG |
| Methoxychlor | BDL | U | 60000 | NA | UG/KG |
| Toxaphene | BDL | U | 120000 | NA | UG/KG |
| **PCBs, Total** | | | | | |
| Aroclor-1016 | BDL | U | 6000 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 6000 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 6000 | NA | UG/KG |
| Aroclor-1242 | 29000 | | 6000 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 6000 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 12000 | NA | UG/KG |
| Aroclor-1260 | 7900 | J | 12000 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6F

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA21-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 21

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 41.8 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | u | 1.1 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | u | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | UJ | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | 0.037 | | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | BDL | u | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | 0.121 | | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | u | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6F

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA21-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 21

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | BDL | u | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | u | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | u | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | u | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 940 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 940 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 940 | NA | UG/KG |
| Aldrin | BDL | U | 470 | NA | UG/KG |
| Alpha-BHC | BDL | U | 470 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 4700 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 9400 | NA | UG/KG |
| Aroclor-1260 | 9300 | J | 9400 | NA | UG/KG |
| Beta-BHC | BDL | U | 470 | NA | UG/KG |
| Delta-BHC | BDL | U | 470 | NA | UG/KG |
| Dieldrin | BDL | U | 940 | NA | UG/KG |
| Endosulfan I | BDL | U | 470 | NA | UG/KG |
| Endosulfan II | BDL | U | 940 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 940 | NA | UG/KG |
| Endrin | BDL | U | 940 | NA | UG/KG |
| Endrin ketone | BDL | U | 940 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 470 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 4700 | NA | UG/KG |
| Haptachlor | BDL | U | 470 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 470 | NA | UG/KG |
| Methoxychlor | BDL | U | 4700 | NA | UG/KG |
| Toxaphene | BDL | U | 9400 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6G

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA23-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 23

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 73.9 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.64 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | 11.2 | | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | UJ | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 1.1 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | U | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6G

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA23-01
SAMPLE COLLECTION DATE: 11/29/90
SAMPLE AREA(S) REPRESENTED: 23

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 110 | NA | UG/KG |
| Aldrin | BDL | U | 54 | NA | UG/KG |
| Alpha-BHC | BDL | U | 54 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 540 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 540 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 1100 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 1100 | NA | UG/KG |
| Beta-BHC | BDL | U | 54 | NA | UG/KG |
| Delta-BHC | BDL | U | 54 | NA | UG/KG |
| Dieldrin | BDL | U | 110 | NA | UG/KG |
| Endosulfan I | BDL | U | 54 | NA | UG/KG |
| Endosulfan II | BDL | U | 110 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 110 | NA | UG/KG |
| Endrin | BDL | U | 110 | NA | UG/KG |
| Endrin ketone | BDL | U | 110 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 54 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 540 | NA | UG/KG |
| Heptachlor | BDL | U | 54 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 54 | NA | UG/KG |
| Methoxychlor | BDL | U | 540 | NA | UG/KG |
| Toxaphene | BDL | U | 1100 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6H

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA27B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 27B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 90.9 | NA | 0.1 | NA | % |
| Cyanide Reactive | BDL | U | 0.53 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | U | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | U | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | BDL | U | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | U | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | BDL | U | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6H

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA27B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 27B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | BDL | U | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 88 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 88 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 88 | NA | UG/KG |
| Aldrin | BDL | U | 44 | NA | UG/KG |
| Alpha-BHC | BDL | U | 44 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 440 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 440 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 440 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 440 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 440 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 440 | NA | UG/KG |
| Aroclor-1254 | 670 | J | 880 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 880 | NA | UG/KG |
| Beta-BHC | BDL | U | 44 | NA | UG/KG |
| Delta-BHC | BDL | U | 44 | NA | UG/KG |
| Dieldrin | BDL | U | 88 | NA | UG/KG |
| Endosulfan I | BDL | U | 44 | NA | UG/KG |
| Endosulfan II | BDL | U | 88 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 88 | NA | UG/KG |
| Endrin | BDL | U | 88 | NA | UG/KG |
| Endrin ketone | BDL | U | 88 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 44 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 440 | NA | UG/KG |
| Heptachlor | BDL | U | 44 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 44 | NA | UG/KG |
| Methoxychlor | BDL | U | 440 | NA | UG/KG |
| Toxaphene | BDL | U | 880 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6I

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA31B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 31B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 71.4 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | u | 0.7 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | u | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | u | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 1.88 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | BDL | u | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | 0.91 | | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6I

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA31B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 31B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | 0.783 | | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | U | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | U | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | U | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 110 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 110 | NA | UG/KG |
| Aldrin | BDL | U | 55 | NA | UG/KG |
| Alpha-BHC | BDL | U | 55 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 550 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 550 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 550 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 550 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 550 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 550 | NA | UG/KG |
| Aroclor-1254 | 2400 | | 1100 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 1100 | NA | UG/KG |
| Beta-BHC | BDL | U | 55 | NA | UG/KG |
| Delta-BHC | BDL | U | 55 | NA | UG/KG |
| Dieldrin | BDL | U | 110 | NA | UG/KG |
| Endosulfan I | BDL | U | 55 | NA | UG/KG |
| Endosulfan II | BDL | U | 110 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 110 | NA | UG/KG |
| Endrin | BDL | U | 110 | NA | UG/KG |
| Endrin ketone | BDL | U | 110 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 55 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 550 | NA | UG/KG |
| Heptachlor | BDL | U | 55 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 55 | NA | UG/KG |
| Methoxychlor | BDL | U | 550 | NA | UG/KG |
| Toxaphene | BDL | U | 1100 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6J

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA32A-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 32A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 72.4 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | u | 0.66 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | u | 2.5 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| HExachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/L |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | U | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | BDL | u | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 4.85 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | 0.203 | | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | 0.044 | | 0.023 | 5 | mg/L |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6J

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA32A-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 32A

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | 3.08 | | 0.059 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | u | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | u | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | u | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 1100 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 1100 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 1100 | NA | UG/KG |
| Aldrin | BDL | U | 550 | NA | UG/KG |
| Alpha-BHC | BDL | U | 550 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 5500 | NA | UG/KG |
| Aroclor-1254 | BDL | U | 11000 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 11000 | NA | UG/KG |
| Beta-BHC | BDL | U | 550 | NA | UG/KG |
| Delta-BHC | BDL | U | 550 | NA | UG/KG |
| Dieldrin | BDL | U | 1100 | NA | UG/KG |
| Endosulfan I | BDL | U | 550 | NA | UG/KG |
| Endosulfan II | BDL | U | 1100 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 1100 | NA | UG/KG |
| Endrin | BDL | U | 1100 | NA | UG/KG |
| Endrin ketone | BDL | U | 1100 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 550 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 5500 | NA | UG/KG |
| Heptachlor | BDL | U | 550 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 550 | NA | UG/KG |
| Methoxychlor | BDL | U | 5500 | NA | UG/KG |
| Toxaphene | BDL | U | 11000 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

TABLE 6K

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA32B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 32B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| **Physical Parameters** | | | | | |
| % Solids | 84.6 | NA | 0.1 | NA | % |
| Cyanide, Reactive | BDL | U | 0.56 | 250 | mg/kg |
| Flash Point, Closed Cup | >200 | NA | NA | <140 | DEG F |
| Sulfide Reactive | BDL | U | 2.4 | 500 | mg/kg |
| Vol Thru Filter | 0 | NA | NA | NA | mls/100g |
| **VOC-TCLP** | | | | | |
| 1,1-Dichloroethene | BDL | U | 120 | NA | UG/L |
| 1,2-Dichloroethane | BDL | U | 43 | 500 | UG/L |
| 2-Butanone | BDL | U | 200 | 200000 | UG/L |
| Benzene | BDL | U | 70 | 500 | UG/L |
| Carbon Tetrachloride | BDL | U | 43 | 500 | UG/L |
| Chlorobenzene | BDL | U | 43 | 100000 | UG/L |
| Chloroform | BDL | U | 44 | 6000 | UG/L |
| Tetrachloroethene | BDL | U | 120 | 700 | UG/L |
| Trichloroethene | BDL | U | 52 | 500 | UG/L |
| Vinyl Chloride | BDL | U | 50 | 200 | UG/L |
| **Semivolatiles TCLP** | | | | | |
| 1,4-Dichlorobenzene | BDL | U | 91 | 7500 | UG/L |
| 2,4,5-Trichlorophenol | BDL | U | 56 | 400000 | UG/L |
| 2,4,6-Trichlorophenol | BDL | U | 38 | 2000 | UG/L |
| 2,4-Dinitrotoluene | BDL | U | 31 | 130 | UG/L |
| Hexachlorobenzene | BDL | U | 27 | 130 | UG/L |
| Hexachlorobutadiene | BDL | U | 170 | 500 | UG/L |
| Hexachloroethane | BDL | U | 150 | 3000 | UG/L |
| meta & para-cresol | BDL | U | 45 | 400000 | UG/l |
| Nitrobenzene | BDL | U | 43 | 2000 | UG/L |
| ortho-cresol | BDL | U | 42 | 200000 | UG/L |
| Pentachlorophenol | BDL | UJ | 64 | 100000 | UG/L |
| Pyridine | BDL | U | 1000 | 5000 | UG/L |
| **RCRA Metals TCLP** | | | | | |
| Arsenic, TCLP Leachate | 0.029 | | 0.02 | 5 | mg/L |
| Barium, TCLP Leachate | 0.104 | | 0.053 | 100 | mg/L |
| Cadmium, TCLP Leachate | 0.011 | | 0.005 | 1 | mg/L |
| Chromium, TCLP Leachate | 0.024 | | 0.023 | 5 | mg/L |

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TABLE 6K

ANALYTICAL RESULTS OF SURFACE SLUDGE SAMPLES
GENERAL MOTORS-AC ROCHESTER
LINDEN ROAD LANDFILL SITE
INTERIM REMEDIAL MEASURES EVALUATION
NOVEMBER 1990

SAMPLE ID: GM1-SSA32B-01
SAMPLE COLLECTION DATE: 11/30/90
SAMPLE AREA(S) REPRESENTED: 32B

| | PARAMETER VALUE | DATA FLAG | DETECTION LIMIT | RCRA HAZ CRITERIA | UNITS |
|---|---|---|---|---|---|
| Lead, TCLP Leachate | 18.5 | | 0.05 | 5 | mg/L |
| Mercury, TCLP Leachate | BDL | | 0.0003 | 0.2 | mg/L |
| Selenium, TCLP Leachate | BDL | u | 0.011 | 1 | mg/L |
| Silver, TCLP Leachate | BDL | u | 0.044 | 5 | mg/L |
| Pesticides/PCBs, Total | | | | | |
| 4,4'-DDD | BDL | U | 470000 | NA | UG/KG |
| 4,4'-DDE | BDL | U | 470000 | NA | UG/KG |
| 4,4'-DDT | BDL | U | 470000 | NA | UG/KG |
| Aldrin | BDL | U | 230000 | NA | UG/KG |
| Alpha-BHC | BDL | U | 230000 | NA | UG/KG |
| alpha-Chlordane | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1016 | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1221 | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1232 | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1242 | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1248 | BDL | U | 2300000 | NA | UG/KG |
| Aroclor-1254 | 13000000 | | 4700000 | NA | UG/KG |
| Aroclor-1260 | BDL | U | 4700000 | NA | UG/KG |
| Beta-BHC | BDL | U | 230000 | NA | UG/KG |
| Delta-BHC | BDL | U | 230000 | NA | UG/KG |
| Dieldrin | BDL | U | 470000 | NA | UG/KG |
| Endosulfan I | BDL | U | 230000 | NA | UG/KG |
| Endosulfan II | BDL | U | 470000 | NA | UG/KG |
| Endosulfan sulfate | BDL | U | 470000 | NA | UG/KG |
| Endrin | BDL | U | 470000 | NA | UG/KG |
| Endrin ketone | BDL | U | 470000 | NA | UG/KG |
| gamma-BHC (Lindane) | BDL | U | 230000 | NA | UG/KG |
| gamma-Chlordane | BDL | U | 2300000 | NA | UG/KG |
| Heptachlor | BDL | U | 230000 | NA | UG/KG |
| Heptachlor epoxide | BDL | U | 230000 | NA | UG/KG |
| MEthoxychlor | BDL | U | 2300000 | NA | UG/KG |
| Toxaphene | BDL | U | 4700000 | NA | UG/KG |

BDL = BELOW DETECTION LIMIT
J = ESTIMATED VALUE
NA = NOT APPLICABLE
U = ANALYZED FOR, BUT NOT DETECTED
UJ = DETECTED BELOW REPORTING LIMIT, VALUE ESTIMATED

DATA REVIEW SUMMARY

DATE: 1/22/91

UBJECT: DATA REVIEW

PROJECT NAME: GM-AC LINDEN RD

ROJECT MANAGER: BABusukumar

FW #: 90126020 - WET CHEMISTRY /PEST/PCB /TCLP-VOA, METALS, SVOA

LABORATORY: WESTON-GULF COAST

EVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

WET CHEMISTRY - HOLDING TIMES WERE ACCEPTABLE AS NO HOLDING TIMES HAVE BEEN SET FOR WASTE SAMPLES
ALL OTHER CRITERIA WERE ACCEPTABLE

METALS - HOLDING TIMES WERE MET
DUPLICATE RESULTS WERE ACCEPTABLE
MS FOR SILVER, MERCURY & LEAD OUTSIDE LIMITS OF 75-125%
-DATA FLAGGED AS ESTIMATED (J)
BIAS CORRECTION WAS ACCEPTABLE

VOA - HOLDING TIMES WERE MET
SURROGATE RECOVERIES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
MS/MSD - CARBON TETRACHLORIDE, BENZENE & TRICHLOROETHENE OUTSIDE EPA CLP LIMITS ON SAMPLE - SINCE NOT DETECTED NO FLAG-
1,1-DICHLOROETHENE & BENZENE OUTSIDE EPA CLP LIMITS ON BLANK SPIKE
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION WAS ACCEPTABLE

SAM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(✓) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

CONT. CALIBRATION (12/19/90) - 1,1,1-TRICHLOROETHANE; CARBON TETRACHLORIDE; BROMODICHLOROMETHANE; 1,2-DICHLOROPROPANE; CIS-1,3-DICHLOROPROPENE; TRICHLOROETHENE; DIBROMOCHLOROMETHANE; 1,1,2-TRICHLOROETHANE; BENZENE; TRANS-1,3-DICHLOROPROPENE; BROMOFORM; XYLENE - DATA FLAGGED AS ESTIMATED
OR D 25% SM

OTHER CRITERIA WERE ACCEPTABLE

BNA - HOLDING TIMES WERE MET
SURROGATE RECOVERY WAS ACCEPTABLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



CLIENT/SUBJECT GM-AC LINDEN RD. W.O. NO.

TASK DESCRIPTION DATA REVIEW SUMMARY 90126020 TASK NO.

| | | | | |
|---|---|---|---|---|
| PREPARED BY | DEPT | DATE | APPROVED BY | |
| MATH CHECK BY | DEPT | DATE | | |
| METHOD REV. BY | DEPT | DATE | DEPT | DATE |

BLANKS WERE ACCEPTABLE
MS/MSD WERE ACCEPTABLE
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION WAS ACCEPTABLE
CONTINUING CALIBRATION (12/14/90) - 4-CHLOROANILINE; 4-NITROPHENOL; 3,3'-DICHLOROBENZIDINE %D > 25% - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
OTHER CRITERIA WERE ACCEPTABLE

PCB/PEST - HOLDING TIMES WERE MET
BLANKS WERE ACCEPTABLE
SURROGATES WERE ACCEPTABLE FOR BLANK - SAMPLE DILUTED OUT
MS/MSD - DILUTED OUT - BLANK ACCEPTABLE
OTHER CRITERIA WERE ACCEPTABLE

(1)

# DATA REVIEW SUMMARY

DATE: 1/23/91

UBJECT: DATA REVIEW

PROJECT NAME: GM-AC LINDEN RD.

ROJECT MANAGER: BABUSUKUMAR

FW #: 9612G9160 - WET CHEMISTRY/PCB/PEST/TCLP-VOA, METALS, SVOA

LABORATORY: WESTON-GULF COAST

EVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

IET CHEMISTRY - HOLDING TIMES WERE ACCEPTABLE - AS NO HOLDING TIMES HAVE BEEN SET FOR WASTE SAMPLES
NO OTHER QA/QC AVAILABLE

METALS - HOLDING TIMES WERE MET
DUPLICATES WERE ACCEPTABLE
MS FOR SILVER + MERCURY OUTSIDE CONTROL LIMITS - NO FLAG ON DATA
BIAS CORRECTION WAS ACCEPTABLE

VOA - HOLDING TIMES WERE MET
SURROGATE RECOVERY WAS ACCEPTABLE
BLANKS WERE ACCEPTABLE
MS/MSD - VINYLCHLORIDE & 2-BUTANONE OUTSIDE CONTROL LIMITS - NOT DETECTED SO NO FLAG - BS HAD 1,1-DICHLOROETHENE OUTSIDE CONTROL LIMIT - NO FLAG
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION WAS ACCEPTABLE
CONT CALIBRATION - ACETONE & 2-HEXANONE %D > 25% - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
OTHER CRITERIA WERE ACCEPTABLE

SAM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

BNA - HOLDING TIMES WERE MET
SURROGATE RECOVERY - 2-FLUOROPHENOL OUTSIDE CONTROL LIMITS - OTHER SURROGATES ACCEPTABLE - NO FLAG
MS - META & PARA CRESOL OUTSIDE CONTROL LIMITS - NOT DETECTED. SO NO FLAG
BLANKS WERE ACCEPTABLE
GC/MS TUNING WAS ACCEPTABLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



CLIENT/SUBJECT DATA REVIEW SUMMARY W.O. NO.

TASK DESCRIPTION GM-AC LINDEN RD 9612G96 TASK NO.

PREPARED BY DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

INITIAL CALIBRATION WAS ACCEPTABLE.

CONTINUING CALIBRATION - 4-CHLORONAPHTHALENE; 4-N. DIPHENYL; 3,3'-D.CHLOROBENZIDINE %D 7 25% - ASSOCIATED DATA FLAGGED ESTIMATED (J)

OTHER CRITERIA WERE ACCEPTABLE

DEST/PCB - NO CHROMATOGRAMS WITH DATA PKG.

HOLDING TIMES WERE MET

BLANKS WERE ACCEPTABLE

SURROGATES ON BLANKS WERE ACCEPTABLE - SAMPLE SURROGATES DILUTED OUT

MS/MSD DILUTED OUT - BS/BSD WERE ACCEPTABLE

DATA REVIEW SUMMARY

DATE: 1/23/91

SUBJECT: DATA REVIEW

PROJECT NAME: GM-AC LINDEN RD.

PROJECT MANAGER: BABUSUDUMAR

RFW #: 90126959 - WET CHEMISTRY / PCB/PEST / TCLP-VOA, SVOA, METALS

LABORATORY: WESTON-GULF COAST

REVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

WET CHEMISTRY - HOLDING TIMES WERE ACCEPTABLE - AS NO HOLDING TIMES HAVE BEEN SET FOR WASTE SAMPLES
ALL OTHER CRITERIA WERE ACCEPTABLE

METALS - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
DUPLICATES WERE ACCEPTABLE
MS FOR SILVER & MERCURY OUTSIDE LIMITS OF 75-125% - DATA FLAGGED AS ESTIMATED (J)
BIAS CORRECTION WAS ACCEPTABLE

VOA - HOLDING TIMES WERE MET
SURROGATE RECOVERY WAS ACCEPTABLE
BLANKS WERE ACCEPTABLE
MS/MSD WERE ACCEPTABLE - BS FOR 1,1-DICHLOROETHENE WAS OUTSIDE LIMIT - NOT DETECTED SO NO FLAG
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION WAS ACCEPTABLE
CONT. CALIBRATION - ACETONE & 2HEXANONE %D > 25% - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

SAM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

OTHER CRITERIA WAS ACCEPTABLE

BNA - HOLDING TIMES WERE MET
SURROGATE RECOVERY WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
MS - 2,4-DINITROTOLUENE WAS OUTSIDE CONTROL LIMITS - NOT DETECTED SO NO FLAG - OTHER MS & BS WERE ACCEPTABLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



CLIENT/SUBJECT DATA REVIEW SUMMARY W.O. NO.

TASK DESCRIPTION GM-AC LINDEN 2D 90126959 TASK NO.

PREPARED BY DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION WAS ACCEPTABLE
CONT. CALIBRATION - 4-CHLOROANILINE; 4-NITROPHENOL; 3,3'-DICHLOROBENZIDINE %D > 25% - ASSOCIATED DATA FLAGGED AS ESTIMATED
OTHER CRITERIA WAS ACCEPTABLE

PEST/PCB - HOLDING TIMES WERE MET
BLANKS WERE ACCEPTABLE
BLANK SURROGATES WERE ACCEPTABLE - SAMPLE SURROGATES DILUTED OUT
MS/MSD WERE ACCEPTABLE - HEPTACHLOR ON MSD OUTSIDE CONTROL LIMITS - BS/BSD WERE ACCEPTABLE - NO DATA FLAGS
ELEVATED DETECTION LIMIT SO SAMPLE RERUN FOR PCB ONLY AFTER CLEANUP
OTHER CRITERIA WERE ACCEPTABLE

# st[illegible]y T[illegible]sf[illegible].Re[illegible].d/[illegible]Lab Work quest

Received By _____ Client GM-AC LINDEN RD. RFW Contact S. Balasubramanian

Date _____ Client Contact _____ Date Due As per schedule

Assigned to _____ Phone _____ Project Number 1138-58-02

S. Springer

## SAMPLE IDENTIFICATION

## ANALYSES REQUESTED

| Sample No. | Client ID No. | Description | Matrix | Date Collected | Container/Preservative | 1 | 2 | 3 | 9 | 10 | 11 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRUM | | GMI-DRA16-01 | DS | 11/30/90 | 1-8oz | X | | | | | | | |
| | | ↓ | ↓ | ↓ | 1-32oz | | X | X | X | X | | | |
| | | | | | 2-32oz | | | | | | X | | |
| | | GMI-DRA27-01 | | | 1-8oz | X | | | | | | | |
| | | ↓ | | | 1-32oz | | X | X | X | X | | | |
| | | | | | 2-32oz | | | | | | X | | |
| | | GMI-DRA35-01 | | | 1-8oz | X | | | | | | | |
| | | ↓ | | | 1-32oz | | X | X | X | X | | | |
| ↓ | | | ↓ | ↓ | 2-32oz | | | | | | X | | |

**Matrix:**
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

**Special Instructions:** These are drum samples - See Attachment for analytical requirements

| Items/Reason | Relinquished By | Received By | Date | Time | Items/Reason | Relinquished By | Received By | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| Drum Solids | Thomas D. Schuler | | 12/1/90 | 0800 | | | | | |
| | | Sherri Scott | 12/3/90 | 9:10 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

RFW 21-2[illegible] 8/86

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____ | APPROVED BY

MATH CHECK BY _____ DEPT _____ DATE _____ |

METHOD REV. BY _____ DEPT _____ DATE _____ | DEPT _____ DATE _____

8-4-91
DATA REVIEW - GMAC
PM BABUKUMAR
RFW #. 9105624J
WESTON - GULF COAST
REVIEWER: M. SULLIVAN

WET CHEMISTRY

SAMPLES LR50-TP01-0009, TP01-0003G, TP18 0010 G, TP19-0070, TP19-005 G
EXCEEDED CLP HOLDING TIME - FLAGED J
ALL OTHER QC CRITERIA ACCEPTABLE

METALS

HOLD TIMES ACCEPTABLE
DUPLICATE DID NOT MEET QC LIMITS FOR
As, Ba, Ca, Cd, Cr, Cu, Fe, Na, Ni, Pb, V Sb Zn
DATA FLAGGED J
MATRIX SPIKE OUTSIDE QC LIMITS FOR

| | | | |
|---|---|---|---|
| Ba | 140% | >125 and less than IDL | NO FLAG |
| K | 155% | >125 + > IDL | J - ESTIMATED |
| Sb | 63% | ALL DATA FLAGGED | J |
| Zn | 61% | | |

Blanks ACCEPTABLE:

VOA

INITIAL ANALYSIS HOLD TIME OK
REANALYSES + DILUTIONS EXCEED HOLD TIMES - ESTIMATED J
SURROGATES OUTSIDE QC LIMITS FOR LR50-TP03-0109, TP020003, DL, TP09-0005, TP010009, TP0100036, TP0100036DL, TP180010-6, TP1800010 TP190007, TP190056, TP190056MS
DATA FLAGGED J - ESTIMATED

Reuse was selected because hold times for soils have not been clearly established SM

MS/MSD

RPD OUTSIDE QC LIMITS FOR 2 OF 5
SPIKE RECOVERY OUTSIDE QC LIMIN 2 OF 10
NO FLAGS

1MS OUTSIDE QC LIMITS FOR BENZENE

BLANKS - DATA APPROPRIATELY FLAGGED BY LAB - SEE QUALIFIERS ON DATA

INITIAL CALIBRATION ASSOCIATED WITH SAMPLES
LRSO - TP17-0004', TP03-01-09', TP02-0002G', TP02-0003', TP01-0003-G', TP18-0010-G', TP18-0015', TP19-0007', TP19-0005-G', MS/MSD, VBLKGVC167MBI, BS

%RSD > 30% FOR ACETONE, TRICHLOROETHENE, - DETECTED DATA FLAGGED J
CONTINUING CAL
%D >25% FOR ACETONE, 2-BUTANONE, TRICHLOROETHENE, 4METHYL-2PENTAN
DATA ESTIMATED J

INITIAL CALIBRATION FOR LRSO-TP09-0005', TP01-0009'
VBLKGVC168-MBI, BS %RSD >30% FOR ACETONE, TRICHLOROET
DETECTED DATA FLAGGED J
CONTINUING CAL %D >25% FOR ACETONE, 2BUTANONE, TRICHLOROE
+ 2HEXANONE - DETECTED DATA FLAGGED J

CONTINUING CAL FOR ACETONE ASSOCIATED WITH SAMPLES
VBLKGVC 203-MBI, LRSO-TP19-0007RE, 0005 GRE >25% D.
VBLKGVC 203 MBI BS
DETECTED DATA FLAGGED J.

INTERNAL STANDARD AREA OUTSIDE QC LIMITS FOR SAMPLES
LRSO-TP02-0003DL, TP030109, TP02-0002G, TP02-0003, TP18-0010-G
TP18-0010, TP19-0007, TP19-0005-G, MS/MSD, TP09-0005,
TP01-0009, TP19-0007RE, TP19-0005-GRE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____ | APPROVED BY

MATH CHECK BY _____ DEPT _____ DATE _____ | _____

METHOD REV. BY _____ DEPT _____ DATE _____ | DEPT _____ DATE _____

## BNA

- HOLDING TIMES ACCEPTABLE

- SURROGATES - ONLY ONE SURROGATE OUTSIDE QC LIMITS FOR TP03-0109, TP190007 AND TP190065-G
  NO FLAGS

- MS/MSD
  RPD 3 OUT OF 11 OUTSIDE QC LIMITS
  SPIKE RECOVERY 4 OF 22 OUTSIDE QC LIMITS

- INTERNAL STANDARD AREA OUTSIDE QC LIMITS FOR SAMPLES SBLKGB0246 MB1BS/BSD TP17-0004, TP03-0109, TP02-0002-G, TP01-0003-G, TP19-0005-G, DL
  DATA FLAGGED J

INITIAL + CONTINUING CALIBRATION DO NOT REQUIRE ANY ADDITIONAL FLAGS

## PCBs / PESTICIDES

HOLD TIMES ACCEPTABLE

SURROGATES ACCEPTABLE
SURROGATES DILUTED OUT ON SAMPLES
TP17-0004, TP030109, TP02 0002G, TP02 0003, TP01-0009
TP01-0003G, TP180010-G, 2R TP19-0005G - NO FLAG

DATA REVIEW SUMMARY

DATE: 7/11/91

SUBJECT: DATA REVIEW

PROJECT NAME: GMAC LINDEN RD.

PROJECT MANAGER: BABUSUKUMAR

RFW #: 9105G043 - VOA/METALS/CN/BNA/PCB

LABORATORY: WESTON-GULF COAST

REVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

CYANIDE - HOLDING TIMES WERE ACCEPTABLE
BLANK - [illegible] ACCEPTABLE
LCS - % R [illegible] ACCEPTABLE

METALS - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
DUPLICATE RESULTS FOR CALCIUM/COBALT/SODIUM/LEAD/SELENIUM/MERCUR. WERE OUTSIDE CONTROL LIMITS - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
MS - FOR ARSENIC/BARIUM/CADMIUM/MAGNESIUM/ANTIMONY/MERCURY OUTSIDE CONTROL LIMITS - DATA FLAGGED AS ESTIMATED (J)
LCS - ALL % R WERE ACCEPTABLE

VOA - HOLDING TIMES WERE EXCEEDED FOR THE FOLLOWING SAMPLES: 001 D1/005 D1/006 D1 - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
BLANKS - METHYLENE CHLORIDE & ACETONE DETECTED IN BLANKS - ASSOCIATED DATA FLAGGED ACCORDINGLY (B)
SURROGATE RECOVERIES WERE OUTSIDE CONTROL LIMITS FOR THE FOLLOWING SAMPLES - 003/005/006 - ALL RECOVERIES WERE ~~XX~~ >10% SO DATA FLAGGED AS ESTIMATED (J)

SM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

MS/MSD - TRICHLOROETHENE/BENZENE/TOLUENE MS/MSD OUTSIDE CONTROL LIMITS - NO ASSOCIATED DATA FLAG

BS - TRICHLOROETHENE/BENZENE OUTSIDE CONTRO LIMITS ON BS - NO ASSOCIATED DATA FLAG

GC/MS TUNING WAS ACCEPTABLE

INITIAL CALIBRATION (5/4) - CHLOROMETHANE/ACETONE/CARBON DISULFIDE % RSD > 30% - ASSOCIATED DATA FLAGGED AS ESTIMATED WHEN

CLIENT/SUBJECT GM-AC LINDEN RD. W.O. NO.

TASK DESCRIPTION DATA REVIEW SUMMARY TASK NO.

PREPARED BY DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

DETECTED - SAMPLES 003/004
INITIAL CALIBRATION (5/17) WAS ACCEPTABLE
INITIAL CALIBRATION (5/24) - ACETONE % RSD > 30% - ASSOCIATED DATA FLAGGED AS ESTIMATED (J) WHEN DETECTED - SAMPLES 001 DL/005 DL/006 DL
CONT CALIBRATION (5/17) - 2-HEXANONE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 003/004
CONT. CALIBRATION (5/19) - METHYLENE CHLORIDE/1,1,1-TRICHLOROETHANE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 002/005/006/001
CONT. CALIBRATION (5/26) - ACETONE/2-BUTANONE/TRICHLOROETHENE/2-HEXANONE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 001 DL/005 DL/006 DL
INTERNAL STD AREA - SAMPLE 003 3 INTERNAL STDS OUTSIDE CONTROL LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
SAMPLES 002/005/006 - 2 INTERNAL STDS OUTSIDE CONTROL LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
SAMPLES 005 DL/006 DL - 1 INTERNAL STD OUTSIDE CONTROL LIMIT - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

BNA - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
SURROGATE RECOVERIES WERE ACCEPTABLE - SAMPLE 003 MSD & 005 HAD 1 RECOVERY OUTSIDE CONTROL LIMITS - NO ASSOCIATED DATA FLAG - SAMPLE 001 DL/002 DL/004/005 DL/006 SURROGATES DILUTED OUT - NO ASSOCIATED DATA FLAG
MS/MSD - 2,4-DINITROTOLUENE/PENTACHLOROPHENOL/PYRENE OUTSIDE CONTROL LIMITS - NO ASSOCIATED DATA FLAG

WESTON MANAGERS DESIGNERS/CONSULTANTS

SHEET 3 of 3

CLIENT/SUBJECT GM-AC LINDEN RD W.O. NO.

TASK DESCRIPTION DATA REVIEW SUMMARY TASK NO.

PREPARED BY DEPT DATE

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APPROVED BY

DEPT DATE

BS/BSD WERE ACCEPTABLE
GC/MS TUNING WAS ACCEPTABLE
INITAL CALIBRATION (4/22) - 2,4-DINITROPHENOL % RSD > 30% - ASSOCIATED DATA FLAGGED AS ESTIMATED (J) WHEN DETECTED
CONT. CALIBRATION (6/4) - INDENO (1,2,3-CD) PYRENE / DIBENZ (A,H) ANTHRACENE / BENZO (G,H,I) PERYLENE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 001/003/004
CONT. CALIBRATION (6/6) - 4-NITROPHENOL / PYRENE / INDENO (1,2,3-CD) PYRENE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 005/002/006/001 DL
CONT CALIBRATION (6/7) - 4-NITROPHENOL / INDENO (1,2,3-CD) PYRENE / DIBENZO (A,H) ANTHRACENE / BENZO (G,H,I) PERYLENE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 002 DL / 005 DL
INTERNAL STANDARD AREAS - SAMPLES 003 / 004 / 005 HAD INTERNAL AREAS OUTSIDE LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

PEST/PCB - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
SURROGATES WERE DILUTED OUT ON ALL SAMPLES - BLANK SURROGATES WERE ACCEPTABLE
MS/MSD WERE DILUTED OUT
BS/BSD WERE ACCEPTABLE

# DATA REVIEW SUMMARY

DATE: 7/15/91

SUBJECT: DATA REVIEW

PROJECT NAME: GN-AC LINDEN RD

PROJECT MANAGER: BABUSUKUMAR

RFW #: 9105GIC3 - CN/METALS/VOA/BNA/PCB

LABORATORY: WESTON - GULF COAST

REVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

CYANIDE - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
DUPLICATES WERE ACCEPTABLE
LCS - % R WAS ACCEPTABLE

METALS - HOLDING TIMES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
DUPLICATE RESULTS FOR CALCIUM/CHROMIUM/MAGNESIUM/MANGANESE/NICKEL/ZINC WERE OUTSIDE CONTROL LIMITS - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
MS - ARSENIC/POTASSIUM/MAGNESIUM/MANGANESE/LEAD/ANTIMONY/THALLIUM OUTSIDE CONTROL LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
LCS - ALL % R WERE ACCEPTABLE

VOA - HOLDING TIMES WERE EXCEEDED FOR THE FOLLOWING SAMPLES - 01 R1/002 D1/003 D1/005 D1/006 D1/007 D1 - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

SM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

BLANKS - METHYLENE CHLORIDE/ACETONE/1,1,1-TRICHLOROETHANE/2-BUTANONE DETECTED IN BLANKS - ASSOCIATED DATA FLAGGED ACCORDINGLY (B)

SURROGATE RECOVERIES WERE OUTSIDE CONTROL LIMITS FOR THE FOLLOWING SAMPLES - 001/001 RE1R1/002/004/006/007/011 - ALL RECOVERIES > 10% SO RESULTS FLAGGED AS ESTIMATED (J)

MS/MSD - TRICHLOROETHENE/BENZENE OUTSIDE CONTROL LIMITS ON MS/MSD - NO ASSOCIATED DATA FLAG

BS WAS ACCEPTABLE

CLIENT/SUBJECT GM-AC LINDEN RD W.O. NO.

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GC/MS TUNING WAS ACCEPTABLE
INITAL CALIBRATION (5/24) - WAS ACCEPTABLE
INITAL CALIBRATION (5/4) - ACETONE % RSD > 30% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GG1/GG2/GG3
INITAL CALIBRATION (5/26) - CHLOROMETHANE / CARBON DISULFIDE % RSD > 30% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLE GG1 RE
INITAL CALIBRATION (6/21) - WAS ACCEPTABLE
INITAL CALIBRATION (6/25) - WAS ACCEPTABLE
CONTINUING CALIB (5/26) - WAS ACCEPTABLE
CONTINUING CALIB (5/20) - METHYLENE CHLORIDE / ACETONE/2-BUTANONE/4-METHYL-2-PENTANONE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GG1/GG2/GG3
CONTINUING CALIB (6/2) - WAS ACCEPTABLE
CONTINUING CALIB (6/23) - CIS-1,3-DICHLOROPROPENE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GG2 DL/GG6 DL/GG7 DL
CONTINUING CALIB (6/26) - METHYLENE CHLORIDE % D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GG3 DL/GG5 DL
INTERNAL STD AREAS - SAMPLES GG2 DL/GG6 DL/GG7 DL/GG1 RE/GG1/GG2/GG3/GG4/GG5/GG7/GG8/GG9/GG10 HAD 1 OR MORE ISA OUTSIDE CONTROL LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

BNA - HOLDING TIMES WERE EXCEEDED FOR THE FOLLOWING SAMPLES - GG5 - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)
BLANKS WERE ACCEPTABLE
SURROGATE RECOVERIES SAMPLES GG1/GG4/GG6/GG7/GG8 HAD 1 SURROGATE OUTSIDE CONTROL LIMITS - SAMPLES GG1DL/GG7 DL HAD SURROGATES DILUTED OUT - NO ASSOCIATED DATA FLAGS

WESTON MANAGERS DESIGNERS/CONSULTANTS



CLIENT/SUBJECT GM-AC LINDEN RD W.O. NO.

TASK DESCRIPTION DATA REVIEW SUMMARY TASK NO.

PREPARED BY DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

MS/MSD - 2,4-DINITROTOLUENE/PENTACHLOROPHENOL/PYRENE OUTSIDE CONTROL LIMITS ON MS/MSD - NO ASSOCIATED DATA FLAG

BS/BSD WERE ACCEPTABLE

GC/MS TUNING WAS ACCEPTABLE

INITIAL CALIBRATION (4/22) - 2,4-DINITROPHENOL %RSD > 30% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GC1/GC2/GC3/GC4/GC5/GC9/GC10/GC5/GC6/GC7 GC10/GC11/GC7 DL

CONT. CALIBRATION (6/1) - 4-NITROPHENOL/INDENO (1,2,3-CD) PYRENE/DIBENZ (A,H) ANTHRACENE/BENZO (G,H,I) PERYLENE %D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GC1/GC2/GC3/GC4/GC5/GC9

CONT. CALIBRATION (6/2) - 4-NITROPHENOL/BENZO (G,H,I) PERYLENE %D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GC1 DL/GC5/GC6/GC7/GC10/GC11

CONT. CALIBRATION (6/4) - INDENO (1,2,3-CD) PYRENE/DIBENZ (A,H) ANTHRACENE/BENZO (G,H,I) PERYLENE %D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLE GC7 DL

INTERNAL STD AREA - SAMPLES GC1/GC2/GC3/GC4/GC5/GC9/GC1 DL/GC5/GC6/GC7/GC11 HAD INTERNAL AREAS OUTSIDE LIMITS - ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

PEST/PCB - HOLDING TIMES WERE EXCEEDED FOR THE FOLLOWING SAMPLES GC4/GC5/GC11 - ALL ASSOCIATED DATA FLAGGED AS ESTIMATED (J)

SURROGATES WERE ACCEPTABLE WHEN NOT DILUTED OUT

MS/MSD WERE DILUTED OUT

BS/BSD WERE ACCEPTABLE

BLANKS WERE ACCEPTABLE

Roy F. Weston, Inc. - Gulf Coast Laboratories
VOLATILES BY GC/MS, HSL LIST
Report Date: 07/05/91 11:21

RFW Batch Number: 9105G103 Client: GMAC Work Order: 1138-58-02-0000 Page: 1a

| Sample Information | Cust ID: | LRSOTP 04000 3 | LRSOTP 04000 3 | LRSOTP 16000 4-G | LRSOTP 16000 4-G | LRSOTP 16000 5 | LRSOTP 16000 5 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 | 002 | 002 DL | 003 | 003 DL |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 10.0 | 1.00 | 50.0 |
| | Units: | ug/Kg | ug/Kg REPREP | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 122 * % | 131 * % | 112 % | 101 % | 204 * % | 99 % |
| | Bromofluorobenzene | 79 % | 83 % | 82 % | 91 % | 56 * % | 91 % |
| | 1,2-Dichloroethane-d4 | 109 % | 106 % | 100 % | 98 % | 103 % | 102 % |
| Chloromethane | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Bromomethane | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Vinyl Chloride | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Chloroethane | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Methylene Chloride | | 180 | 21 B | 160 | NA | 520 | NA |
| Acetone | | 12 U | 12 U | 440 | NA | 1100 | NA |
| Carbon Disulfide | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,1-Dichloroethene | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,1-Dichloroethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,2-Dichloroethene (total) | | 11 | 9 | 80 | NA | 190 | NA |
| Chloroform | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,2-Dichloroethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 2-Butanone | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| 1,1,1-Trichloroethane | | 6 U | 8 B | 6 U | NA | 8 U | NA |
| Carbon Tetrachloride | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Vinyl Acetate | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Bromodichloromethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,2-Dichloropropane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| cis-1,3-Dichloropropene | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Trichloroethene | | 26 | 16 | E | 3300 | E | 12000 |
| Dibromochloromethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 1,1,2-Trichloroethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Benzene | | 6 U | 6 U | 6 U | NA | 30 | NA |
| Trans-1,3-Dichloropropene | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Bromoform | | 6 U | 6 U | 6 U | NA | 8 U | NA |
| 4-Methyl-2-pentanone | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| 2-Hexanone | | 12 U | 12 U | 11 U | NA | 16 U | NA |
| Tetrachloroethene | | 9 | 8 | 7 | NA | 52 | NA |
| 1,1,2,2-Tetrachloroethane | | 6 U | 6 U | 6 U | NA | 8 U | NA |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 04000 3 | LRSOTP 04000 3 | LRSOTP 16000 4-G | LRSOTP 16000 4-G | LRSOTP 16000 5 | LRSOTP 16000 5 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 001 REPREP | 002 | 002 DL | 003 | 003 DL |
| Toluene | 26 | 18 | 21 | NA | 260 | NA |
| Chlorobenzene | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Ethylbenzene | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Styrene | 6 U | 6 U | 6 U | NA | 8 U | NA |
| Xylene (total) | 19 | 4 J | 10 | NA | 8 U | NA |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 05011 4 | LRSOTP 05011 4 | LRSOTP 05011 4 | LRSOTP 14010 2-G | LRSOTP 14010 2-G | LRSOTP 10011 2 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 004 | 004 MS | 004 MSD | 005 | 005 DL | 006 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 10000 | 500000 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 121 * % | 134 * % | 126 * % | 91 % | 101 % | 117 % |
| | Bromofluorobenzene | 82 % | 74 % | 76 % | 109 % | 91 % | 91 % |
| | 1,2-Dichloroethane-d4 | 112 % | 115 % | 116 % | 111 % | 103 % | 112 % |
| Chloromethane | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Bromomethane | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Vinyl Chloride | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Chloroethane | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Methylene Chloride | | 780 B | 1200 B | 700 B | E | 0.56E+08 B | 610 B |
| Acetone | | 440 B | 660 B | 330 B | 130000 JB | NA | 2000 B |
| Carbon Disulfide | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| 1,1-Dichloroethene | | 9 U | 126 % | 115 % | 90000 U | NA | 7 U |
| 1,1-Dichloroethane | | 9 | 22 | 11 | 90000 U | NA | 7 U |
| 1,2-Dichloroethene (total) | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| Chloroform | | 32 | 74 | 39 | 100000 | NA | 7 U |
| 1,2-Dichloroethane | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| 2-Butanone | | 47 | 54 | 17 U | 1900000 | NA | 78 |
| 1,1,1-Trichloroethane | | 9 U | 9 U | 9 U | 92000 | NA | 7 U |
| Carbon Tetrachloride | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| Vinyl Acetate | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Bromodichloromethane | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| 1,2-Dichloropropane | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| cis-1,3-Dichloropropene | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| Trichloroethene | | 71 | 153 * % | 108 % | 47000 J | NA | 83 |
| Dibromochloromethane | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| 1,1,2-Trichloroethane | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| Benzene | | 3 J | 144 * % | 150 * % | 90000 U | NA | 7 U |
| Trans-1,3-Dichloropropene | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| Bromoform | | 9 U | 9 U | 9 U | 90000 U | NA | 7 U |
| 4-Methyl-2-pentanone | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| 2-Hexanone | | 17 U | 17 U | 17 U | 180000 U | NA | 13 U |
| Tetrachloroethene | | 11 | 27 | 14 | 90000 U | NA | 7 U |
| 1,1,2,2-Tetrachloroethane | | 7 J | 12 | 8 J | 90000 U | NA | 7 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 05011 4 | | LRSOTP 05011 4 | | LRSOTP 05011 4 | | LRSOTP 14010 2-G | | LRSOTP 14010 2-G | | LRSOTP 10011 2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 004 | | 004 MS | | 004 MSD | | 005 | | 005 DL | | 006 | |
| Toluene | 50 | | 172 * | % | 128 | % | | E | 0.18E+08 | | | E |
| Chlorobenzene | 9 | U | 118 | % | 115 | % | 90000 | U | NA | | 7 | U |
| Ethylbenzene | 10 | | 31 | | 26 | | | E | 5300000 | | 280 | |
| Styrene | 9 | U | 9 | U | 9 | U | 90000 | U | NA | | 7 | U |
| Xylene (total) | 47 | | 170 | | 35 | | | E | 0.34E+08 | | | E |

*= Outside of EPA CLP QC limits.

Roy F. [illegible]ston, Inc. - Gulf Coast Laboratories
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G103 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/05/91 11:21 Page: 3a

| Sample Information | Cust ID: | LRSOTP 10011 2 | LRSOTP 11010 4 | LRSOTP 11010 4 | LRSOTP 14010 8 | LRSOTP 15020 6 | LRSOTP 07010 6 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 006 DL | 007 | 007 DL | 008 | 009 | 010 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 107 % | 193 * % | 103 % | 160 * % | 108 % | 105 % |
| | Bromofluorobenzene | 79 % | 71 * % | 84 % | 56 * % | 90 % | 94 % |
| | 1,2-Dichloroethane-d4 | 99 % | 111 % | 100 % | 133 * % | 111 % | 112 % |
| Chloromethane | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Bromomethane | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Vinyl Chloride | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Chloroethane | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Methylene Chloride | | NA | 290 B | NA | 1300 | 89 B | 11 B |
| Acetone | | NA | 25 B | NA | 100 B | 340 | 650 |
| Carbon Disulfide | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,1-Dichloroethene | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,1-Dichloroethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | | NA | 70 | NA | 8 U | 6 U | 6 U |
| Chloroform | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,2-Dichloroethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 2-Butanone | | NA | 15 U | NA | 15 U | 13 U | 21 |
| 1,1,1-Trichloroethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Carbon Tetrachloride | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Vinyl Acetate | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Bromodichloromethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,2-Dichloropropane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| cis-1,3-Dichloropropene | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Trichloroethene | | NA | 370 | 180 | 20 | 4 J | 6 U |
| Dibromochloromethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Benzene | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Trans-1,3-Dichloropropene | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Bromoform | | NA | 7 U | NA | 8 U | 6 U | 6 U |
| 4-Methyl-2-pentanone | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| 2-Hexanone | | NA | 15 U | NA | 15 U | 13 U | 12 U |
| Tetrachloroethene | | NA | 31 | NA | 23 | 6 U | 6 U |
| 1,1,2,2-Tetrachloroethane | | NA | 7 U | NA | 26 | 6 U | 8 |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 10011 2 | LRSOTP 11010 4 | LRSOTP 11010 4 | LRSOTP 14010 8 | LRSOTP 15020 6 | LRSOTP 07010 6 |
|---|---|---|---|---|---|---|
| RFW#: | 006 DL | 007 | 007 DL | 008 | 009 | 010 |
| Toluene | 800 | 160 | NA | 650 | 10 | 4 J |
| Chlorobenzene | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Ethylbenzene | NA | 21 | NA | 160 | 12 | 6 U |
| Styrene | NA | 7 U | NA | 8 U | 6 U | 6 U |
| Xylene (total) | 900 | 110 | NA | 1300 | 29 | 9 |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 06010 8 | VBLK | VBLK BS | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 011 | 91GVB170-MB1 | 91GVB170-MB1 | 91GVB192-MB1 | 91GVB192-MB1 | 91GVC197-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 148 * % | 97 % | 105 % | 93 % | 104 % | 97 % |
| | Bromofluorobenzene | 58 * % | 94 % | 94 % | 101 % | 101 % | 97 % |
| | 1,2-Dichloroethane-d4 | 113 % | 96 % | 102 % | 98 % | 100 % | 98 % |
| Chloromethane | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 820 | 5 U | 5 U | 4 J | 5 U | 5 U |
| Acetone | | 670 | 10 U | 10 U | 26 | 10 U | 21 |
| Carbon Disulfide | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 6 U | 5 U | 112 % | 5 U | 110 % | 5 U |
| 1,1-Dichloroethane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 13 U | 10 U | 10 U | 10 U | 10 U | 17 |
| 1,1,1-Trichloroethane | | 6 U | 5 U | 5 U | 4 J | 1 JB | 5 U |
| Carbon Tetrachloride | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 44 | 5 U | 112 % | 5 U | 93 % | 5 U |
| Dibromochloromethane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 6 U | 5 U | 109 % | 5 U | 100 % | 5 U |
| Trans-1,3-Dichloropropene | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 13 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 56 | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 61 | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| | Cust ID: LRSOTP 06010 8 | VBLK | VBLK BS | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|
| | RFW#: 011 | 91GVB170-MB1 | 91GVB170-MB1 | 91GVB192-MB1 | 91GVB192-MB1 | 91GVC197-MB1 |
| Toluene | 210 | 5 U | 108 % | 5 U | 103 % | 5 U |
| Chlorobenzene | 6 U | 5 U | 111 % | 5 U | 103 % | 5 U |
| Ethylbenzene | 97 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 6 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 1000 | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|
| | RFW#: | 91GVC197-MB1 | 91GVC204-MB1 | 91GVC204-MB1 | 91GVC159-MB1 | 91GVC159-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 98 % | 98 % | 98 % | 98 % | 99 % |
| | Bromofluorobenzene | 95 % | 98 % | 95 % | 100 % | 100 % |
| | 1,2-Dichloroethane-d4 | 100 % | 107 % | 102 % | 108 % | 111 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 8 | 21 | 12 B | 5 | 7 B |
| Acetone | | 32 B | 23 | 17 B | 11 | 15 B |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 124 % | 5 U | 79 % | 5 U | 108 % |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 115 % | 5 U | 105 % | 5 U | 108 % |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 91 % | 5 U | 94 % | 5 U | 134 % |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|
| RFW#: | 91GVC197-MB1 | 91GVC204-MB1 | 91GVC204-MB1 | 91GVC159-MB1 | 91GVC159-MB1 |
| Toluene | 96 % | 5 U | 97 % | 5 U | 105 % |
| Chlorobenzene | 98 % | 5 U | 97 % | 5 U | 106 % |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 08-06 07G | LRSOTP 08-06 07G | LRSOTP 08-03 09 | LRSOTP 12 0107 | LRSOTP 12 0107 | LRSOTP 12 0107 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 DL | 002 | 003 | 003 MS | 003 MSD |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 100 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 96 % | 98 % | 116 % | 167 * % | 284 * % | 212 * % |
| | Bromofluorobenzene | 119 % | 96 % | 75 % | 60 * % | 55 * % | 74 % |
| | 1,2-Dichloroethane-d4 | 87 % | 99 % | 113 % | 111 % | 109 % | 109 % |
| Chloromethane | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Bromomethane | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Vinyl Chloride | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Chloroethane | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Methylene Chloride | | 21000 B | NA | 54 B | 740 | 660 | 580 |
| Acetone | | 1600 | NA | 13 U | 800 | 940 | 730 |
| Carbon Disulfide | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 1,1-Dichloroethene | | 760 U | NA | 7 U | 7 U | 132 % | 149 % |
| 1,1-Dichloroethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 1,2-Dichloroethene (total) | | 15000 | NA | 7 U | 9 | 13 | 11 |
| Chloroform | | 2600 | NA | 7 U | 7 U | 7 U | 7 U |
| 1,2-Dichloroethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 2-Butanone | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| 1,1,1-Trichloroethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| Carbon Tetrachloride | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| Vinyl Acetate | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Bromodichloromethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 1,2-Dichloropropane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| cis-1,3-Dichloropropene | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| Trichloroethene | | 13000 | NA | 15 | 340 | 816 * % | 482 * % |
| Dibromochloromethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 1,1,2-Trichloroethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| Benzene | | 40000 | NA | 6 J | 9 | 180 * % | 176 * % |
| Trans-1,3-Dichloropropene | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| Bromoform | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 4-Methyl-2-pentanone | | E | 160000 | 13 U | 13 U | 13 U | 13 U |
| 2-Hexanone | | 1500 U | NA | 13 U | 13 U | 13 U | 13 U |
| Tetrachloroethene | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |
| 1,1,2,2-Tetrachloroethane | | 760 U | NA | 7 U | 7 U | 7 U | 7 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 08-06 07G | | LRSOTP 08-06 07G | LRSOTP 08-03 09 | LRSOTP 12 0107 | LRSOTP 12 0107 | LRSOTP 12 0107 |
|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 001 DL | 002 | 003 | 003 MS | 003 MSD |
| Toluene | | E | 170000 | 36 | 48 | 497 * % | 290 * % |
| Chlorobenzene | 760 | U | NA | 7 U | 7 U | 97 % | 103 % |
| Ethylbenzene | | E | 75000 | 8 | 7 U | 7 U | 7 U |
| Styrene | 760 | U | NA | 7 U | 7 U | 7 U | 7 U |
| Xylene (total) | | E | 350000 | 41 | 7 U | 120 | 53 |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 12 0800-G | | LRSOTP 13 0207 | | LRSOTP 13 0207 | | LRSOTP 13 0400-G | | LRSOTP 13 0400-G | | VBLK | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 004 | | 005 | | 005 DL | | 006 | | 006 DL | | 91GVC158-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 10.0 | | 1.00 | | 5.00 | | 100 | | 1000 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Toluene-d8 | 102 | % | 142 * | % | 112 | % | 127 * | % | 102 | % | 99 | % |
| | Bromofluorobenzene | 111 | % | 115 | % | 77 | % | 108 | % | 91 | % | 96 | % |
| | 1,2-Dichloroethane-d4 | 94 | % | 118 | % | 101 | % | 110 | % | 101 | % | 106 | % |
| Chloromethane | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Bromomethane | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Vinyl Chloride | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Chloroethane | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Methylene Chloride | | 310 | | 69 | B | NA | | 2200 | B | NA | | 20 | |
| Acetone | | 5000 | | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Carbon Disulfide | | 64 | | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,1-Dichloroethene | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,1-Dichloroethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,2-Dichloroethene (total) | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Chloroform | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,2-Dichloroethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 2-Butanone | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| 1,1,1-Trichloroethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Carbon Tetrachloride | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Vinyl Acetate | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Bromodichloromethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,2-Dichloropropane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| cis-1,3-Dichloropropene | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Trichloroethene | | 160 | | 12 | | NA | | 640 | U | NA | | 5 | U |
| Dibromochloromethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,1,2-Trichloroethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Benzene | | 58 | U | 16 | | NA | | 6600 | | NA | | 5 | U |
| Trans-1,3-Dichloropropene | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Bromoform | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 4-Methyl-2-pentanone | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| 2-Hexanone | | 120 | U | 14 | U | NA | | 1300 | U | NA | | 10 | U |
| Tetrachloroethene | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| 1,1,2,2-Tetrachloroethane | | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 12 0800-G | | LRSOTP 13 0207 | | LRSOTP 13 0207 | | LRSOTP 13 0400-G | | LRSOTP 13 0400-G | | VBLK | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 004 | | 005 | | 005 DL | | 006 | | 006 DL | | 91GVC158-MB1 | |
| Toluene | 58 | | 15 | | NA | | | E | 220000 | | 5 | U |
| Chlorobenzene | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Ethylbenzene | 58 | U | 20 | | NA | | | E | 210000 | | 5 | U |
| Styrene | 58 | U | 7 | U | NA | | 640 | U | NA | | 5 | U |
| Xylene (total) | 190 | | | E | 250 | | | E | 500000 | | 5 | U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|
| | RFW#: | 91GVC158-MB1 | 91GVC169-MB1 | 91GVC169-MB1 | 91GVB168-MB1 | 91GVB168-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 96 % | 98 % | 101 % | 97 % | 95 % |
| | Bromofluorobenzene | 103 % | 97 % | 94 % | 94 % | 100 % |
| | 1,2-Dichloroethane-d4 | 180 * % | 96 % | 98 % | 94 % | 93 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 6 B | 7 | 5 U | 5 U | 5 U |
| Acetone | | 10 U | 14 | 10 U | 40 | 10 U |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 78 % | 5 U | 109 % | 5 U | 108 % |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 100 % | 5 U | 41 * % | 5 U | 102 % |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 173 * % | 5 U | 43 * % | 5 U | 102 % |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|
| RFW#: | 91GVC158-MB1 | 91GVC169-MB1 | 91GVC169-MB1 | 91GVB168-MB1 | 91GVB168-MB1 |
| Toluene | 90 % | 5 U | 96 % | 5 U | 94 % |
| Chlorobenzene | 115 % | 5 U | 101 % | 5 U | 105 % |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 24 | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRS0-TP17-0004 | LRS0-TP17-0004 | LRS0-TP03-0109 | LRS0-TP02-0002-G | LRS0-TP02-0003 | LRS0-TP02-0003 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 DL | 002 | 003 | 004 | 004 DL |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 10.0 | 1.00 | 1.00 | 1.00 | 5.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 108 % | 108 % | 169 * % | 104 % | 145 * % | 142 * % |
| | Bromofluorobenzene | 92 % | 88 % | 70 * % | 93 % | 71 * % | 69 * % |
| | 1,2-Dichloroethane-d4 | 96 % | 98 % | 108 % | 102 % | 110 % | 105 % |
| Chloromethane | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Bromomethane | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Vinyl Chloride | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Chloroethane | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Methylene Chloride | | 170 B | NA | 530 B | 57 B | E | 490 BJ |
| Acetone | | 100 BJ | NA | 18 U | 120 BJ | 1000 B | NA |
| Carbon Disulfide | | 7 U | NA | 9 U | 8 UJ | 8 U | NA |
| 1,1-Dichloroethene | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 1,1-Dichloroethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 1,2-Dichloroethene (total) | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Chloroform | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 1,2-Dichloroethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 2-Butanone | | 9 J | NA | 18 U | 17 U | 21 | NA |
| 1,1,1-Trichloroethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Carbon Tetrachloride | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Vinyl Acetate | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Bromodichloromethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 1,2-Dichloropropane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| cis-1,3-Dichloropropene | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Trichloroethene | | 3 J | NA | 28 | 8 U | 44 | NA |
| Dibromochloromethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 1,1,2-Trichloroethane | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Benzene | | 7 U | NA | 9 U | 8 U | 4 J | NA |
| Trans-1,3-Dichloropropene | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Bromoform | | 7 U | NA | 9 U | 8 U | 8 U | NA |
| 4-Methyl-2-pentanone | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| 2-Hexanone | | 13 U | NA | 18 U | 17 U | 16 U | NA |
| Tetrachloroethene | | 7 U | NA | 25 | 8 U | 66 | NA |
| 1,1,2,2-Tetrachloroethane | | 7 U | NA | 31 | 8 U | 44 | NA |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0-TP17-00 04 | LRS0-TP17-00 04 | LRS0-TP03-01 09 | LRS0-TP02-00 02-G | LRS0-TP02-00 03 | LRS0-TP02-00 03 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 001 DL | 002 | 003 | 004 | 004 DL |
| Toluene | 240 | NA | 63 J | 6 J | 23 J | NA |
| Chlorobenzene | 5 J | NA | 9 U | 5 J | 8 U | NA |
| Ethylbenzene | 290 | NA | 69 | 8 U J | 8 U | NA |
| Styrene | 7 U | NA | 9 U | 8 U | 8 U | NA |
| Xylene (total) | E | 6400 J | 1700 | 8 U | 8 U | NA |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRS0-TP09-00 05 | LRS0-TP01-00 09 | LRS0-TP01-00 03-G | LRS0-TP01-00 03-G | LRS0-TP18-00 10-G | LRS0-TP18-00 10 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 005 | 006 | 007 | 007 | 008 | 009 |
| | Matrix: | SOIL | SOIL | SOLID | SOLID | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg REPREP | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 204 * % | 190 * % | 141 * % | 125 * % | 149 * % | 136 * % |
| | Bromofluorobenzene | 58 * % | 61 * % | 80 % | 80 % | 68 * % | 75 % |
| | 1,2-Dichloroethane-d4 | 100 % | 110 % | 96 % | 100 % | 96 % | 98 % |
| Chloromethane | | 15 U J | 16 U J | 14 U J | 14 U J | 13 U J | 12 U J |
| Bromomethane | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| Vinyl Chloride | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| Chloroethane | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| Methylene Chloride | | 89 B | 110 B | 170 B | 53 B | 560 B | 160 B |
| Acetone | | 330 B | 590 B | 7900 B | 120 B | 1500 B | 520 B J |
| Carbon Disulfide | | 7 U | 8 U | 20 | 7 U | 8 | 6 U |
| 1,1-Dichloroethene | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 1,1-Dichloroethane | | 7 U | 5 J | 7 U | 7 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | | 7 U | 8 U J | 7 U | 7 U | 32 | 6 U |
| Chloroform | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 1,2-Dichloroethane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 2-Butanone | | 15 U | 16 U | 71 | 14 U | 13 U | 12 U |
| 1,1,1-Trichloroethane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Carbon Tetrachloride | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Vinyl Acetate | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| Bromodichloromethane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 1,2-Dichloropropane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| cis-1,3-Dichloropropene | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Trichloroethene | | 26 | 8 U | 7 U | 7 U | 8 | 5 J |
| Dibromochloromethane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Benzene | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Trans-1,3-Dichloropropene | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| Bromoform | | 7 U | 8 U | 7 U | 7 U | 6 U | 6 U |
| 4-Methyl-2-pentanone | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| 2-Hexanone | | 15 U | 16 U | 14 U | 14 U | 13 U | 12 U |
| Tetrachloroethene | | 26 | 8 U | 7 U | 7 | 6 U | 10 |
| 1,1,2,2-Tetrachloroethane | | 60 | 8 U | 7 U | 18 | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0-TP09-00 05 | LRS0-TP01-00 09 | LRS0-TP01-00 03-G | LRS0-TP01-00 03-G | LRS0-TP18-00 10-G | LRS0-TP18-00 10 |
|---|---|---|---|---|---|---|
| RFW#: | 005 | 006 | 007 | 007 REPREP | 008 | 009 |
| Toluene | 52 J | 10 J | 9 J | 12 J | 29 J | 9 J |
| Chlorobenzene | 7 U J | 8 U J | 7 U J | 3 J J | 6 U J | 6 U J |
| Ethylbenzene | 6 J | 4 J | 22 J | 15 J | 6 U J | 6 U J |
| Styrene | 7 U J | 8 U J | 7 U J | 7 U J | 6 U J | 6 U J |
| Xylene (total) | 34 J | 65 J | 150 J | 78 J | 6 U J | 6 U J |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRS0-TP19-0007 | LRS0-TP19-0007 | LRS0-TP19-05-G | LRS0-TP19-05-G | LRS0-TP19-05-G | LRS0-TP19-05-G |
|---|---|---|---|---|---|---|---|
| | RFW#: | 010 | 010 REPREP | 011 | 011 REPREP | 011 MS | 011 MSD |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 162 * % | 107 % | 128 * % | 91 % | 122 * % | 116 % |
| | Bromofluorobenzene | 66 * % | 79 % | 71 * % | 75 % | 75 % | 82 % |
| | 1,2-Dichloroethane-d4 | 99 % | 108 % | 93 % | 99 % | 90 % | 95 % |
| Chloromethane | | 15 U J | 15 U J | 12 U J | 18 U J | 12 U J | 12 U |
| Bromomethane | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| Vinyl Chloride | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| Chloroethane | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| Methylene Chloride | | 230 B | 53 B | 350 B | 120 B | 390 B | 360 B |
| Acetone | | 290 B | 23 B | 47 B | 34 B | 59 B | 69 B |
| Carbon Disulfide | | 8 U | 8 U | 6 U | 6 J | 6 U | 6 U |
| 1,1-Dichloroethene | | 8 U | 8 U | 6 U | 9 U | 130 % | 113 % |
| 1,1-Dichloroethane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Chloroform | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 1,2-Dichloroethane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 2-Butanone | | 15 U | 15 U | 12 U | 18 U | 21 | 12 U |
| 1,1,1-Trichloroethane | | 8 U | 8 U | 6 U | 33 | 6 U | 6 U |
| Carbon Tetrachloride | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Vinyl Acetate | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| Bromodichloromethane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 1,2-Dichloropropane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| cis-1,3-Dichloropropene | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Trichloroethene | | 16 | 8 U | 11 | 41 | 108 % | 24 * % |
| Dibromochloromethane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Benzene | | 8 U | 8 U | 6 U | 5 J | 112 % | 40 * % |
| Trans-1,3-Dichloropropene | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Bromoform | | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| 4-Methyl-2-pentanone | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| 2-Hexanone | | 15 U | 15 U | 12 U | 18 U | 12 U | 12 U |
| Tetrachloroethene | | 22 | 8 U | 15 | 71 | 6 U | 6 U |
| 1,1,2,2-Tetrachloroethane | | 15 | 37 | 6 U | 17 | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0-TP19-00 07 | LRS0-TP19-00 07 | LRS0-TP19-00 05-G | LRS0-TP19-00 05-G | LRS0-TP19-00 05-G | LRS0-TP19-00 05-G |
|---|---|---|---|---|---|---|
| RFW#: | 010 | 010 REPREP | 011 | 011 REPREP | 011 MS | 011 MSD |
| Toluene | 22 J | 4 J | 13 J | 110 J | 101 % J | 100 % |
| Chlorobenzene | 8 U | 8 U | 6 U | 9 U | 92 % | 104 % |
| Ethylbenzene | 8 U | 8 U | 56 | 17 | 6 U | 6 U |
| Styrene | 8 U | 8 U | 6 U | 9 U | 6 U | 6 U |
| Xylene (total) | 8 U | 8 U | 93 | 59 | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

F[redacted]stol., Inc. Gulf Coast [illegible]ratories
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G243 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/08/91 12:38 Page: 4a

| Sample Information | Cust ID: | VBLK | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 91GVC167-MB1 | 91GVC167-MB1 | 91GVC201-MB1 | 91GVC201-MB1 | 91GVC168-MB1 | 91GVC168-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 98 % | 105 % | 103 % | 104 % | 99 % | 102 % |
| | Bromofluorobenzene | 98 % | 92 % | 93 % | 97 % | 100 % | 101 % |
| | 1,2-Dichloroethane-d4 | 99 % | 95 % | 88 % | 99 % | 102 % | 106 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 2 J | 5 B | 10 | 5 U | 2 J | 2 JB |
| Acetone | | 10 J | 16 B | 23 | 14 B | 9 J | 8 JB |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 133 % | 5 U | 94 % | 5 U | 111 % |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 6 J | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 85 % | 5 U | 97 % | 5 U | 65 % |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 89 % | 5 U | 100 % | 5 U | 63 * % |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | VBLK | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|
| RFW#: | 91GVC167-MB1 | 91GVC167-MB1 | 91GVC201-MB1 | 91GVC201-MB1 | 91GVC168-MB1 | 91GVC168-MB1 |
| Toluene | 5 U | 108 % | 5 U | 100 % | 5 U | 93 % |
| Chlorobenzene | 5 U | 107 % | 5 U | 100 % | 5 U | 95 % |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 8 |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 42 |

*= Outside of EPA CLP QC limits.

| | Cust ID: | VBLK | | VBLK BS | |
|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GVC203-MB1 | | 91GVC203-MB1 | |
| | Matrix: | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Toluene-d8 | 96 | % | 85 | % |
| | Bromofluorobenzene | 101 | % | 101 | % |
| | 1,2-Dichloroethane-d4 | 107 | % | 107 | % |
| Chloromethane | | 10 | U | 10 | U |
| Bromomethane | | 10 | U | 10 | U |
| Vinyl Chloride | | 10 | U | 10 | U |
| Chloroethane | | 10 | U | 10 | U |
| Methylene Chloride | | 6 | | 6 | B |
| Acetone | | 34 | | 15 | B |
| Carbon Disulfide | | 5 | U | 5 | U |
| 1,1-Dichloroethene | | 5 | U | 90 | % |
| 1,1-Dichloroethane | | 5 | U | 5 | U |
| 1,2-Dichloroethene (total) | | 5 | U | 5 | U |
| Chloroform | | 5 | U | 5 | U |
| 1,2-Dichloroethane | | 5 | U | 5 | U |
| 2-Butanone | | 10 | U | 10 | U |
| 1,1,1-Trichloroethane | | 5 | U | 5 | U |
| Carbon Tetrachloride | | 5 | U | 5 | U |
| Vinyl Acetate | | 10 | U | 10 | U |
| Bromodichloromethane | | 5 | U | 5 | U |
| 1,2-Dichloropropane | | 5 | U | 5 | U |
| cis-1,3-Dichloropropene | | 5 | U | 5 | U |
| Trichloroethene | | 5 | U | 102 | % |
| Dibromochloromethane | | 5 | U | 5 | U |
| 1,1,2-Trichloroethane | | 5 | U | 5 | U |
| Benzene | | 5 | U | 100 | % |
| Trans-1,3-Dichloropropene | | 5 | U | 5 | U |
| Bromoform | | 5 | U | 5 | U |
| 4-Methyl-2-pentanone | | 10 | U | 10 | U |
| 2-Hexanone | | 10 | U | 10 | U |
| Tetrachloroethene | | 5 | U | 5 | U |
| 1,1,2,2-Tetrachloroethane | | 5 | U | 5 | U |

*= Outside of EPA CLP QC limits.

| | Cust ID: VBLK | VBLK BS |
|---|---|---|
| | RFW#: 91GVC203-MB1 | 91GVC203-MB1 |
| Toluene | 5 U | 98 % |
| Chlorobenzene | 5 U | 96 % |
| Ethylbenzene | 5 U | 5 U |
| Styrene | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 04000 3 | LRSOTP 04000 3 | LRSOTP 04000 3 | LRSOTP 04000 3 | LRSOTP 16000 4-G | LRSOTP 16000 5 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 DL | 001 MS | 001 MSD | 002 | 003 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 69 % | D % | 72 % | 66 % | 55 % | 56 % |
| | 2-Fluorobiphenyl | 67 % | D % | 66 % | 65 % | 53 % | 58 % |
| | Terphenyl-d14 | 149 * % | D % | 196 * % | 171 * % | 99 % | 69 % |
| | Phenol-d5 | 65 % | D % | 70 % | 67 % | 59 % | 54 % |
| | 2-Fluorophenol | 64 % | D % | 67 % | 63 % | 62 % | 50 % |
| | 2,4,6-Br3-phenol | 50 % | D % | 52 % | 51 % | 56 % | 31 % |
| Phenol | | 400 U | NA | 71 % | 68 % | 380 U | 530 U |
| bis(2-Chloroethyl)ether | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 2-Chlorophenol | | 400 U | NA | 72 % | 71 % | 380 U | 530 U |
| 1,3-Dichlorobenzene | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 1,4-Dichlorobenzene | | 400 U | NA | 69 % | 65 % | 380 U | 530 U |
| Benzyl alcohol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 1,2-Dichlorobenzene | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 2-Methylphenol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| bis(2-Chloroisopropyl)ether | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 4-Methylphenol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| N-Nitroso-Di-n-propylamine | | 400 U | NA | 77 % | 65 % | 380 U | 530 U |
| Hexachloroethane | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| Nitrobenzene | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| Isophorone | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 2-Nitrophenol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 2,4-Dimethylphenol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| Benzoic acid | | 2000 U | NA | 2000 U | 2000 U | 1900 U | 2700 U |
| bis(2-Chloroethoxy)methane | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 2,4-Dichlorophenol | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 1,2,4-Trichlorobenzene | | 400 U | NA | 87 % | 78 % | 380 U | 530 U |
| Naphthalene | | 140 J | NA | 190 J | 47 J | 49 J | 530 U |
| 4-Chloroaniline | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| Hexachlorobutadiene | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |
| 4-Chloro-3-methylphenol | | 400 U | NA | 71 % | 73 % | 380 U | 530 U |
| 2-Methylnaphthalene | | 91 J | NA | 260 J | 85 J | 61 J | 530 U |
| Hexachlorocyclopentadiene | | 400 U | NA | 400 U | 400 U | 380 U | 530 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 04000 3 | | LRSOTP 04000 3 | | LRSOTP 04000 3 | | LRSOTP 04000 3 | | LRSOTP 16000 4-G | | LRSOTP 16000 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 001 DL | | 001 MS | | 001 MSD | | 002 | | 003 | |
| 2,4,6-Trichlorophenol | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 2,4,5-Trichlorophenol | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| 2-Chloronaphthalene | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 2-Nitroaniline | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| Dimethylphthalate | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Acenaphthylene | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 2,6-Dinitrotoluene | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 3-Nitroaniline | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| Acenaphthene | 530 | | NA | | 55 | % | 55 | % | 380 | U | 530 | U |
| 2,4-Dinitrophenol | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| 4-Nitrophenol | 2000 | U | NA | | 69 | % | 62 | % | 1900 | U | 2700 | U |
| Dibenzofuran | 230 | J | NA | | 52 | J | 69 | J | 380 | U | 530 | U |
| 2,4-Dinitrotoluene | 400 | U | NA | | 30 | % | 27 * | % | 380 | U | 530 | U |
| Diethylphthalate | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 4-Chlorophenyl-phenylether | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Fluorene | 420 | | NA | | 150 | J | 110 | J | 380 | U | 530 | U |
| 4-Nitroaniline | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| 4,6-Dinitro-2-methylphenol | 2000 | U | NA | | 2000 | U | 2000 | U | 1900 | U | 2700 | U |
| N-Nitrosodiphenylamine (1) | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 4-Bromophenyl-phenylether | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Hexachlorobenzene | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Pentachlorophenol | 2000 | U | NA | | 14 * | % | 11 * | % | 1900 | U | 2700 | U |
| Phenanthrene | 3600 | | NA | | 3900 | | 1000 | | 380 | U | 530 | U |
| Anthracene | 750 | | NA | | 1400 | | 240 | J | 380 | U | 530 | U |
| Di-n-Butylphthalate | 58 | J | NA | | 61 | J | 52 | J | 64 | J | 230 | J |
| Fluoranthene | 4300 | | NA | | | E | 1300 | | 380 | U | 530 | U |
| Pyrene | | E | 5700 | | 2390 * | E% | 0 * | E% | 380 | U | 62 | J |
| Butylbenzylphthalate | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| 3,3'-Dichlorobenzidine | 810 | U | NA | | 810 | U | 810 | U | 760 | U | 1100 | U |
| Benzo(a)anthracene | 2400 | | NA | | | E | 820 | | 380 | U | 530 | U |
| Chrysene | 2000 | | NA | | | E | 730 | | 380 | U | 530 | U |
| bis(2-Ethylhexyl)phthalate | 140 | J | NA | | 300 | J | 210 | J | 120 | J | 170 | J |
| Di-n-Octyl phthalate | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Benzo(b)fluoranthene | 2300 | | NA | | | E | 910 | | 380 | U | 530 | U |
| Benzo(k)fluoranthene | 720 | | NA | | 4700 | | 450 | | 380 | U | 530 | U |
| Benzo(a)pyrene | 1600 | | NA | | | E | 670 | | 380 | U | 530 | U |
| Indeno(1,2,3-cd)pyrene | 750 | | NA | | | E | 2000 | | 380 | U | 530 | U |
| Dibenzo(a,h)anthracene | 400 | U | NA | | 400 | U | 400 | U | 380 | U | 530 | U |
| Benzo(g,h,i)perylene | 4600 | | NA | | | E | 3200 | | 380 | U | 530 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 05011 4 | LRSOTP 14010 2-G | LRSOTP 10011 2 | LRSOTP 11010 4 | LRSOTP 11010 4 | LRSOTP 14010 8 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 004 | 005 | 006 | 007 | 007 DL | 008 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 50.0 | 10.0 | 10.0 | 50.0 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 57 % | NA % | 77 % | 69 % | D % | 56 % |
| | 2-Fluorobiphenyl | 59 % | NA % | 70 % | 69 % | D % | 57 % |
| | Terphenyl-d14 | 146 * % | NA % | 142 * % | 167 * % | D % | 148 * % |
| | Phenol-d5 | 52 % | NA % | 73 % | 70 % | D % | 52 % |
| | 2-Fluorophenol | 47 % | NA % | 80 % | 71 % | D % | 46 % |
| | 2,4,6-Br3-phenol | 32 % | NA % | 59 % | 64 % | D % | 36 % |
| Phenol | | 580 U | 930000 U | 1200 J | 4900 U | NA | 500 U |
| bis(2-Chloroethyl)ether | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2-Chlorophenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 1,3-Dichlorobenzene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 1,4-Dichlorobenzene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Benzyl alcohol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 1,2-Dichlorobenzene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2-Methylphenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| bis(2-Chloroisopropyl)ether | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 4-Methylphenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| N-Nitroso-Di-n-propylamine | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Hexachloroethane | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Nitrobenzene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Isophorone | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2-Nitrophenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2,4-Dimethylphenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Benzoic acid | | 2900 U | 4700000 U | 22000 U | 25000 U | NA | 2500 U |
| bis(2-Chloroethoxy)methane | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2,4-Dichlorophenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 1,2,4-Trichlorobenzene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Naphthalene | | 110 J | 170000 J | 1800 J | 1100 J | NA | 160 J |
| 4-Chloroaniline | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| Hexachlorobutadiene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 4-Chloro-3-methylphenol | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |
| 2-Methylnaphthalene | | 140 J | 930000 U | 1500 J | 600 J | NA | 120 J |
| Hexachlorocyclopentadiene | | 580 U | 930000 U | 4400 U | 4900 U | NA | 500 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 05011 4 | | LRSOTP 14010 2-G | | LRSOTP 10011 2 | | LRSOTP 11010 4 | | LRSOTP 11010 4 | LRSOTP 14010 8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 004 | | 005 | | 006 | | 007 | | 007 DL | 008 | |
| 2,4,6-Trichlorophenol | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 2,4,5-Trichlorophenol | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| 2-Chloronaphthalene | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 2-Nitroaniline | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| Dimethylphthalate | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Acenaphthylene | 580 | U | 930000 | U | 4400 | U | 530 | J | NA | 500 | U |
| 2,6-Dinitrotoluene | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 3-Nitroaniline | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| Acenaphthene | 580 | U | 930000 | U | 6300 | | 6200 | | NA | 60 | J |
| 2,4-Dinitrophenol | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| 4-Nitrophenol | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| Dibenzofuran | 75 | J | 930000 | U | 5400 | | 4100 | J | NA | 500 | U |
| 2,4-Dinitrotoluene | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Diethylphthalate | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 4-Chlorophenyl-phenylether | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Fluorene | 580 | U | 930000 | U | 7600 | | 6000 | | NA | 93 | J |
| 4-Nitroaniline | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| 4,6-Dinitro-2-methylphenol | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| N-Nitrosodiphenylamine (1) | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 4-Bromophenyl-phenylether | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Hexachlorobenzene | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Pentachlorophenol | 2900 | U | 4700000 | U | 22000 | U | 25000 | U | NA | 2500 | U |
| Phenanthrene | 620 | | 930000 | U | 19000 | | | E | 130000 | 540 | |
| Anthracene | 580 | U | 930000 | U | 2400 | J | 23000 | | NA | 110 | J |
| Di-n-Butylphthalate | 580 | U | 930000 | U | 770 | J | 11000 | | NA | 93 | J |
| Fluoranthene | 810 | | 930000 | U | 18000 | | | E | 290000 | 470 | J |
| Pyrene | 2700 | | 930000 | U | 28000 | | | E | 230000 | 1400 | |
| Butylbenzylphthalate | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| 3,3'-Dichlorobenzidine | 1200 | U | 1900000 | U | 8700 | U | 9800 | U | NA | 1000 | U |
| Benzo(a)anthracene | 270 | J | 930000 | U | 6100 | | | E | 200000 | 340 | J |
| Chrysene | 430 | J | 930000 | U | 5000 | | | E | 220000 | 400 | J |
| bis(2-Ethylhexyl)phthalate | 440 | J | 930000 | U | 2400 | J | 4900 | U | NA | 380 | J |
| Di-n-Octyl phthalate | 580 | U | 930000 | U | 4400 | U | 4900 | U | NA | 500 | U |
| Benzo(b)fluoranthene | 580 | U | 930000 | U | 4400 | U | | E | 240000 | 500 | U |
| Benzo(k)fluoranthene | 580 | U | 930000 | U | 4400 | U | | E | 100000 | 500 | U |
| Benzo(a)pyrene | 580 | U | 930000 | U | 4400 | U | | E | 210000 | 500 | U |
| Indeno(1,2,3-cd)pyrene | 580 | U | 930000 | U | 4400 | U | | E | 170000 | 500 | U |
| Dibenzo(a,h)anthracene | 580 | U | 930000 | U | 4400 | U | 75000 | | NA | 500 | U |
| Benzo(g,h,i)perylene | 580 | U | 930000 | U | 4400 | U | | E | 200000 | 500 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| | Cust ID: | LRSOTP 15020 6 | | LRSOTP 07010 6 | | LRSOTP 06010 8 | | SBLK | | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Information | RFW#: | 009 | | 010 | | 011 | | 91GB0235-MB1 | | 91GB0235-MB1 | | 91GB0235-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 10.0 | | 10.0 | | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Nitrobenzene-d5 | 58 | % | 66 | % | 68 | % | 70 | % | 71 | % | 72 | % |
| | 2-Fluorobiphenyl | 61 | % | 71 | % | 70 | % | 58 | % | 65 | % | 67 | % |
| | Terphenyl-d14 | 126 | % | 103 | % | 129 | % | 66 | % | 111 | % | 106 | % |
| | Phenol-d5 | 59 | % | 66 | % | 58 | % | 63 | % | 70 | % | 73 | % |
| | 2-Fluorophenol | 56 | % | 65 | % | 43 | % | 61 | % | 72 | % | 75 | % |
| | 2,4,6-Br3-phenol | 28 | % | 50 | % | 53 | % | 46 | % | 67 | % | 61 | % |
| Phenol | | 420 | U | 3900 | U | 580 | J | 330 | U | 69 | % | 73 | % |
| bis(2-Chloroethyl)ether | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2-Chlorophenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 69 | % | 70 | % |
| 1,3-Dichlorobenzene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 1,4-Dichlorobenzene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 68 | % | 71 | % |
| Benzyl alcohol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 1,2-Dichlorobenzene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2-Methylphenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| bis(2-Chloroisopropyl)ether | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 4-Methylphenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| N-Nitroso-Di-n-propylamine | | 420 | U | 3900 | U | 4300 | U | 330 | U | 75 | % | 79 | % |
| Hexachloroethane | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Nitrobenzene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Isophorone | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2-Nitrophenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2,4-Dimethylphenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Benzoic acid | | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| bis(2-Chloroethoxy)methane | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2,4-Dichlorophenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 1,2,4-Trichlorobenzene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 81 | % | 82 | % |
| Naphthalene | | 420 | U | 560 | J | 6700 | | 330 | U | 330 | U | 330 | U |
| 4-Chloroaniline | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Hexachlorobutadiene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 4-Chloro-3-methylphenol | | 420 | U | 3900 | U | 4300 | U | 330 | U | 73 | % | 70 | % |
| 2-Methylnaphthalene | | 420 | U | 540 | J | 13000 | | 330 | U | 330 | U | 330 | U |
| Hexachlorocyclopentadiene | | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 15020 6 | | LRSOTP 07010 6 | | LRSOTP 06010 8 | | SBLK | | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 009 | | 010 | | 011 | | 91GB0235-MB1 | | 91GB0235-MB1 | | 91GB0235-MB1 | |
| 2,4,6-Trichlorophenol | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2,4,5-Trichlorophenol | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| 2-Chloronaphthalene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2-Nitroaniline | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| Dimethylphthalate | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Acenaphthylene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 2,6-Dinitrotoluene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 3-Nitroaniline | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| Acenaphthene | 420 | U | 1200 | J | 2400 | J | 330 | U | 73 | % | 76 | % |
| 2,4-Dinitrophenol | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| 4-Nitrophenol | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 67 | % | 65 | % |
| Dibenzofuran | 420 | U | 840 | J | 1400 | J | 330 | U | 330 | U | 330 | U |
| 2,4-Dinitrotoluene | 420 | U | 3900 | U | 4300 | U | 330 | U | 53 | % | 53 | % |
| Diethylphthalate | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 4-Chlorophenyl-phenylether | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Fluorene | 420 | U | 1300 | J | 3300 | J | 330 | U | 330 | U | 330 | U |
| 4-Nitroaniline | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 1700 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 4-Bromophenyl-phenylether | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Hexachlorobenzene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Pentachlorophenol | 2100 | U | 19000 | U | 21000 | U | 1700 | U | 77 | % | 69 | % |
| Phenanthrene | 420 | U | 5900 | | 15000 | | 330 | U | 330 | U | 330 | U |
| Anthracene | 420 | U | 810 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| Di-n-Butylphthalate | 420 | U | 3900 | U | 2300 | J | 330 | U | 330 | U | 330 | U |
| Fluoranthene | 78 | J | 5600 | | 8400 | | 330 | U | 330 | U | 330 | U |
| Pyrene | 140 | J | 5600 | | 14000 | | 330 | U | 118 | % | 112 | % |
| Butylbenzylphthalate | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| 3,3'-Dichlorobenzidine | 840 | U | 7700 | U | 8600 | U | 670 | U | 670 | U | 670 | U |
| Benzo(a)anthracene | 78 | J | 3000 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| Chrysene | 90 | J | 1800 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | 140 | J | 1300 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| Di-n-Octyl phthalate | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 420 | U | 2900 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 420 | U | 990 | J | 4300 | U | 330 | U | 330 | U | 330 | U |
| Benzo(a)pyrene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |
| Benzo(g,h,i)perylene | 420 | U | 3900 | U | 4300 | U | 330 | U | 330 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: SBLK

Sample Information

RFW#: 91GB0248-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | NA | % |
| | 2-Fluorobiphenyl | NA | % |
| | Terphenyl-d14 | NA | % |
| | Phenol-d5 | NA | % |
| | 2-Fluorophenol | NA | % |
| | 2,4,6-Br3-phenol | NA | % |

| | | |
|---|---|---|
| Phenol | 330 | U |
| bis(2-Chloroethyl)ether | 330 | U |
| 2-Chlorophenol | 330 | U |
| 1,3-Dichlorobenzene | 330 | U |
| 1,4-Dichlorobenzene | 330 | U |
| Benzyl alcohol | 330 | U |
| 1,2-Dichlorobenzene | 330 | U |
| 2-Methylphenol | 330 | U |
| bis(2-Chloroisopropyl)ether | 330 | U |
| 4-Methylphenol | 330 | U |
| N-Nitroso-Di-n-propylamine | 330 | U |
| Hexachloroethane | 330 | U |
| Nitrobenzene | 330 | U |
| Isophorone | 330 | U |
| 2-Nitrophenol | 330 | U |
| 2,4-Dimethylphenol | 330 | U |
| Benzoic acid | 1700 | U |
| bis(2-Chloroethoxy)methane | 330 | U |
| 2,4-Dichlorophenol | 330 | U |
| 1,2,4-Trichlorobenzene | 330 | U |
| Naphthalene | 330 | U |
| 4-Chloroaniline | 330 | U |
| Hexachlorobutadiene | 330 | U |
| 4-Chloro-3-methylphenol | 330 | U |
| 2-Methylnaphthalene | 330 | U |
| Hexachlorocyclopentadiene | 330 | U |

*= Outside of EPA CLP QC limits.

Cust ID: SBLK

RFW#: 91GB0248-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 330 | U |
| 2,4,5-Trichlorophenol | 1700 | U |
| 2-Chloronaphthalene | 330 | U |
| 2-Nitroaniline | 1700 | U |
| Dimethylphthalate | 330 | U |
| Acenaphthylene | 330 | U |
| 2,6-Dinitrotoluene | 330 | U |
| 3-Nitroaniline | 1700 | U |
| Acenaphthene | 330 | U |
| 2,4-Dinitrophenol | 1700 | U |
| 4-Nitrophenol | 1700 | U |
| Dibenzofuran | 330 | U |
| 2,4-Dinitrotoluene | 330 | U |
| Diethylphthalate | 330 | U |
| 4-Chlorophenyl-phenylether | 330 | U |
| Fluorene | 330 | U |
| 4-Nitroaniline | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 1700 | U |
| N-Nitrosodiphenylamine (1) | 330 | U |
| 4-Bromophenyl-phenylether | 330 | U |
| Hexachlorobenzene | 330 | U |
| Pentachlorophenol | 1700 | U |
| Phenanthrene | 330 | U |
| Anthracene | 330 | U |
| Di-n-Butylphthalate | 330 | U |
| Fluoranthene | 330 | U |
| Pyrene | 330 | U |
| Butylbenzylphthalate | 330 | U |
| 3,3'-Dichlorobenzidine | 670 | U |
| Benzo(a)anthracene | 330 | U |
| Chrysene | 330 | U |
| bis(2-Ethylhexyl)phthalate | 330 | U |
| Di-n-Octyl phthalate | 330 | U |
| Benzo(b)fluoranthene | 330 | U |
| Benzo(k)fluoranthene | 330 | U |
| Benzo(a)pyrene | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | U |
| Dibenzo(a,h)anthracene | 330 | U |
| Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G073 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/13/91 21:17 Page: 1a

| Sample Information | Cust ID: | LRSOTP 08-06 07G | LRSOTP 08-06 07G | LRSOTP 08-03 09 | LRSOTP 08-03 09 | LRSOTP 12 0107 | LRSOTP 12 0107 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 DL | 002 | 002 DL | 003 | 003 MS |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 250 | 1000 | 10.0 | 20.0 | 10.0 | 10.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | D % | D % | 100 % | D % | 74 % | 62 % |
| | 2-Fluorobiphenyl | D % | D % | 81 % | D % | 76 % | 75 % |
| | Terphenyl-d14 | D % | D % | 137 % | D % | 119 % | 130 % |
| | Phenol-d5 | D % | D % | 83 % | D % | 75 % | 71 % |
| | 2-Fluorophenol | D % | D % | 81 % | D % | 71 % | 56 % |
| | 2,4,6-Br3-phenol | D % | D % | 67 % | D % | 59 % | 55 % |
| Phenol | | 120000 U | NA | 4400 U | NA | 4400 U | 82 % |
| bis(2-Chloroethyl)ether | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 2-Chlorophenol | | 120000 U | NA | 4400 U | NA | 4400 U | 70 % |
| 1,3-Dichlorobenzene | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 1,4-Dichlorobenzene | | 120000 U | NA | 4400 U | NA | 4400 U | 63 % |
| Benzyl alcohol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 1,2-Dichlorobenzene | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 2-Methylphenol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| bis(2-Chloroisopropyl)ether | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 4-Methylphenol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| N-Nitroso-Di-n-propylamine | | 120000 U | NA | 4400 U | NA | 4400 U | 76 % |
| Hexachloroethane | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| Nitrobenzene | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| Isophorone | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 2-Nitrophenol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 2,4-Dimethylphenol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| Benzoic acid | | 620000 U | NA | 22000 U | NA | 22000 U | 22000 U |
| bis(2-Chloroethoxy)methane | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 2,4-Dichlorophenol | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 1,2,4-Trichlorobenzene | | 87000 J | NA | 670 J | NA | 4400 U | 89 % |
| Naphthalene | | 280000 | NA | 8600 | NA | 4400 U | 4300 U |
| 4-Chloroaniline | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| Hexachlorobutadiene | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |
| 4-Chloro-3-methylphenol | | 120000 U | NA | 4400 U | NA | 4400 U | 73 % |
| 2-Methylnaphthalene | | 41000 J | NA | 2400 J | NA | 4400 U | 4300 U |
| Hexachlorocyclopentadiene | | 120000 U | NA | 4400 U | NA | 4400 U | 4300 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 08-06 07G | | LRSOTP 08-06 07G | | LRSOTP 08-03 09 | | LRSOTP 08-03 09 | | LRSOTP 12 0107 | | LRSOTP 12 0107 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 001 DL | | 002 | | 002 DL | | 003 | | 003 MS | |
| 2,4,6-Trichlorophenol | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 2,4,5-Trichlorophenol | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| 2-Chloronaphthalene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 2-Nitroaniline | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| Dimethylphthalate | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Acenaphthylene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 2,6-Dinitrotoluene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 3-Nitroaniline | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| Acenaphthene | 120000 | U | NA | | 6400 | | NA | | 4400 | U | 89 | % |
| 2,4-Dinitrophenol | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| 4-Nitrophenol | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 44 | % |
| Dibenzofuran | 120000 | U | NA | | 6000 | | NA | | 4400 | U | 4300 | U |
| 2,4-Dinitrotoluene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 22 * | % |
| Diethylphthalate | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 4-Chlorophenyl-phenylether | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Fluorene | 120000 | U | NA | | 10000 | | NA | | 4400 | U | 4300 | U |
| 4-Nitroaniline | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| 4,6-Dinitro-2-methylphenol | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 22000 | U |
| N-Nitrosodiphenylamine (1) | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 4-Bromophenyl-phenylether | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Hexachlorobenzene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Pentachlorophenol | 620000 | U | NA | | 22000 | U | NA | | 22000 | U | 13 * | % |
| Phenanthrene | 33000 | J | NA | | | E | 81000 | | 2400 | J | 1100 | J |
| Anthracene | 120000 | U | NA | | 8200 | | NA | | 550 | J | 290 | J |
| Di-n-Butylphthalate | | E | 4700000 | | 30000 | | NA | | 4400 | U | 4300 | U |
| Fluoranthene | 17000 | J | NA | | | E | 110000 | | 4100 | J | 1900 | J |
| Pyrene | 22000 | J | NA | | | E | 130000 | | 4400 | | 45 | % |
| Butylbenzylphthalate | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| 3,3'-Dichlorobenzidine | 250000 | U | NA | | 8800 | U | NA | | 8700 | U | 8700 | U |
| Benzo(a)anthracene | 120000 | U | NA | | 30000 | | NA | | 2200 | J | 1200 | J |
| Chrysene | 120000 | U | NA | | 25000 | | NA | | 2000 | J | 1300 | J |
| bis(2-Ethylhexyl)phthalate | 21000 | J | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Di-n-Octyl phthalate | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Benzo(b)fluoranthene | 120000 | U | NA | | 21000 | | NA | | 4400 | U | 4300 | U |
| Benzo(k)fluoranthene | 120000 | U | NA | | 10000 | | NA | | 4400 | U | 4300 | U |
| Benzo(a)pyrene | 120000 | U | NA | | 11000 | | NA | | 4400 | U | 4300 | U |
| Indeno(1,2,3-cd)pyrene | 120000 | U | NA | | 9800 | | NA | | 4400 | U | 4300 | U |
| Dibenzo(a,h)anthracene | 120000 | U | NA | | 4400 | U | NA | | 4400 | U | 4300 | U |
| Benzo(g,h,i)perylene | 120000 | U | NA | | 9500 | | NA | | 4400 | U | 4300 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G073 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/13/91 21:17 Page: 2a

| Sample Information | Cust ID: | LRSOTP 12 0107 | LRSOTP 12 0800-G | LRSOTP 13 0207 | LRSOTP 13 0207 | LRSOTP 13 0400-G | SBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 003 MSD | 004 | 005 | 005 DL | 006 | 91GB0233-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 50.0 | 10.0 | 20.0 | 250 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 64 % | D % | 112 % | D % | D % | 46 % |
| | 2-Fluorobiphenyl | 79 % | D % | 69 % | D % | D % | 46 % |
| | Terphenyl-d14 | 141 * % | D % | 138 * % | D % | D % | 65 % |
| | Phenol-d5 | 72 % | D % | 56 % | D % | D % | 45 % |
| | 2-Fluorophenol | 56 % | D % | 72 % | D % | D % | 44 % |
| | 2,4,6-Br3-phenol | 55 % | D % | 75 % | D % | D % | 50 % |
| Phenol | | 76 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| bis(2-Chloroethyl)ether | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2-Chlorophenol | | 73 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 1,3-Dichlorobenzene | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 1,4-Dichlorobenzene | | 69 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Benzyl alcohol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 1,2-Dichlorobenzene | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2-Methylphenol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| bis(2-Chloroisopropyl)ether | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 4-Methylphenol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| N-Nitroso-Di-n-propylamine | | 83 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Hexachloroethane | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Nitrobenzene | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Isophorone | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2-Nitrophenol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2,4-Dimethylphenol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Benzoic acid | | 22000 U | 96000 U | 24000 U | NA | 520000 U | 1700 U |
| bis(2-Chloroethoxy)methane | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2,4-Dichlorophenol | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 1,2,4-Trichlorobenzene | | 94 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Naphthalene | | 4300 U | 9200 J | 7400 | NA | 380000 | 330 U |
| 4-Chloroaniline | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| Hexachlorobutadiene | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 4-Chloro-3-methylphenol | | 75 % | 19000 U | 4800 U | NA | 100000 U | 330 U |
| 2-Methylnaphthalene | | 4300 U | 20000 | 3200 J | NA | 71000 J | 330 U |
| Hexachlorocyclopentadiene | | 4300 U | 19000 U | 4800 U | NA | 100000 U | 330 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSOTP 12 | | LRSOTP 12 | | LRSOTP 13 | | LRSOTP 13 | | LRSOTP 13 | | SBLK | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0107 | | 0800-G | | 0207 | | 0207 | | 0400-G | | | |
| RFW#: | 003 MSD | | 004 | | 005 | | 005 DL | | 006 | | 91GB0233-MB1 | |
| 2,4,6-Trichlorophenol | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 2,4,5-Trichlorophenol | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| 2-Chloronaphthalene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 2-Nitroaniline | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| Dimethylphthalate | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Acenaphthylene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 2,6-Dinitrotoluene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 3-Nitroaniline | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| Acenaphthene | 125 | % | 8000 | J | 4600 | J | NA | | 22000 | J | 330 | U |
| 2,4-Dinitrophenol | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| 4-Nitrophenol | 64 | % | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| Dibenzofuran | 4300 | U | 6300 | J | 2100 | J | NA | | 20000 | J | 330 | U |
| 2,4-Dinitrotoluene | 19 * | % | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Diethylphthalate | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 4-Chlorophenyl-phenylether | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Fluorene | 4300 | U | 11000 | J | 4400 | J | NA | | 25000 | J | 330 | U |
| 4-Nitroaniline | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 22000 | U | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 4-Bromophenyl-phenylether | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Hexachlorobenzene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Pentachlorophenol | 18 | % | 96000 | U | 24000 | U | NA | | 520000 | U | 1700 | U |
| Phenanthrene | 7800 | | 55000 | | 12000 | | NA | | 75000 | J | 330 | U |
| Anthracene | 1600 | J | 5200 | J | 1700 | J | NA | | 12000 | J | 330 | U |
| Di-n-Butylphthalate | 4300 | U | 19000 | U | | E | 95000 | | 110000 | | 330 | U |
| Fluoranthene | 9800 | | 36000 | | 16000 | | NA | | 37000 | J | 330 | U |
| Pyrene | 531 * | % | 59000 | | 22000 | | NA | | 32000 | J | 330 | U |
| Butylbenzylphthalate | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| 3,3'-Dichlorobenzidine | 8700 | U | 38000 | U | 9500 | U | NA | | 210000 | U | 670 | U |
| Benzo(a)anthracene | 5300 | | 22000 | | 6500 | | NA | | 100000 | U | 330 | U |
| Chrysene | 4500 | | 21000 | | 5900 | | NA | | 100000 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | 4300 | U | 19000 | U | 31000 | | NA | | 35000 | J | 330 | U |
| Di-n-Octyl phthalate | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Benzo(b)fluoranthene | 4300 | U | 16000 | J | 4800 | U | NA | | 100000 | U | 330 | U |
| Benzo(k)fluoranthene | 4300 | U | 10000 | J | 4800 | U | NA | | 100000 | U | 330 | U |
| Benzo(a)pyrene | 4300 | U | 12000 | J | 4800 | U | NA | | 100000 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Dibenzo(a,h)anthracene | 4300 | U | 19000 | U | 4800 | U | NA | | 100000 | U | 330 | U |
| Benzo(g,h,i)perylene | 4300 | U | 16000 | J | 4800 | U | NA | | 100000 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| | Cust ID: | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GB0233-MB1 | | 91GB0233-MB1 | |
| | Matrix: | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Nitrobenzene-d5 | 60 | % | 56 | % |
| | 2-Fluorobiphenyl | 58 | % | 58 | % |
| | Terphenyl-d14 | 86 | % | 98 | % |
| | Phenol-d5 | 60 | % | 61 | % |
| | 2-Fluorophenol | 62 | % | 64 | % |
| | 2,4,6-Br3-phenol | 63 | % | 61 | % |
| Phenol | | 56 | % | 63 | % |
| bis(2-Chloroethyl)ether | | 330 | U | 330 | U |
| 2-Chlorophenol | | 56 | % | 65 | % |
| 1,3-Dichlorobenzene | | 330 | U | 330 | U |
| 1,4-Dichlorobenzene | | 60 | % | 60 | % |
| Benzyl alcohol | | 330 | U | 330 | U |
| 1,2-Dichlorobenzene | | 330 | U | 330 | U |
| 2-Methylphenol | | 330 | U | 330 | U |
| bis(2-Chloroisopropyl)ether | | 330 | U | 330 | U |
| 4-Methylphenol | | 330 | U | 330 | U |
| N-Nitroso-Di-n-propylamine | | 60 | % | 61 | % |
| Hexachloroethane | | 330 | U | 330 | U |
| Nitrobenzene | | 330 | U | 330 | U |
| Isophorone | | 330 | U | 330 | U |
| 2-Nitrophenol | | 330 | U | 330 | U |
| 2,4-Dimethylphenol | | 330 | U | 330 | U |
| Benzoic acid | | 1700 | U | 1700 | U |
| bis(2-Chloroethoxy)methane | | 330 | U | 330 | U |
| 2,4-Dichlorophenol | | 330 | U | 330 | U |
| 1,2,4-Trichlorobenzene | | 72 | % | 72 | % |
| Naphthalene | | 330 | U | 330 | U |
| 4-Chloroaniline | | 330 | U | 330 | U |
| Hexachlorobutadiene | | 330 | U | 330 | U |
| 4-Chloro-3-methylphenol | | 61 | % | 65 | % |
| 2-Methylnaphthalene | | 330 | U | 330 | U |
| Hexachlorocyclopentadiene | | 330 | U | 330 | U |

*= Outside of EPA CLP QC limits.

| | Cust ID: | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|
| | RFW#: | 91GB0233-MB1 | | 91GB0233-MB1 | |
| 2,4,6-Trichlorophenol | | 330 | U | 330 | U |
| 2,4,5-Trichlorophenol | | 1700 | U | 1700 | U |
| 2-Chloronaphthalene | | 330 | U | 330 | U |
| 2-Nitroaniline | | 1700 | U | 1700 | U |
| Dimethylphthalate | | 330 | U | 330 | U |
| Acenaphthylene | | 330 | U | 330 | U |
| 2,6-Dinitrotoluene | | 330 | U | 330 | U |
| 3-Nitroaniline | | 1700 | U | 1700 | U |
| Acenaphthene | | 65 | % | 69 | % |
| 2,4-Dinitrophenol | | 1700 | U | 1700 | U |
| 4-Nitrophenol | | 57 | % | 57 | % |
| Dibenzofuran | | 330 | U | 330 | U |
| 2,4-Dinitrotoluene | | 48 | % | 36 | % |
| Diethylphthalate | | 330 | U | 330 | U |
| 4-Chlorophenyl-phenylether | | 330 | U | 330 | U |
| Fluorene | | 330 | U | 330 | U |
| 4-Nitroaniline | | 1700 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | | 1700 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | | 330 | U | 330 | U |
| 4-Bromophenyl-phenylether | | 330 | U | 330 | U |
| Hexachlorobenzene | | 330 | U | 330 | U |
| Pentachlorophenol | | 55 | % | 67 | % |
| Phenanthrene | | 330 | U | 330 | U |
| Anthracene | | 330 | U | 330 | U |
| Di-n-Butylphthalate | | 330 | U | 330 | U |
| Fluoranthene | | 330 | U | 330 | U |
| Pyrene | | 91 | % | 103 | % |
| Butylbenzylphthalate | | 330 | U | 330 | U |
| 3,3'-Dichlorobenzidine | | 670 | U | 670 | U |
| Benzo(a)anthracene | | 330 | U | 330 | U |
| Chrysene | | 330 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | | 330 | U | 330 | U |
| Di-n-Octyl phthalate | | 330 | U | 330 | U |
| Benzo(b)fluoranthene | | 330 | U | 330 | U |
| Benzo(k)fluoranthene | | 330 | U | 330 | U |
| Benzo(a)pyrene | | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | | 330 | U | 330 | U |
| Benzo(g,h,i)perylene | | 330 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G243 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/19/91 14:21 Page: 1a

| Sample Information | Cust ID: | LRS0-TP17-00 04 | LRS0-TP03-01 09 | LRS0-TP03-01 09 | LRS0-TP02-00 02-G | LRS0-TP02-00 03 | LRS0-TP09-00 05 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 002 DL | 003 | 004 | 005 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 2.00 | 5.00 | 2.00 | 10.0 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 94 % | 53 % | D % | 82 % | 80 % | 70 % |
| | 2-Fluorobiphenyl | 82 % | 52 % | D % | 75 % | 71 % | 67 % |
| | Terphenyl-d14 | 136 % | 85 % | D % | 131 % | 101 % | 94 % |
| | Phenol-d5 | 78 % | 38 % | D % | 70 % | 70 % | 50 % |
| | 2-Fluorophenol | 92 % | 34 % | D % | 74 % | 54 % | 40 % |
| | 2,4,6-Br3-phenol | 74 % | 18 * % | D % | 62 % | 43 % | 19 % |
| Phenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| bis(2-Chloroethyl)ether | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2-Chlorophenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 1,3-Dichlorobenzene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 1,4-Dichlorobenzene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Benzyl alcohol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 1,2-Dichlorobenzene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2-Methylphenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| bis(2-Chloroisopropyl)ether | | 4500 U | 460 J | NA | 1100 U | 5200 U | 490 U |
| 4-Methylphenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| N-Nitroso-Di-n-propylamine | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Hexachloroethane | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Nitrobenzene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Isophorone | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2-Nitrophenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2,4-Dimethylphenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Benzoic acid | | 22000 U | 6100 U | NA | 5600 U | 26000 U | 2400 U |
| bis(2-Chloroethoxy)methane | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2,4-Dichlorophenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 1,2,4-Trichlorobenzene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Naphthalene | | 3500 J | 1700 | NA | 140 J | 5200 U | 490 U |
| 4-Chloroaniline | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| Hexachlorobutadiene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 4-Chloro-3-methylphenol | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |
| 2-Methylnaphthalene | | 2100 J | 620 J | NA | 1100 U | 5200 U | 490 U |
| Hexachlorocyclopentadiene | | 4500 U | 1200 U | NA | 1100 U | 5200 U | 490 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO-TP17-00 04 | | LRSO-TP03-01 09 | | LRSO-TP03-01 09 | | LRSO-TP02-00 02-G | | LRSO-TP02-00 03 | | LRSO-TP09-00 05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 002 | | 002 DL | | 003 | | 004 | | 005 | |
| 2,4,6-Trichlorophenol | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 2,4,5-Trichlorophenol | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| 2-Chloronaphthalene | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 2-Nitroaniline | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| Dimethylphthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Acenaphthylene | 660 | J | 160 | J | NA | | 1100 | U | 5200 | U | 490 | U |
| 2,6-Dinitrotoluene | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 3-Nitroaniline | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| Acenaphthene | 6500 | | 2800 | | NA | | 700 | J | 5200 | U | 490 | U |
| 2,4-Dinitrophenol | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| 4-Nitrophenol | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| Dibenzofuran | 5200 | | 1600 | | NA | | 330 | J | 5200 | U | 490 | U |
| 2,4-Dinitrotoluene | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Diethylphthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 4-Chlorophenyl-phenylether | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Fluorene | 7600 | | 2500 | | NA | | 570 | J | 5200 | U | 490 | U |
| 4-Nitroaniline | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| 4,6-Dinitro-2-methylphenol | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| N-Nitrosodiphenylamine (1) | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 4-Bromophenyl-phenylether | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Hexachlorobenzene | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Pentachlorophenol | 22000 | U | 6100 | U | NA | | 5600 | U | 26000 | U | 2400 | U |
| Phenanthrene | 44000 | | | E | 30000 | | 5700 | | 970 | J | 490 | U |
| Anthracene | 7400 | | 4600 | | NA | | 1200 | | 5200 | U | 490 | U |
| Di-n-Butylphthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Fluoranthene | 43000 | | 15000 | | NA | | 6300 | | 1500 | J | 490 | U |
| Pyrene | 63000 | | | E | 30000 | | 9500 | | 2000 | J | 490 | U |
| Butylbenzylphthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| 3,3'-Dichlorobenzidine | 8900 | U | 2400 | U | NA | | 2200 | U | 10000 | U | 970 | U |
| Benzo(a)anthracene | 34000 | | 15000 | | NA | | 5700 | | 5200 | U | 490 | U |
| Chrysene | 24000 | | 8100 | | NA | | 2900 | | 1200 | J | 490 | U |
| bis(2-Ethylhexyl)phthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 98 | J |
| Di-n-Octyl phthalate | 4500 | U | 1200 | U | NA | | 1100 | U | 5200 | U | 490 | U |
| Benzo(b)fluoranthene | 25000 | | 8700 | | NA | | 3800 | | 5200 | U | 490 | U |
| Benzo(k)fluoranthene | 5700 | | 2500 | | NA | | 1700 | | 5200 | U | 490 | U |
| Benzo(a)pyrene | 20000 | | 8000 | | NA | | 2800 | | 5200 | U | 490 | U |
| Indeno(1,2,3-cd)pyrene | 26000 | | 7700 | | NA | | 5900 | | 5200 | U | 490 | U |
| Dibenzo(a,h)anthracene | 13000 | | 1700 | | NA | | 2700 | | 5200 | U | 490 | U |
| Benzo(g,h,i)perylene | 36000 | | 8300 | | NA | | 6900 | | 5200 | U | 490 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G243 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/19/91 14:21 Page: 2a

| Sample Information | Cust ID: | LRS0-TP01-0009 | LRS0-TP01-0003-G | LRS0-TP18-0010-G | LRS0-TP18-0010-G | LRS0-TP18-0010-G | LRS0-TP18-0010 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 006 | 007 | 008 | 008 MS | 008 MSD | 009 |
| | Matrix: | SOIL | SOLID | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 5.00 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 73 % | 96 % | 99 % | 94 % | 94 % | 76 % |
| | 2-Fluorobiphenyl | 72 % | 73 % | 78 % | 84 % | 79 % | 76 % |
| | Terphenyl-d14 | 108 % | 115 % | 122 % | 123 % | 122 % | 114 % |
| | Phenol-d5 | 67 % | 72 % | 76 % | 84 % | 82 % | 70 % |
| | 2-Fluorophenol | 75 % | 84 % | 89 % | 87 % | 90 % | 77 % |
| | 2,4,6-Br3-phenol | 64 % | 66 % | 66 % | 72 % | 68 % | 61 % |
| Phenol | | 2600 U | 4500 U | 4100 U | 81 % | 80 % | 4000 U |
| bis(2-Chloroethyl)ether | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 2-Chlorophenol | | 2600 U | 4500 U | 4100 U | 83 % | 81 % | 4000 U |
| 1,3-Dichlorobenzene | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 1,4-Dichlorobenzene | | 2600 U | 4500 U | 4100 U | 87 % | 84 % | 4000 U |
| Benzyl alcohol | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 1,2-Dichlorobenzene | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 2-Methylphenol | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| bis(2-Chloroisopropyl)ether | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 4-Methylphenol | | 2600 U | 4300 J | 4100 U | 4100 U | 4100 U | 4000 U |
| N-Nitroso-Di-n-propylamine | | 2600 U | 4500 U | 4100 U | 95 % | 88 % | 4000 U |
| Hexachloroethane | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| Nitrobenzene | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| Isophorone | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 2-Nitrophenol | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 2,4-Dimethylphenol | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| Benzoic acid | | 13000 U | 23000 U | 21000 U | 21000 U | 21000 U | 20000 U |
| bis(2-Chloroethoxy)methane | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 2,4-Dichlorophenol | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 1,2,4-Trichlorobenzene | | 2600 U | 4500 U | 4100 U | 109 * % | 107 % | 4000 U |
| Naphthalene | | 4600 | 24000 | 680 J | 510 J | 580 J | 4000 U |
| 4-Chloroaniline | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| Hexachlorobutadiene | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |
| 4-Chloro-3-methylphenol | | 2600 U | 4500 U | 4100 U | 84 % | 85 % | 4000 U |
| 2-Methylnaphthalene | | 3600 | 16000 | 4100 U | 4100 U | 4100 U | 4000 U |
| Hexachlorocyclopentadiene | | 2600 U | 4500 U | 4100 U | 4100 U | 4100 U | 4000 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO-TP01-00 09 | | LRSO-TP01-00 03-G | | LRSO-TP18-00 10-G | | LRSO-TP18-00 10-G | | LRSO-TP18-00 10-G | | LRSO-TP18-00 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 006 | | 007 | | 008 | | 008 MS | | 008 MSD | | 009 | |
| 2,4,6-Trichlorophenol | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 2,4,5-Trichlorophenol | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 20000 | U |
| 2-Chloronaphthalene | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 2-Nitroaniline | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 20000 | U |
| Dimethylphthalate | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| Acenaphthylene | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 2,6-Dinitrotoluene | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 3-Nitroaniline | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 4000 | U |
| Acenaphthene | 6600 | | 1600 | J | 800 | J | 81 | % | 133 | % | 20000 | U |
| 2,4-Dinitrophenol | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 20000 | U |
| 4-Nitrophenol | 13000 | U | 23000 | U | 21000 | U | 76 | % | 63 | % | 20000 | U |
| Dibenzofuran | 3400 | | 1300 | J | 570 | J | 510 | J | 1100 | J | 4000 | U |
| 2,4-Dinitrotoluene | 2600 | U | 4500 | U | 4100 | U | 30 | % | 30 | % | 4000 | U |
| Diethylphthalate | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 4-Chlorophenyl-phenylether | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| Fluorene | 5300 | | 1300 | J | 1100 | J | 870 | J | 2200 | J | 4000 | U |
| 4-Nitroaniline | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 20000 | U |
| 4,6-Dinitro-2-methylphenol | 13000 | U | 23000 | U | 21000 | U | 21000 | U | 21000 | U | 20000 | U |
| N-Nitrosodiphenylamine (1) | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 4-Bromophenyl-phenylether | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| Hexachlorobenzene | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| Pentachlorophenol | 13000 | U | 23000 | U | 21000 | U | 24 | % | 12 * | % | 20000 | U |
| Phenanthrene | 16000 | | 4000 | J | 11000 | | 10000 | | 25000 | | 1600 | J |
| Anthracene | 1800 | J | 560 | J | 2000 | J | 1700 | J | 4500 | | 4000 | U |
| Di-n-Butylphthalate | 2200 | J | 4500 | U | 510 | J | 450 | J | 480 | J | 4000 | U |
| Fluoranthene | 7300 | | 1600 | J | 20000 | | 18000 | | 33000 | | 2800 | J |
| Pyrene | 7700 | | 1700 | J | 25000 | | 0 * | % | 720 * | % | 4000 | |
| Butylbenzylphthalate | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| 3,3'-Dichlorobenzidine | 5100 | U | 9100 | U | 8300 | U | 8200 | U | 8200 | U | 8000 | U |
| Benzo(a)anthracene | 1500 | J | 4500 | U | 25000 | | 21000 | | 27000 | | 2800 | J |
| Chrysene | 820 | J | 810 | J | 21000 | | 18000 | | 23000 | | 2500 | J |
| bis(2-Ethylhexyl)phthalate | 2600 | U | 3100 | J | 4100 | U | 4100 | U | 4100 | U | 580 | J |
| Di-n-Octyl phthalate | 2600 | U | 4500 | U | 4100 | U | 4100 | U | 4100 | U | 4000 | U |
| Benzo(b)fluoranthene | 2600 | U | 4500 | U | 23000 | | 21000 | | 24000 | | 4000 | U |
| Benzo(k)fluoranthene | 2600 | U | 4500 | U | 9300 | | 9300 | | 10000 | | 4000 | U |
| Benzo(a)pyrene | 2600 | U | 4500 | U | 15000 | | 15000 | | 17000 | | 4000 | U |
| Indeno(1,2,3-cd)pyrene | 2600 | U | 4500 | U | 18000 | | 17000 | | 20000 | | 4000 | U |
| Dibenzo(a,h)anthracene | 2600 | U | 4500 | U | 5100 | | 9600 | | 9900 | | 4000 | U |
| Benzo(g,h,i)perylene | 2600 | U | 4500 | U | 18000 | | 16000 | | 19000 | | 4000 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G243 Client: GMAC Report Date: 06/19/91 14:21
Work Order: 1138-58-02-0000 Page: 3a

| Sample Information | Cust ID: | LRSO-TP19-0007 | LRSO-TP19-0005-G | LRSO-TP19-0005-G | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|---|---|---|---|
| | RFW#: | 010 | 011 | 011 DL | 91GB0246-MB1 | 91GB0246-MB1 | 91GB0246-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 10.0 | 20.0 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 71 % | 87 % | D % | 40 % | 74 % | 85 % |
| | 2-Fluorobiphenyl | 71 % | 89 % | D % | 41 % | 65 % | 69 % |
| | Terphenyl-d14 | 114 % | 142 * % | D % | 84 % | 124 % | 122 % |
| | Phenol-d5 | 54 % | 74 % | D % | 44 % | 74 % | 80 % |
| | 2-Fluorophenol | 39 % | 76 % | D % | 43 % | 71 % | 76 % |
| | 2,4,6-Br3-phenol | 17 * % | 40 % | D % | 61 % | 80 % | 67 % |
| Phenol | | 5100 U | 3800 U | NA | 330 U | 71 % | 74 % |
| bis(2-Chloroethyl)ether | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 2-Chlorophenol | | 5100 U | 3800 U | NA | 330 U | 68 % | 73 % |
| 1,3-Dichlorobenzene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 1,4-Dichlorobenzene | | 5100 U | 3800 U | NA | 330 U | 63 % | 79 % |
| Benzyl alcohol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 1,2-Dichlorobenzene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 2-Methylphenol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| bis(2-Chloroisopropyl)ether | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 4-Methylphenol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| N-Nitroso-Di-n-propylamine | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| Hexachloroethane | | 5100 U | 3800 U | NA | 330 U | 87 % | 103 % |
| Nitrobenzene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| Isophorone | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 2-Nitrophenol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 2,4-Dimethylphenol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| Benzoic acid | | 25000 U | 19000 U | NA | 1700 U | 1700 U | 1700 U |
| bis(2-Chloroethoxy)methane | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 2,4-Dichlorophenol | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 1,2,4-Trichlorobenzene | | 5100 U | 3800 U | NA | 330 U | 82 % | 96 % |
| Naphthalene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 4-Chloroaniline | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| Hexachlorobutadiene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |
| 4-Chloro-3-methylphenol | | 5100 U | 3800 U | NA | 330 U | 82 % | 84 % |
| 2-Methylnaphthalene | | 5100 U | 1600 J | NA | 330 U | 330 U | 330 U |
| Hexachlorocyclopentadiene | | 5100 U | 3800 U | NA | 330 U | 330 U | 330 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO-TP19-00 07 | | LRSO-TP19-00 05-G | | LRSO-TP19-00 05-G | SBLK | | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 010 | | 011 | | 011 DL | 91GB0246-MB1 | | 91GB0246-MB1 | | 91GB0246-MB1 | |
| 2,4,6-Trichlorophenol | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 2,4,5-Trichlorophenol | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| 2-Chloronaphthalene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 2-Nitroaniline | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| Dimethylphthalate | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Acenaphthylene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 2,6-Dinitrotoluene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 3-Nitroaniline | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| Acenaphthene | 5100 | U | 6300 | | NA | 330 | U | 73 | % | 77 | % |
| 2,4-Dinitrophenol | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| 4-Nitrophenol | 25000 | U | 19000 | U | NA | 1700 | U | 70 | % | 76 | % |
| Dibenzofuran | 5100 | U | 4600 | | NA | 330 | U | 330 | U | 330 | U |
| 2,4-Dinitrotoluene | 5100 | U | 3800 | U | NA | 330 | U | 55 | % | 60 | % |
| Diethylphthalate | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 4-Chlorophenyl-phenylether | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Fluorene | 5100 | U | 9800 | | NA | 330 | U | 330 | U | 330 | U |
| 4-Nitroaniline | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 25000 | U | 19000 | U | NA | 1700 | U | 1700 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 4-Bromophenyl-phenylether | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Hexachlorobenzene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Pentachlorophenol | 25000 | U | 19000 | U | NA | 1700 | U | 83 | % | 84 | % |
| Phenanthrene | 1900 | J | | E | 95000 J | 330 | U | 330 | U | 330 | U |
| Anthracene | 5100 | U | 5000 | | NA | 330 | U | 330 | U | 330 | U |
| Di-n-Butylphthalate | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Fluoranthene | 2000 | J | 43000 | | NA | 330 | U | 330 | U | 330 | U |
| Pyrene | 2800 | J | | E | 87000 J | 330 | U | 125 | % | 127 | % |
| Butylbenzylphthalate | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| 3,3'-Dichlorobenzidine | 10000 | U | 7600 | U | NA | 670 | U | 670 | U | 670 | U |
| Benzo(a)anthracene | 1500 | J | 20000 | | NA | 330 | U | 330 | U | 330 | U |
| Chrysene | 940 | J | 23000 | | NA | 330 | U | 330 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | 1900 | J | 5900 | | NA | 330 | U | 330 | U | 330 | U |
| Di-n-Octyl phthalate | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Benzo(a)pyrene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 5100 | U | 13000 | | NA | 330 | U | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 5100 | U | 3800 | U | NA | 330 | U | 330 | U | 330 | U |
| Benzo(g,h,i)perylene | 5100 | U | 16000 | | NA | 330 | U | 330 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSOTP 04000 3 | | LRSOTP 16000 4-G | | LRSOTP 16000 5 | | LRSOTP 05011 4 | | LRSOTP 14010 2-G | | LRSOTP 10011 2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | | 002 | | 003 | | 004 | | 005 | | 006 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 5.00 | | 1.00 | | 1.00 | | 20.0 | | 10.0 | | 20.0 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate: Di-n-butylchlorendate | | 89 | % | 93 | % | 89 | % | D | % | 70 | % | D | % |
| Alpha-BHC | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Beta-BHC | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Delta-BHC | | 48 | U | 9.0 | U | 13 | U | 280 | U | 280 | J | 210 | U |
| gamma-BHC (Lindane) | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Heptachlor | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Aldrin | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Heptachlor epoxide | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Endosulfan I | | 48 | U | 9.0 | U | 13 | U | 280 | U | 1400 | U | 210 | U |
| Dieldrin | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| 4,4'-DDE | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| Endrin | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| Endosulfan II | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| 4,4'-DDD | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| Endosulfan sulfate | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| 4,4'-DDT | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| Methoxychlor | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Endrin ketone | | 96 | U | 18 | U | 25 | U | 560 | U | 2800 | U | 420 | U |
| alpha-Chlordane | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| gamma-Chlordane | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Toxaphene | | 960 | U | 180 | U | 250 | U | 5600 | U | 28000 | U | 4200 | U |
| Aroclor-1016 | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Aroclor-1221 | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Aroclor-1232 | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Aroclor-1242 | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Aroclor-1248 | | 480 | U | 90 | U | 130 | U | 2800 | U | 14000 | U | 2100 | U |
| Aroclor-1254 | | 1900 | | 180 | U | 98 | J | 14000 | | 28000 | U | 4500 | |
| Aroclor-1260 | | 960 | U | 180 | U | 250 | U | 5600 | U | 28000 | U | 4200 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSOTP 10011 2 | LRSOTP 10011 2 | LRSOTP 11010 4 | LRSOTP 14010 8 | LRSOTP 15020 6 | LRSOTP 07010 6 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 006 MS | 006 MSD | 007 | 008 | 009 | 010 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 20.0 | 20.0 | 200 | 10.0 | 1.00 | 50.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | D | % fl | D | % fl | 115 | % fl | 124 | % fl | D | % fl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 210 | U | 210 | U | 2300 | U | 120 | U | 10 | U | 460 | U |
| Beta-BHC | 210 | U | 210 | U | 2300 | U | 120 | U | 10 | U | 460 | U |
| Delta-BHC | 210 | U | 210 | U | 2300 | U | 120 | U | 10 | U | 460 | U |
| gamma-BHC (Lindane) | D | % | D | % | 2300 | U | 120 | U | 10 | U | 460 | U |
| Heptachlor | D | % | D | % | 2300 | U | 120 | U | 10 | U | 460 | U |
| Aldrin | D | % | D | % | 2300 | U | 120 | U | 10 | U | 460 | U |
| Heptachlor epoxide | 210 | U | 210 | U | 2300 | U | 120 | U | 10 | U | 460 | U |
| Endosulfan I | 210 | U | 210 | U | 2300 | U | 120 | U | 10 | U | 460 | U |
| Dieldrin | D | % | D | % | 4700 | U | 240 | U | 20 | U | 920 | U |
| 4,4'-DDE | 420 | U | 410 | U | 4700 | U | 240 | U | 20 | U | 920 | U |
| Endrin | D | % | D | % | 4700 | U | 240 | U | 20 | U | 920 | U |
| Endosulfan II | 420 | U | 410 | U | 4700 | U | 240 | U | 20 | U | 920 | U |
| 4,4'-DDD | 420 | U | 410 | U | 4700 | U | 240 | U | 20 | U | 920 | U |
| Endosulfan sulfate | 420 | U | 410 | U | 4700 | U | 240 | U | 20 | U | 920 | U |
| 4,4'-DDT | D | % | D | % | 470 | J | 240 | U | 20 | U | 920 | U |
| Methoxychlor | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Endrin ketone | 420 | U | 410 | U | 4700 | U | 240 | U | 20 | U | 920 | U |
| alpha-Chlordane | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| gamma-Chlordane | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Toxaphene | 4200 | U | 4100 | U | 47000 | U | 2400 | U | 200 | U | 9200 | U |
| Aroclor-1016 | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Aroclor-1221 | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Aroclor-1232 | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Aroclor-1242 | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Aroclor-1248 | 2100 | U | 2100 | U | 23000 | U | 1200 | U | 100 | U | 4600 | U |
| Aroclor-1254 | 3400 | J | 2800 | J | 47000 | U | 8600 | | 200 | U | 13000 | |
| Aroclor-1260 | 4200 | U | 4100 | U | 47000 | U | 2400 | U | 120 | J | 9200 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSOTP 060108 | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|
| | RFW#: | 011 | 91GP0370-MB1 | 91GP0370-MB1 | 91GP0370-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 20.0 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | 98 | % fl | 98 | % fl | 94 | % fl |
|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 210 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Beta-BHC | 210 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Delta-BHC | 210 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| gamma-BHC (Lindane) | 210 | U | 8.0 | U | 119 | % | 119 | % |
| Heptachlor | 210 | U | 8.0 | U | 119 | % | 119 | % |
| Aldrin | 210 | U | 8.0 | U | 100 | % | 100 | % |
| Heptachlor epoxide | 210 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Endosulfan I | 210 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Dieldrin | 410 | U | 16 | U | 107 | % | 107 | % |
| 4,4'-DDE | 410 | U | 16 | U | 16 | U | 16 | U |
| Endrin | 410 | U | 16 | U | 123 | % | 119 | % |
| Endosulfan II | 410 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDD | 410 | U | 16 | U | 16 | U | 16 | U |
| Endosulfan sulfate | 410 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDT | 410 | U | 16 | U | 133 | % | 133 | % |
| Methoxychlor | 2100 | U | 80 | U | 80 | U | 80 | U |
| Endrin ketone | 410 | U | 16 | U | 16 | U | 16 | U |
| alpha-Chlordane | 2100 | U | 80 | U | 80 | U | 80 | U |
| gamma-Chlordane | 2100 | U | 80 | U | 80 | U | 80 | U |
| Toxaphene | 4100 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1016 | 2100 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1221 | 2100 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1232 | 2100 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1242 | 2100 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1248 | 2100 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1254 | 4100 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1260 | 4100 | U | 160 | U | 160 | U | 160 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSO-TP01-00 03-G | LRSO-TP18-00 10-G | LRSO-TP18-00 10-G | LRSO-TP18-00 10-G | LRSO-TP18-00 10 | LRSO-TP19-00 07 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 007 | 008 | 008 MS | 008 MSD | 009 | 010 |
| | Matrix: | SOLID | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 10.0 | 10.0 | 10.0 | 5.00 | 5.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | D | % fl | D | % fl | D | % fl | 112 | % fl | 101 | % fl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 110 | U | 100 | U | 99 | U | 99 | U | 15 | J | 61 | |
| Beta-BHC | 110 | U | 100 | U | 99 | U | 99 | U | 49 | U | 61 | U |
| Delta-BHC | 110 | U | 100 | U | 99 | U | 99 | U | 23 | J | 61 | U |
| gamma-BHC (Lindane) | 110 | U | 100 | U | D | % | D | % | 49 | U | 61 | U |
| Heptachlor | 110 | U | 100 | U | D | % | D | % | 49 | U | 61 | U |
| Aldrin | 110 | U | 100 | U | D | % | D | % | 49 | U | 61 | U |
| Heptachlor epoxide | 110 | U | 100 | U | 99 | U | 99 | U | 49 | U | 61 | U |
| Endosulfan I | 110 | U | 100 | U | 99 | U | 99 | U | 49 | U | 61 | U |
| Dieldrin | 220 | U | 200 | U | D | % | D | % | 97 | U | 120 | U |
| 4,4'-DDE | 220 | U | 200 | U | 200 | U | 200 | U | 97 | U | 120 | U |
| Endrin | 220 | U | 200 | U | D | % | D | % | 97 | U | 120 | U |
| Endosulfan II | 220 | U | 200 | U | 200 | U | 200 | U | 97 | U | 120 | U |
| 4,4'-DDD | 220 | U | 200 | U | 200 | U | 200 | U | 97 | U | 120 | U |
| Endosulfan sulfate | 220 | U | 200 | U | 200 | U | 200 | U | 97 | U | 120 | U |
| 4,4'-DDT | 220 | U | 200 | U | D | % | D | % | 73 | J | 120 | U |
| Methoxychlor | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Endrin ketone | 220 | U | 200 | U | 200 | U | 200 | U | 97 | U | 120 | U |
| alpha-Chlordane | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| gamma-Chlordane | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Toxaphene | 2200 | U | 2000 | U | 2000 | U | 2000 | U | 970 | U | 1200 | U |
| Aroclor-1016 | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Aroclor-1221 | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Aroclor-1232 | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Aroclor-1242 | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Aroclor-1248 | 1100 | U | 1000 | U | 990 | U | 990 | U | 490 | U | 610 | U |
| Aroclor-1254 | 2200 | U | 2000 | U | 2000 | U | 2000 | U | 970 | U | 1200 | J |
| Aroclor-1260 | 2200 | U | 2000 | U | 2000 | U | 2000 | U | 970 | U | 1200 | U |

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%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9105G243 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/01/91 15:13 Page: 1

| Sample Information | Cust ID: | LRSO-TP17-0004 | LRSO-TP03-0109 | LRSO-TP02-0002-G | LRSO-TP02-0003 | LRSO-TP09-0005 | LRSO-TP01-0009 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 50.0 | 10.0 | 10.0 | 100 | 1.00 | 10.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % | D | % | D | % | D | % | 113 | % | D | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | fl | | fl | | fl | | fl | | fl | | fl |
| Alpha-BHC | 530 | U | 150 | U | 33 | J | 210 | J | 12 | U | 120 | U |
| Beta-BHC | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Delta-BHC | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| gamma-BHC (Lindane) | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Heptachlor | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Aldrin | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Heptachlor epoxide | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Endosulfan I | 530 | U | 150 | U | 130 | U | 1200 | U | 12 | U | 120 | U |
| Dieldrin | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| 4,4'-DDE | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| Endrin | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| Endosulfan II | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| 4,4'-DDD | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| Endosulfan sulfate | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| 4,4'-DDT | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| Methoxychlor | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Endrin ketone | 1100 | U | 300 | U | 270 | U | 2500 | U | 24 | U | 240 | U |
| alpha-Chlordane | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| gamma-Chlordane | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Toxaphene | 11000 | U | 3000 | U | 2700 | U | 25000 | U | 240 | U | 2400 | U |
| Aroclor-1016 | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Aroclor-1221 | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Aroclor-1232 | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Aroclor-1242 | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Aroclor-1248 | 5300 | U | 1500 | U | 1300 | U | 12000 | U | 120 | U | 1200 | U |
| Aroclor-1254 | 38000 | | 13000 | | 8700 | | 110000 | | 240 | U | 3100 | |
| Aroclor-1260 | 11000 | U | 3000 | U | 2700 | U | 25000 | U | 240 | U | 2400 | U |

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%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSO-TP19-00 05-G | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|
| | RFW#: | 011 | 91GP0386-MB1 | 91GP0386-MB1 | 91GP0386-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 50.0 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | 108 | % fl | 113 | % fl | 101 | % fl |
|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 320 | J | 8.0 | U | 8.0 | U | 8.0 | U |
| Beta-BHC | 460 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Delta-BHC | 830 | | 8.0 | U | 8.0 | U | 8.0 | U |
| gamma-BHC (Lindane) | 460 | U | 8.0 | U | 99 | % | 99 | % |
| Heptachlor | 460 | U | 8.0 | U | 99 | % | 89 | % |
| Aldrin | 460 | U | 8.0 | U | 90 | % | 80 | % |
| Heptachlor epoxide | 460 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Endosulfan I | 460 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Dieldrin | 930 | U | 16 | U | 99 | % | 95 | % |
| 4,4'-DDE | 930 | U | 16 | U | 16 | U | 16 | U |
| Endrin | 930 | U | 16 | U | 104 | % | 101 | % |
| Endosulfan II | 930 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDD | 930 | U | 16 | U | 16 | U | 16 | U |
| Endosulfan sulfate | 930 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDT | 930 | U | 16 | U | 102 | % | 98 | % |
| Methoxychlor | 4600 | U | 80 | U | 80 | U | 80 | U |
| Endrin ketone | 930 | U | 16 | U | 16 | U | 16 | U |
| alpha-Chlordane | 4600 | U | 80 | U | 80 | U | 80 | U |
| gamma-Chlordane | 4600 | U | 80 | U | 80 | U | 80 | U |
| Toxaphene | 9300 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1016 | 4600 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1221 | 4600 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1232 | 4600 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1242 | 4600 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1248 | 4600 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1254 | 9300 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1260 | 9300 | U | 160 | U | 160 | U | 160 | U |

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%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSOTP 08-06 07G | LRSOTP 08-03 09 | LRSOTP 08-03 09 | LRSOTP 08-03 09 | LRSOTP 12 0107 | LRSOTP 12 0800-G |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 002 MS | 002 MSD | 003 | 004 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 100 | 50.0 | 50.0 | 50.0 | 10.0 | 50.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | D | % fl | D | % fl | D | % fl | D | % fl | D | % fl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 1200 | U | 530 | U | 530 | U | 530 | U | 100 | U | 470 | U |
| Beta-BHC | 1200 | U | 530 | U | 530 | U | 530 | U | 100 | U | 470 | U |
| Delta-BHC | 1200 | U | 530 | U | 530 | U | 530 | U | 100 | U | 470 | U |
| gamma-BHC (Lindane) | 1200 | U | 530 | U | D | % | D | % | 100 | U | 470 | U |
| Heptachlor | 1200 | U | 530 | U | D | % | D | % | 100 | U | 470 | U |
| Aldrin | 1200 | U | 530 | U | D | % | D | % | 100 | U | 470 | U |
| Heptachlor epoxide | 1200 | U | 530 | U | 530 | U | 530 | U | 100 | U | 470 | U |
| Endosulfan I | 1200 | U | 530 | U | 530 | U | 530 | U | 100 | U | 470 | U |
| Dieldrin | 2400 | U | 1100 | U | D | % | D | % | 210 | U | 930 | U |
| 4,4'-DDE | 2400 | U | 1100 | U | 1100 | U | 1100 | U | 210 | U | 930 | U |
| Endrin | 2400 | U | 1100 | U | D | % | D | % | 210 | U | 930 | U |
| Endosulfan II | 2400 | U | 1100 | U | 1100 | U | 1100 | U | 210 | U | 930 | U |
| 4,4'-DDD | 2400 | U | 1100 | U | 1100 | U | 1100 | U | 210 | U | 930 | U |
| Endosulfan sulfate | 2400 | U | 1100 | U | 1100 | U | 1100 | U | 210 | U | 930 | U |
| 4,4'-DDT | 2400 | U | 1100 | U | D | % | D | % | 210 | U | 930 | U |
| Methoxychlor | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Endrin ketone | 2400 | U | 1100 | U | 1100 | U | 1100 | U | 210 | U | 930 | U |
| alpha-Chlordane | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| gamma-Chlordane | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Toxaphene | 24000 | U | 11000 | U | 11000 | U | 11000 | U | 2100 | U | 9300 | U |
| Aroclor-1016 | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Aroclor-1221 | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Aroclor-1232 | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Aroclor-1242 | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Aroclor-1248 | 12000 | U | 5300 | U | 5300 | U | 5300 | U | 1000 | U | 4700 | U |
| Aroclor-1254 | 24000 | U | 11000 | U | 11000 | U | 11000 | U | 3600 | | 9300 | U |
| Aroclor-1260 | 24000 | U | 11000 | U | 11000 | U | 11000 | U | 2100 | U | 9300 | U |

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%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSOTP 13 0207 | LRSOTP 13 0400-G | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|---|
| | RFW#: | 005 | 006 | 91GP0358-MB1 | 91GP0358-MB1 | 91GP0358-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 50.0 | 1000 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | D | % fl | 86 | % fl | 91 | % fl | 91 | % fl |
|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 580 | U | 10000 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Beta-BHC | 580 | U | 10000 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Delta-BHC | 580 | U | 10000 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| gamma-BHC (Lindane) | 580 | U | 10000 | U | 8.0 | U | 109 | % | 119 | % |
| Heptachlor | 580 | U | 10000 | U | 8.0 | U | 99 | % | 109 | % |
| Aldrin | 580 | U | 10000 | U | 8.0 | U | 80 | % | 80 | % |
| Heptachlor epoxide | 580 | U | 10000 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Endosulfan I | 580 | U | 10000 | U | 8.0 | U | 8.0 | U | 8.0 | U |
| Dieldrin | 1200 | U | 20000 | U | 16 | U | 99 | % | 103 | % |
| 4,4'-DDE | 1200 | U | 20000 | U | 16 | U | 16 | U | 16 | U |
| Endrin | 1200 | U | 20000 | U | 16 | U | 112 | % | 112 | % |
| Endosulfan II | 1200 | U | 20000 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDD | 1200 | U | 20000 | U | 16 | U | 16 | U | 16 | U |
| Endosulfan sulfate | 1200 | U | 20000 | U | 16 | U | 16 | U | 16 | U |
| 4,4'-DDT | 1200 | U | 20000 | U | 16 | U | 125 | % | 125 | % |
| Methoxychlor | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Endrin ketone | 1200 | U | 20000 | U | 16 | U | 16 | U | 16 | U |
| alpha-Chlordane | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| gamma-Chlordane | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Toxaphene | 12000 | U | 200000 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1016 | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1221 | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1232 | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1242 | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1248 | 5800 | U | 100000 | U | 80 | U | 80 | U | 80 | U |
| Aroclor-1254 | 42000 | | 200000 | U | 160 | U | 160 | U | 160 | U |
| Aroclor-1260 | 12000 | U | 200000 | U | 160 | U | 160 | U | 160 | U |

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%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105G073 |

Client GM
Work Order [redacted] 1138-58-02
Date Rec'd. _____ Date Due _____
RFW Contact BABU
Client Contact/Phone _____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | TCL VOA | TAL METALS CN | BNA PEB | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | | |
| #/Type Container | | | | 3G | 1G | 1G | | | | | |
| Volume | | | | 2oz | 8oz | 32oz | | | | | |
| Preservative | | | | | | | | | | | |
| ANALYSES REQUESTED → | | | | | | | | | | | |
| 001 | LRSOTP08-0607G | S | 5-6-91 | X | X | X | | | | | |
| 002 | LRSOTP08-0309 | S | 5-6-91 | X | X | X | | | | | |
| 003 | LRSOTP12 0107 | S | 5-7-91 | X | X | X | | | | | |
| 004 | LRSOTP12 0800-G | S | 5-7-91 | X | X | X | | | | | |
| 005 | LRSOTP130207 | S | 5-7-91 | X | X | X | | | | | |
| 006 | LRSOTP130400-G | S | 5-7-91 | X | X | X | | | | | |

Matrix: S - Soil, SE - Sediment, SO - Solid; W - Water, O - Oil, A - Air, WI - Wipe; DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate; X - Other

Special Instructions:
GC SEAL 0011700
5/8/91 1400

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | M Sullivan | | 5-8-91 | 0830 |
| | [illegible] | M Sullivan | 5/9/91 | 1000 |
| | | | | |
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| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered NOTES: Fed X
2 Ambient or Chilled NOTES:
3 Received Broken/Leaking (Improperly Sealed) Y N NOTES:
4 Properly Preserved Y N NOTES:
5 Received Within Holding Times Y N NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-12/88

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105G08 |

Client GM
Work Order 1138-58-02
Date Rec'd. ____ Date Due ____
RFW Contact BABU
Client Contact/Phone ____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | | | |
| #/Type Container | | | | 3/G | 1/G | 1/G | | | | | | |
| Volume | | | | 2oz | 8oz | 32oz | | | | | | |
| Preservative | | | | — | — | — | | | | | | |
| ANALYSES REQUESTED → | | | | TCL VOA | TAL METALS CN | BNA PCB | | | | | | |
| 006 | LRSOTP00112 | S | 5-7-91 | X | X | X | | | | | | |
| 007 | LRSOTP110104 | S | 5-7-91 | X | X | X | | | | | | |
| 008 | LRSOTP140108 | S | 5-8-91 | X | X | X | | | | | | |
| 009 | LRSOTP150206 | S | 5-8-91 | X | X | X | | | | | | |
| 010 | LRSOTP070106 | S | 5-8-91 | X | X | X | | | | | | |
| 011 | LRSOTP060108 | S | 5-8-91 | X | X | X | | | | | | |

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions: GC TAG 00117714

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | GR Sullen | KBusch | 5/10/91 | 1247 | | | | | |

RFW 21-21-001/A-12/88

**WESTON Analytics Use Only**

Samples Were:
1 Shipped or Hand-Delivered
NOTES: Fed X

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) N
NOTES: LRSOTP060108 12oz jar broken 5/7, all other jars marked 5/8

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105G103 |

Client GM
Work Order 1138.58-02
Date Rec'd. ____ Date Due ____
RFW Contact BABU
Client Contact/Phone ____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | | |
| #/Type Container | | | | 3/G | 1/G | 1/G | | 1/G | | | |
| Volume | | | | 2oz | 8oz | 32oz | | 32oz | | | |
| Preservative | | | | — | — | — | | — | | | |
| ANALYSES REQUESTED → | | | | TCL VOA | TAL METALS CN | BNA PCB | | VOA MCTHC & N PCB BNA | | | |
| 001 | LRSOTP040003 | S | 5-9-91 | X | X | X | | | | | |
| 002 | LRSOTP160004-G | S | 5-9-91 | X | X | X | | | | | |
| 003 | LRSOTP160005 | S | 5-9-91 | X | X | X | | | | | |
| 004 | LRSOTP050114 | S | 5-9-91 | X | X | X | | | | | |
| 005 | LRSOTP140102-G | * | 5-8-91 | | | | | X | | | |

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: * OILY SLUDGE/SEDIMENT
WESTON SEAL 0011704

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | MSULLIVAN | [signature] | 5/10/91 | 1240 |
| | | | | |
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| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
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| | | | | |

**WESTON Analytics Use Only**

Samples Were:
1 Shipped or Hand-Delivered
NOTES: FRM
2 Ambient or Chilled
NOTES:
3 Received Broken/Leaking (Improperly Sealed) Y (N)
NOTES:
4 Properly Preserved (Y) N
NOTES:
5 Received Within Holding Times (Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) N
NOTES: labeled LRSOTP[illegible]

RFW 21-21-001/A-12/88

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105G243 |

Client: GM
Work Order: 1138-58-02
Date Rec'd. ____ Date Due ____
RFW Contact: BABU
Client Contact/Phone ____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 3/G | 1/G | 1/G | | | | | | |
| | | | | Volume | 2oz | 8oz | 32oz | | | | | | |
| | | | | Preservative | — | — | — | | | | | | |
| | | | | ANALYSES REQUESTED → | TCL VOA | TAL METALS CN | BNA PCB | | | | | | |
| 001 | LRSO-TP17-0004 | S | 5-14-91 | | X | X | X | | | | | | |
| 002 | LRSOTP03 0109 | S | 5-14-91 | | X | X | X | | | | | | |
| 003 | LRSO-TP02-0002-G | S | 5-14-91 | | X | X | X | | | | | | |
| 004 | LRSO-TP02-0003- | S | 5-14-91 | | X | X | X | | | | | | |
| 005 | LRSO-TP09-0005 | S | 5-14-91 | | X | X | X | | | | | | |
| 006 | LRSO-TP01-0009 | S | 5-15-91 | | X | X | X | | | | | | |
| | | SO | | | | | | | | | | | |
| | | S | | | | | | | | | | | |

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: WESTON/GC SEAL 001171[illegible]

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | MSullivan | P. Spaulding | 5/16/91 | 1545 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES: Fed Ex

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES: —

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A 12/88

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 91056243 |

Client GM
Work Order 1135-58-02
Date Rec'd. _____ Date Due _____
RFW Contact BARU
Client Contact/Phone _____

| Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | 3/G | 1/G | 1/G | | 1/G | | | 1 | |
| Volume | 2oz | 32oz | 8oz | | 32oz | | | | |
| Preservative | — | — | — | | | | | | |
| ANALYSES REQUESTED → | TCL VOA | BNA PEST | METALS CN | | VOA BNA PEST METALS CN | | | | |

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 007 | LRSO-TP01-0003G | X | 5-15-91 | | | | X | | | | |
| 008 | LRSO-TP18-0010-G | S | 5-15-91 | X | X | X | | | | | |
| 009 | LRSO-TP18-0010- | S | 5-15-91 | X | X | X | | | | | |
| 010 | LRSO-TP19-0070 | S | 5-15-91 | X | X | X | | | | | |
| 011 | LRSO-TP19-0005-G | S | 5-15-91 | X | X | X | | | | | |
| | | | | | | | | | | | |
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Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions:
*Solid
GCL SEAL #0011728

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | MSullivan | P Spaulding | 5/16/91 | 1545 | | | | | |
| | | | | | | | | | |
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES: FED EX

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES: Use circled IDs per Melody.

IDs
Bottles: TP10-0002G, TP18-0010, TP19-0007
COC: TP01-0003G, TP18-0010G, TP19-0070

RFW 21-21-001/A-12/88

7-115

LABORATORY DATA SUMMARIES FOR
INORGANIC COMPOUND ANALYSES ARE
AVAILABLE FROM ROY F. WESTON, INC., AND
WILL BE SUBMITTED ON REQUEST

# APPENDIX G.3.2

# SOIL BORING SAMPLES

WESTON®
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____ | APPROVED BY

MATH CHECK BY _____ DEPT _____ DATE _____ |

METHOD REV. BY _____ DEPT _____ DATE _____ | DEPT _____ DATE _____

8-4-91
GMAC DATA REVIEW
BABUSUKUMAR
9105G526
WESTON - GULF COAST
SULLIVAN

WET CHEMISTRY

QC CRITERIA ACCEPTABLE

METALS

Iron was found in blank, but results were 10x blank value
-no flag

Duplicate results did not meet QC limits for K; results flagged J.

Matrix spike recovery did not meet QC limits for
Mn 68%
Pb 69.6%
Se 64%
} DATA FLAGGED J

VOA

HOLDING TIMES WERE EXCEEDED FOR ALL SAMPLES EXCEPT SB02-1416, DP
DATA FLAGGED J
SURROGATE OUTSIDE QC LIMITS FOR SB03-0304 - DATA FLAGGED J

LAB APPROPRIETLY FLAGGED SAMPLES ACCORDING TO ANALYTES FOUND IN BLANKS.

MS/MSD
RPD - 3 OF 5 OUTSIDE LIMITS
SPIKE RECOVERY 1 OF 10 OUTSIDE LIMITS

DATA REVIEW SUMMARY

DATE: 7-31-91

SUBJECT: DATA REVIEW

PROJECT NAME: GM - LINDEN ROAD

PROJECT MANAGER: BABUSUKUMAR

RFW #: 910665G4

LABORATORY: WESTON / GULF COAST

REVIEWER: M. SULLIVAN

SUMMARY OF FINDINGS:

CN - NO NARRATIVE
SPIKE ACCEPTABLE

METALS
LIMITED QA/QC AVAILABLE (NO RAW)
BLANKS - FIELD BLANK CONTAINED CALCIUM, SODIUM + ZINC
DUPLICATES DID NOT MEET QC REQUIREMENTS FOR As, Fe, Mg, Mn + Se
DATA FLAGGED AS ESTIMATED, J.
SPIKE RECOVERY < 75% FOR Ag, Ba - RESULTS FLAGGED J - ESTIMATED

VOA
HOLDING TIMES ACCEPTABLE
SURROGATE OUTSIDE QC LIMITS FOR SO-SB04-0003 - DATA FLAGGED ESTIMATED J
INITIAL CALIBRATION APPLICABLE TO SAMPLES VBLKGVE137-MB1, LR-GWMW03-D LR-GWMW02-S, LR-GW-MW03-S, LR-GW-TB03, LR-GW-MW03 - FE HAD % RSD > 30 FOR NONE OF THE ANALYTES
CONTINUING CALIBRATION %D > 25% FOR CHLOROMETHANE, ACETONE, 2 BUTANONE, AND TRICHLOROETHENE RESULTS ARE FLAGGED J - ESTIMATED

REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

INITIAL CALIBRATION APPLICABLE TO SAMPLES VBLKGVB210-MB1, LR-SO-SB04-00030L HAD % RSD > 30% FOR ACETONE - DETECTED RESULTS ARE FLAGGED J
CONTINUING CALIBRATION %D > 25% FOR CHLOROMETHANE, BROMOMETHANE ACETONE - DETECTED RESULTS ARE FLAGGED J.
INITIAL CALIBRATION APPLICABLE TO SAMPLES VBLKGVE138-MB1 & LRGWMW04-S - MISSING
CONTINUING CALIBRATION %D > 25% FOR ACETONE, BUTANONE, - DETECTED RESULTS ARE FLAGGED J.

[redacted]

| Sample Information | Cust ID: | LRSO SB01 1012 | LRSO SB01 2224 | LRSO SB01 2224 | LRSO MW02D 1921 | LRSO MW02D 1921 | LRSO MW02D 3335 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 003 | 003 | 005 | 005 | 007 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg REPREP | ug/Kg | ug/Kg REPREP | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 128 * % | 108 % | 114 % | 123 * % | 118 * % | 104 % |
| | Bromofluorobenzene | 98 % | 93 % | 91 % | 79 % | 81 % | 90 % |
| | 1,2-Dichloroethane-d4 | 102 % | 106 % | 101 % | 98 % | 99 % | 103 % |
| Chloromethane | | 11 U J | 11 U | 11 U J | 12 U J | 12 U J | 11 U |
| Bromomethane | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U |
| Vinyl Chloride | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U |
| Chloroethane | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U |
| Methylene Chloride | | 100 B | 26 B J | 28 B | 110 B | 24 B | 21 B J |
| Acetone | | 3400 B | 240 B J | 17 B | 580 B | 30 B | 220 B J |
| Carbon Disulfide | | 20 | 6 | 6 U | 6 U | 6 U | 5 U |
| 1,1-Dichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,1-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,2-Dichloroethene (total) | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Chloroform | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,2-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 2-Butanone | | 360 | 28 | 11 U | 9 J | 12 U | 11 U |
| 1,1,1-Trichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Carbon Tetrachloride | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Vinyl Acetate | | 11 U | 16 | 11 U | 68 | 12 U | 3 J |
| Bromodichloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,2-Dichloropropane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| cis-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Trichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Dibromochloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,1,2-Trichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Benzene | | 30 | 6 U | 6 U | 6 U | 6 U | 5 U |
| Trans-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Bromoform | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 4-Methyl-2-pentanone | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U |
| 2-Hexanone | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U |
| Tetrachloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO SB01 | LRSO SB01 | LRSO SB01 | LRSO MW02D | LRSO MW02D | LRSO MW02D |
|---|---|---|---|---|---|---|
| | 1012 | 2224 | 2224 | 1921 | 1921 | 3335 |
| RFW#: | 001 | 003 | 003 REPREP | 005 | 005 REPREP | 007 |
| Toluene | 55 J | 5 J | 9 J | 30 | 8 J | 5 |
| Chlorobenzene | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Ethylbenzene | 68 | 6 U | 2 J | 5 J | 6 U | 5 U |
| Styrene | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U |
| Xylene (total) | 320 | 10 | 9 | 29 | 8 | 5 U |

*= Outside of EPA CLP QC limits.

Roy F. ton, Inc. - Gulf Coast Laboratories
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G332 Client: GMAC Report Date: 07/08/91 19:04
Work Order: 1138-58-02-0000 Page: 2a

| Sample Information | Cust ID: | LRSO MW02D 3335 DP | LRSO MW01D 1820 | LRSO MW01D 4042 | LRSO MW01D 4042 | LRSO MW03D 1820 | LRSO MW03D 1820 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 009 | 011 | 013 | 013 | 015 | 015 MS |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg REPREP | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 107 % | 114 % | 132 * % | 118 * % | 125 * % | 119 * % |
| | Bromofluorobenzene | 88 % | 80 % | 75 % | 80 % | 78 % | 80 % |
| | 1,2-Dichloroethane-d4 | 102 % | 98 % | 90 % | 101 % | 90 % | 92 % |
| Chloromethane | | 11 U | 12 U | 12 U J | 12 U J | 12 U J | 12 U J |
| Bromomethane | | 11 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| Vinyl Chloride | | 11 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| Chloroethane | | 11 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| Methylene Chloride | | 15 B J | 57 B J | 110 B | 24 B | 40 B | 32 B |
| Acetone | | 480 B J | 290 B J | 510 B | 20 B | 140 B | 120 B |
| Carbon Disulfide | | 6 U | 6 U | 4 J | 6 U | 6 | 6 U |
| 1,1-Dichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 131 % |
| 1,1-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethene (total) | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 2-Butanone | | 11 U | 9 J | 11 J | 12 U | 15 | 11 J |
| 1,1,1-Trichloroethane | | 6 U | 10 J | 9 | 6 U | 6 U | 6 U |
| Carbon Tetrachloride | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Vinyl Acetate | | 11 U | 3 J | 12 | 12 U | 12 U | 12 U |
| Bromodichloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloropropane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Trichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 95 % |
| Dibromochloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Benzene | | 6 U | 6 U | 6 U | 6 U | 6 U | 127 % |
| Trans-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Bromoform | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Methyl-2-pentanone | | 11 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| 2-Hexanone | | 11 U | 12 U | 12 U | 12 U | 12 U | 12 U |
| Tetrachloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 1,1,2,2-Tetrachloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0 MW02D 3335 DP | LRS0 MW01D 1820 | LRS0 MW01D 4042 | LRS0 MW01D 4042 | LRS0 MW03D 1820 | LRS0 MW03D 1820 |
|---|---|---|---|---|---|---|
| RFW#: | 009 | 011 | 013 | 013 REPREP | 015 | 015 MS |
| Toluene | 6 U | 9 | 19 | 4 J | 7 | 107 % |
| Chlorobenzene | 6 U | 6 U | 6 U | 6 U | 6 U | 102 % |
| Ethylbenzene | 6 U | 1 J | 2 J | 6 U | 6 U | 6 U |
| Styrene | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (total) | 6 U | 7 | 11 | 6 U | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO MW03D 1820 | VBLK | VBLK |
|---|---|---|---|---|
| | RFW#: | 015 MSD | 91GVC176-MB1 | 91GVC206-MB1 |
| | Matrix: | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 128 * % | 99 % | 96 % |
| | Bromofluorobenzene | 74 % | 95 % | 95 % |
| | 1,2-Dichloroethane-d4 | 90 % | 103 % | 105 % |
| Chloromethane | | 12 U | 10 U | 10 U |
| Bromomethane | | 12 U | 10 U | 10 U |
| Vinyl Chloride | | 12 U | 10 U | 10 U |
| Chloroethane | | 12 U | 10 U | 10 U |
| Methylene Chloride | | 27 B | 17 J | 11 J |
| Acetone | | 120 B | 14 J | 12 J |
| Carbon Disulfide | | 2 J | 5 U | 5 U |
| 1,1-Dichloroethene | | 121 % | 5 U | 5 U |
| 1,1-Dichloroethane | | 6 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 6 U | 5 U | 5 U |
| Chloroform | | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 6 U | 5 U | 5 U |
| 2-Butanone | | 15 | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | | 6 U | 5 U | 5 U |
| Vinyl Acetate | | 12 U | 10 U | 10 U |
| Bromodichloromethane | | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 6 U | 5 U | 5 U |
| Trichloroethene | | 81 % | 5 U | 5 U |
| Dibromochloromethane | | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 6 U | 5 U | 5 U |
| Benzene | | 119 % | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 6 U | 5 U | 5 U |
| Bromoform | | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 12 U | 10 U | 10 U |
| 2-Hexanone | | 12 U | 10 U | 10 U |
| Tetrachloroethene | | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 6 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO MW03D 1820 | VBLK | VBLK |
|---|---|---|---|
| RFW#: | 015 MSD | 91GVC176-MB1 | 91GVC206-MB1 |
| Toluene | 101 % | 5 U | 5 U |
| Chlorobenzene | 91 % | 5 U | 5 U |
| Ethylbenzene | 6 U | 5 U | 5 U |
| Styrene | 6 U | 5 U | 5 U |
| Xylene (total) | 6 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G526 Client: GMAC Report Date: 07/17/91 04:15
Work Order: 1138-58-02-0000 Page: 1a

| Sample Information | Cust ID: | LRSO SB02 0506 | LRSO SB02 0809 | LRSO SB02 1416 | LRSO SB02 1416 DP | LRSO SB03 0304 | LRSO SB03 0304 DL |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 003 | 005 | 007 | 009 | 009 DL |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 107 % | 106 % | 104 % | 107 % | 131 * % | 107 % |
| | Bromofluorobenzene | 84 % | 87 % | 90 % | 89 % | 90 % | 91 % |
| | 1,2-Dichloroethane-d4 | 101 % | 100 % | 98 % | 99 % | 109 % | 110 % |
| Chloromethane | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Bromomethane | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Vinyl Chloride | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Chloroethane | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Methylene Chloride | | 29 B | 27 B | 68 B | 79 B | 61 B | NA |
| Acetone | | 13 U | 170 | 100 B | 230 B | 13 U | NA |
| Carbon Disulfide | | 6 U | 6 U | 6 U | 6 U | 20 | NA |
| 1,1-Dichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,1-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,2-Dichloroethene (total) | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Chloroform | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,2-Dichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 2-Butanone | | 13 U | 12 U | 3 J | 11 J | 13 U | NA |
| 1,1,1-Trichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Carbon Tetrachloride | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Vinyl Acetate | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Bromodichloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,2-Dichloropropane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| cis-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Trichloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Dibromochloromethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,1,2-Trichloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Benzene | | 6 U | 6 U | 6 U | 6 U | 4 J | NA |
| Trans-1,3-Dichloropropene | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Bromoform | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 4-Methyl-2-pentanone | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| 2-Hexanone | | 13 U | 12 U | 12 U | 12 U | 13 U | NA |
| Tetrachloroethene | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| 1,1,2,2-Tetrachloroethane | | 6 U | 6 U | 6 U | 6 U | 6 U | NA |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0 SB02 0506 | LRS0 SB02 0809 | LRS0 SB02 1416 | LRS0 SB02 1416 DP | LRS0 SB03 0304 | LRS0 SB03 0304 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 003 | 005 | 007 | 009 | 009 DL |
| Toluene | 6 U J | 6 U J | 3 J | 6 U J | 78 J | NA |
| Chlorobenzene | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Ethylbenzene | 6 U | 6 U | 6 U | 6 U | 250 | NA |
| Styrene | 6 U | 6 U | 6 U | 6 U | 6 U | NA |
| Xylene (total) | 6 U | 6 U | 6 U | 6 U | E | 1300 J |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO SB03 1112 | LRSO SB03 1112 | LRSO SB03 1112 | LRSO MW04 0910 | VBLK | VBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 011 | 011 MS | 011 MSD | 013 | 91GVB208-MB1 | 91GVC186-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 115 % | 115 % | 117 % | 106 % | 92 % | 100 % |
| | Bromofluorobenzene | 81 % | 79 % | 79 % | 84 % | 92 % | 93 % |
| | 1,2-Dichloroethane-d4 | 99 % | 104 % | 103 % | 94 % | 98 % | 101 % |
| Chloromethane | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Bromomethane | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Vinyl Chloride | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Chloroethane | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Methylene Chloride | | 48 B | 46 B | 43 B | 22 B | 14 | 8 |
| Acetone | | 330 | 350 | 660 | 470 | 10 U | 14 |
| Carbon Disulfide | | 6 J | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 7 U | 65 % | 82 % | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Chloroform | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 2-Butanone | | 13 U | 13 U | 60 | 12 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Vinyl Acetate | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Bromodichloromethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 8 | 8 | 7 U | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Trichloroethene | | 7 U | 73 % | 103 % | 6 U | 5 U | 5 U |
| Dibromochloromethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Benzene | | 7 U | 109 % | 106 % | 6 U | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Bromoform | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| 2-Hexanone | | 13 U | 13 U | 13 U | 12 U | 10 U | 10 U |
| Tetrachloroethene | | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 7 U | 7 U | 23 | 6 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO SB03 1112 | LRSO SB03 1112 | LRSO SB03 1112 | LRSO MW04 0910 | VBLK | VBLK |
|---|---|---|---|---|---|---|
| RFW#: | 011 | 011 MS | 011 MSD | 013 | 91GVB208-MB1 | 91GVC186-MB1 |
| Toluene | 6 J | 106 % | 346 * % | 6 U | 5 U | 5 U |
| Chlorobenzene | 7 U | 92 % | 99 % | 6 U | 5 U | 5 U |
| Ethylbenzene | 7 U | 7 U | 15 | 6 U | 5 U | 5 U |
| Styrene | 7 U | 7 U | 7 U | 6 U | 5 U | 5 U |
| Xylene (total) | 7 U | 7 U | 22 | 6 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| | Cust ID: | VBLK | | VBLK BS | |
|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GVC204-MB1 | | 91GVC204-MB1 | |
| | Matrix: | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Toluene-d8 | 98 | % | 98 | % |
| | Bromofluorobenzene | 98 | % | 95 | % |
| | 1,2-Dichloroethane-d4 | 107 | % | 102 | % |
| Chloromethane | | 10 | U | 10 | U |
| Bromomethane | | 10 | U | 10 | U |
| Vinyl Chloride | | 10 | U | 10 | U |
| Chloroethane | | 10 | U | 10 | U |
| Methylene Chloride | | 21 | | 12 | B |
| Acetone | | 23 | | 17 | B |
| Carbon Disulfide | | 5 | U | 5 | U |
| 1,1-Dichloroethene | | 5 | U | 79 | % |
| 1,1-Dichloroethane | | 5 | U | 5 | U |
| 1,2-Dichloroethene (total) | | 5 | U | 5 | U |
| Chloroform | | 5 | U | 5 | U |
| 1,2-Dichloroethane | | 5 | U | 5 | U |
| 2-Butanone | | 10 | U | 10 | U |
| 1,1,1-Trichloroethane | | 5 | U | 5 | U |
| Carbon Tetrachloride | | 5 | U | 5 | U |
| Vinyl Acetate | | 10 | U | 10 | U |
| Bromodichloromethane | | 5 | U | 5 | U |
| 1,2-Dichloropropane | | 5 | U | 5 | U |
| cis-1,3-Dichloropropene | | 5 | U | 5 | U |
| Trichloroethene | | 5 | U | 105 | % |
| Dibromochloromethane | | 5 | U | 5 | U |
| 1,1,2-Trichloroethane | | 5 | U | 5 | U |
| Benzene | | 5 | U | 94 | % |
| Trans-1,3-Dichloropropene | | 5 | U | 5 | U |
| Bromoform | | 5 | U | 5 | U |
| 4-Methyl-2-pentanone | | 10 | U | 10 | U |
| 2-Hexanone | | 10 | U | 10 | U |
| Tetrachloroethene | | 5 | U | 5 | U |
| 1,1,2,2-Tetrachloroethane | | 5 | U | 5 | U |

*= Outside of EPA CLP QC limits.

| | Cust ID: | VBLK | VBLK BS |
|---|---|---|---|
| | RFW#: | 91GVC204-MB1 | 91GVC204-MB1 |
| Toluene | | 5 U | 97 % |
| Chlorobenzene | | 5 U | 97 % |
| Ethylbenzene | | 5 U | 5 U |
| Styrene | | 5 U | 5 U |
| Xylene (total) | | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO-MW01S-0208 | LRSO-MW01S-0208 | LRSO-MW01S-0814 | LRSO-MW02S-0308 | LRSO-MW03S-0212 | LRSO-MW03S-0212 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 | 002 | 003 | 004 | 004 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg REPREP | ug/Kg | ug/Kg | ug/Kg | ug/Kg REPREP |
| Surrogate Recovery | Toluene-d8 | 183 * % | 131 * % | 110 % | 102 % | 122 * % | 103 % |
| | Bromofluorobenzene | 72 * % | 72 * % | 87 % | 92 % | 82 % | 93 % |
| | 1,2-Dichloroethane-d4 | 112 % | 111 % | 98 % | 99 % | 96 % | 104 % |
| Chloromethane | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Bromomethane | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Vinyl Chloride | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Chloroethane | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Methylene Chloride | | 100 B | 92 B | 29 B | 55 B | 84 B | 15 B |
| Acetone | | 120 | 21 B | 16 | 80 | 36 | 11 JB |
| Carbon Disulfide | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,1-Dichloroethene | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,1-Dichloroethane | | 9 U | 9 U | 6 U | 6 U | 4 J | 6 U |
| 1,2-Dichloroethene (total) | | 9 U | 9 U | 7 | 6 U | 17 | 6 U |
| Chloroform | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 2-Butanone | | 7 J | 17 U | 12 U | 12 U | 12 U | 12 U |
| 1,1,1-Trichloroethane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Tetrachloride | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Vinyl Acetate | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Bromodichloromethane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,2-Dichloropropane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,3-Dichloropropene | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Trichloroethene | | 23 | 8 J | 140 | 6 U | 6 U | 6 U |
| Dibromochloromethane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Benzene | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Trans-1,3-Dichloropropene | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Bromoform | | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| 4-Methyl-2-pentanone | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| 2-Hexanone | | 17 U | 17 U | 12 U | 12 U | 12 U | 12 U |
| Tetrachloroethene | | 29 | 9 U | 6 U | 6 U | 6 U | 6 U |
| 1,1,2,2-Tetrachloroethane | | 39 | 17 | 6 U | 6 U | 6 U | 6 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO-MW01S-0 208 | LRSO-MW01S-0 208 | LRSO-MW01S-0 814 | LRSO-MW02S-0 308 | LRSO-MW03S-0 212 | LRSO-MW03S-0 212 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 001 REP | 002 | 003 | 004 | 004 REP |
| Toluene | 47 | 4 J | 3 J | 12 | 34 | 4 J |
| Chlorobenzene | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Ethylbenzene | 6 J | 2 J | 6 U | 6 U | 6 U | 6 U |
| Styrene | 9 U | 9 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (total) | 50 | 12 | 6 U | 8 | 4 J | 6 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | VBLK | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 91GVC170-MB1 | 91GVC170-MB1 | 91GVC204-MB1 | 91GVC204-MB1 | 91GVC203-MB1 | 91GVC203-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 100 % | 104 % | 98 % | 98 % | 96 % | 85 % |
| | Bromofluorobenzene | 95 % | 92 % | 98 % | 95 % | 101 % | 101 % |
| | 1,2-Dichloroethane-d4 | 99 % | 98 % | 107 % | 102 % | 107 % | 107 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 12 | 12 B | 21 | 12 B | 6 | 6 B |
| Acetone | | 10 U | 10 U | 23 | 17 B | 34 | 15 B |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 111 % | 5 U | 79 % | 5 U | 90 % |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 91 % | 5 U | 105 % | 5 U | 102 % |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 97 % | 5 U | 94 % | 5 U | 100 % |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | VBLK | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|
| RFW#: | 91GVC170-MB1 | 91GVC170-MB1 | 91GVC204-MB1 | 91GVC204-MB1 | 91GVC203-MB1 | 91GVC203-MB1 |
| Toluene | 5 U | 96 % | 5 U | 97 % | 5 U | 98 % |
| Chlorobenzene | 5 U | 96 % | 5 U | 97 % | 5 U | 96 % |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G332 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/26/91 17:25 Page: 1a

| Sample Information | Cust ID: | LRS0 SB01 0010 | LRS0 SB01 0010 | LRS0 SB01 0010 | LRS0 SB01 2226 | LRS0 MW02D 1923 | LRS0 MW02D 3341 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 002 | 002 MS | 002 MSD | 004 | 006 | 008 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 20.0 | 20.0 | 20.0 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 105 % | 87 % | 87 % | 63 % | 64 % | 66 % |
| | 2-Fluorobiphenyl | 82 % | 90 % | 86 % | 56 % | 58 % | 62 % |
| | Terphenyl-d14 | 139 * % | 153 * % | 152 * % | 65 % | 66 % | 79 % |
| | Phenol-d5 | 79 % | 92 % | 82 % | 63 % | 64 % | 68 % |
| | 2-Fluorophenol | 82 % | 92 % | 84 % | 67 % | 66 % | 69 % |
| | 2,4,6-Br3-phenol | 60 % | 77 % | 70 % | 54 % | 48 % | 61 % |
| Phenol | | 8000 U | 92 * % | 85 % | 400 U | 390 U | 360 U |
| bis(2-Chloroethyl)ether | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 2-Chlorophenol | | 8000 U | 90 % | 83 % | 400 U | 390 U | 360 U |
| 1,3-Dichlorobenzene | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 1,4-Dichlorobenzene | | 8000 U | D % | 91 % | 400 U | 390 U | 360 U |
| Benzyl alcohol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 1,2-Dichlorobenzene | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 2-Methylphenol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| bis(2-Chloroisopropyl)ether | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 4-Methylphenol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| N-Nitroso-Di-n-propylamine | | 8000 U | 100 % | 100 % | 400 U | 390 U | 360 U |
| Hexachloroethane | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| Nitrobenzene | | 8000 U | 800 J | 8000 U | 400 U | 390 U | 360 U |
| Isophorone | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 2-Nitrophenol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 2,4-Dimethylphenol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| Benzoic acid | | 40000 U | 40000 U | 40000 U | 2000 U | 1900 U | 1800 U |
| bis(2-Chloroethoxy)methane | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 2,4-Dichlorophenol | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 1,2,4-Trichlorobenzene | | 8000 U | 121 * % | 116 * % | 400 U | 390 U | 360 U |
| Naphthalene | | 15000 | 19000 | 15000 | 50 J | 390 U | 360 U |
| 4-Chloroaniline | | 8000 U | 860 J | 8000 U | 400 U | 390 U | 360 U |
| Hexachlorobutadiene | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |
| 4-Chloro-3-methylphenol | | 8000 U | 96 % | 91 % | 400 U | 390 U | 360 U |
| 2-Methylnaphthalene | | 9200 | 12000 | 8700 | 48 J | 390 U | 360 U |
| Hexachlorocyclopentadiene | | 8000 U | 8000 U | 8000 U | 400 U | 390 U | 360 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO SB01 0010 | | LRSO SB01 0010 | | LRSO SB01 0010 | | LRSO SB01 2226 | | LRSO MW02D 1923 | | LRSO MW02D 3341 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 002 | | 002 MS | | 002 MSD | | 004 | | 006 | | 008 | |
| 2,4,6-Trichlorophenol | 8000 | UJ | 8000 | U | 8000 | U | 400 | U | 390 | UJ | 360 | UJ |
| 2,4,5-Trichlorophenol | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| 2-Chloronaphthalene | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| 2-Nitroaniline | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| Dimethylphthalate | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Acenaphthylene | 8000 | U | 2700 | J | 8000 | U | 400 | U | 390 | U | 360 | U |
| 2,6-Dinitrotoluene | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| 3-Nitroaniline | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| Acenaphthene | 3500 | J | 156 * | % | 89 | % | 400 | U | 390 | U | 360 | U |
| 2,4-Dinitrophenol | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| 4-Nitrophenol | 40000 | U | 59 | % | 72 | % | 2000 | U | 1900 | U | 1800 | U |
| Dibenzofuran | 2600 | J | 3800 | J | 2600 | J | 400 | U | 390 | U | 360 | U |
| 2,4-Dinitrotoluene | 8000 | U | 60 | % | 60 | % | 400 | U | 390 | U | 360 | U |
| Diethylphthalate | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| 4-Chlorophenyl-phenylether | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Fluorene | 5200 | J | 8800 | | 5000 | J | 400 | U | 390 | U | 360 | U |
| 4-Nitroaniline | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| 4,6-Dinitro-2-methylphenol | 40000 | U | 40000 | U | 40000 | U | 2000 | U | 1900 | U | 1800 | U |
| N-Nitrosodiphenylamine (1) | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| 4-Bromophenyl-phenylether | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Hexachlorobenzene | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Pentachlorophenol | 40000 | U | 22 | % | D | % | 2000 | U | 1900 | U | 1800 | U |
| Phenanthrene | 22000 | | 44000 | | 22000 | | 110 | J | 390 | U | 360 | U |
| Anthracene | 3100 | J | 7900 | J | 3100 | J | 400 | U | 390 | U | 360 | U |
| Di-n-Butylphthalate | 1100 | J | 1200 | J | 8000 | U | 400 | U | 390 | U | 360 | U |
| Fluoranthene | 13000 | | 25000 | | 12000 | | 63 | J | 390 | U | 360 | U |
| Pyrene | 19000 | | 1270 * | % | 211 * | % | 61 | J | 390 | U | 360 | U |
| Butylbenzylphthalate | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| 3,3'-Dichlorobenzidine | 16000 | U | 16000 | U | 16000 | U | 800 | U | 770 | U | 720 | U |
| Benzo(a)anthracene | 8100 | | 22000 | | 8400 | | 400 | U | 390 | U | 360 | U |
| Chrysene | 9200 | | 16000 | | 7600 | J | 43 | J | 390 | U | 360 | U |
| bis(2-Ethylhexyl)phthalate | 8000 | U | 8000 | U | 8000 | U | 620 | B | 56 | JB | 410 | B |
| Di-n-Octyl phthalate | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Benzo(b)fluoranthene | 7800 | J | 17000 | | 7300 | J | 400 | U | 390 | U | 360 | U |
| Benzo(k)fluoranthene | 4100 | J | 7600 | J | 3300 | J | 400 | U | 390 | U | 360 | U |
| Benzo(a)pyrene | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Indeno(1,2,3-cd)pyrene | 5300 | J | 9300 | | 4200 | J | 400 | U | 390 | U | 360 | U |
| Dibenzo(a,h)anthracene | 8000 | U | 8000 | U | 8000 | U | 400 | U | 390 | U | 360 | U |
| Benzo(g,h,i)perylene | 6200 | J | 11000 | | 4900 | J | 400 | U | 390 | U | 360 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO MW02D 3341 DP | | LRSO MW01D 1620 | | LRSO MW01D 4044 | | LRSO MW03D 1820 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 010 | | 012 | | 014 | | 015 | | 91GB0253-MB1 | | 91GB0253-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Nitrobenzene-d5 | 31 | % | 61 | % | 70 | % | 61 | % | 81 | % | 87 | % |
| | 2-Fluorobiphenyl | 39 | % | 57 | % | 63 | % | 57 | % | 73 | % | 74 | % |
| | Terphenyl-d14 | 67 | % | 72 | % | 77 | % | 74 | % | 86 | % | 90 | % |
| | Phenol-d5 | 35 | % | 64 | % | 71 | % | 65 | % | 77 | % | 79 | % |
| | 2-Fluorophenol | 32 | % | 64 | % | 73 | % | 63 | % | 79 | % | 85 | % |
| | 2,4,6-Br3-phenol | 56 | % | 58 | % | 61 | % | 56 | % | 62 | % | 75 | % |
| Phenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 76 | % |
| bis(2-Chloroethyl)ether | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2-Chlorophenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 78 | % |
| 1,3-Dichlorobenzene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 1,4-Dichlorobenzene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 82 | % |
| Benzyl alcohol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 1,2-Dichlorobenzene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2-Methylphenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| bis(2-Chloroisopropyl)ether | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Methylphenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| N-Nitroso-Di-n-propylamine | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 77 | % |
| Hexachloroethane | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Nitrobenzene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Isophorone | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2-Nitrophenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2,4-Dimethylphenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Benzoic acid | | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| bis(2-Chloroethoxy)methane | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2,4-Dichlorophenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 1,2,4-Trichlorobenzene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 98 | % |
| Naphthalene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Chloroaniline | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Hexachlorobutadiene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Chloro-3-methylphenol | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 77 | % |
| 2-Methylnaphthalene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Hexachlorocyclopentadiene | | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO MW02D 3341 DP | | LRSO MW01D 1620 | | LRSO MW01D 4044 | | LRSO MW03D 1820 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 010 | | 012 | | 014 | | 015 | | 91GB0253-MB1 | | 91GB0253-MB1 | |
| 2,4,6-Trichlorophenol | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2,4,5-Trichlorophenol | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 2-Chloronaphthalene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2-Nitroaniline | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| Dimethylphthalate | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Acenaphthylene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2,6-Dinitrotoluene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 3-Nitroaniline | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| Acenaphthene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 80 | % |
| 2,4-Dinitrophenol | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 4-Nitrophenol | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 62 | % |
| Dibenzofuran | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 2,4-Dinitrotoluene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 55 | % |
| Diethylphthalate | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Chlorophenyl-phenylether | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Fluorene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Nitroaniline | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 4-Bromophenyl-phenylether | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Hexachlorobenzene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Pentachlorophenol | 1900 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 72 | % |
| Phenanthrene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Anthracene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Di-n-Butylphthalate | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Fluoranthene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Pyrene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 93 | % |
| Butylbenzylphthalate | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| 3,3'-Dichlorobenzidine | 770 | U | 770 | U | 760 | U | 770 | U | 670 | U | 670 | U |
| Benzo(a)anthracene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Chrysene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | 450 | B | 46 | JB | 97 | JB | 470 | B | 44 | J | 51 | JB |
| Di-n-Octyl phthalate | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Benzo(a)pyrene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |
| Benzo(g,h,i)perylene | 390 | U | 380 | U | 380 | U | 390 | U | 330 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: SBLK BSD

Sample Information

RFW#: 91GB0253-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | 88 | % |
| | 2-Fluorobiphenyl | 77 | % |
| | Terphenyl-d14 | 88 | % |
| | Phenol-d5 | 81 | % |
| | 2-Fluorophenol | 86 | % |
| | 2,4,6-Br3-phenol | 74 | % |

| | | |
|---|---|---|
| Phenol | 77 | % |
| bis(2-Chloroethyl)ether | 330 | U |
| 2-Chlorophenol | 80 | % |
| 1,3-Dichlorobenzene | 330 | U |
| 1,4-Dichlorobenzene | 84 | % |
| Benzyl alcohol | 330 | U |
| 1,2-Dichlorobenzene | 330 | U |
| 2-Methylphenol | 330 | U |
| bis(2-Chloroisopropyl)ether | 330 | U |
| 4-Methylphenol | 330 | U |
| N-Nitroso-Di-n-propylamine | 78 | % |
| Hexachloroethane | 330 | U |
| Nitrobenzene | 330 | U |
| Isophorone | 330 | U |
| 2-Nitrophenol | 330 | U |
| 2,4-Dimethylphenol | 330 | U |
| Benzoic acid | 1700 | U |
| bis(2-Chloroethoxy)methane | 330 | U |
| 2,4-Dichlorophenol | 330 | U |
| 1,2,4-Trichlorobenzene | 101 | % |
| Naphthalene | 330 | U |
| 4-Chloroaniline | 330 | U |
| Hexachlorobutadiene | 330 | U |
| 4-Chloro-3-methylphenol | 77 | % |
| 2-Methylnaphthalene | 330 | U |
| Hexachlorocyclopentadiene | 330 | U |

*= Outside of EPA CLP QC limits.

RFW#: 91GB0253-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 330 | U |
| 2,4,5-Trichlorophenol | 1700 | U |
| 2-Chloronaphthalene | 330 | U |
| 2-Nitroaniline | 1700 | U |
| Dimethylphthalate | 330 | U |
| Acenaphthylene | 330 | U |
| 2,6-Dinitrotoluene | 330 | U |
| 3-Nitroaniline | 1700 | U |
| Acenaphthene | 82 | % |
| 2,4-Dinitrophenol | 1700 | U |
| 4-Nitrophenol | 60 | % |
| Dibenzofuran | 330 | U |
| 2,4-Dinitrotoluene | 57 | % |
| Diethylphthalate | 330 | U |
| 4-Chlorophenyl-phenylether | 330 | U |
| Fluorene | 330 | U |
| 4-Nitroaniline | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 1700 | U |
| N-Nitrosodiphenylamine (1) | 330 | U |
| 4-Bromophenyl-phenylether | 330 | U |
| Hexachlorobenzene | 330 | U |
| Pentachlorophenol | 68 | % |
| Phenanthrene | 330 | U |
| Anthracene | 330 | U |
| Di-n-Butylphthalate | 330 | U |
| Fluoranthene | 330 | U |
| Pyrene | 90 | % |
| Butylbenzylphthalate | 330 | U |
| 3,3'-Dichlorobenzidine | 670 | U |
| Benzo(a)anthracene | 330 | U |
| Chrysene | 330 | U |
| bis(2-Ethylhexyl)phthalate | 34 | JB |
| Di-n-Octyl phthalate | 330 | U |
| Benzo(b)fluoranthene | 330 | U |
| Benzo(k)fluoranthene | 330 | U |
| Benzo(a)pyrene | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | U |
| Dibenzo(a,h)anthracene | 330 | U |
| Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO SB02 0106 | LRSO SB02 0106 | LRSO SB02 0813 | LRSO SB02 1420 | LRSO SB02 1420 DP | LRSO SB03 0106 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 002 | 002 DL | 004 | 006 | 008 | 010 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 5.00 | 20.0 | 1.00 | 1.00 | 1.00 | 10.0 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 86 % | D % | 74 % | 72 % | 68 % | 102 % |
| | 2-Fluorobiphenyl | 90 % | D % | 71 % | 65 % | 63 % | 91 % |
| | Terphenyl-d14 | 188 * % | D % | 135 % | 92 % | 87 % | 150 * % |
| | Phenol-d5 | 90 % | D % | 76 % | 71 % | 68 % | 85 % |
| | 2-Fluorophenol | 88 % | D % | 75 % | 76 % | 71 % | 90 % |
| | 2,4,6-Br3-phenol | 80 % | D % | 74 % | 63 % | 65 % | 87 % |
| Phenol | | 2000 U | NA | 400 U | 380 U | 380 U | 780 J |
| bis(2-Chloroethyl)ether | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2-Chlorophenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 1,3-Dichlorobenzene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 1,4-Dichlorobenzene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Benzyl alcohol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 1,2-Dichlorobenzene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2-Methylphenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| bis(2-Chloroisopropyl)ether | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 4-Methylphenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| N-Nitroso-Di-n-propylamine | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Hexachloroethane | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Nitrobenzene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Isophorone | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2-Nitrophenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2,4-Dimethylphenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Benzoic acid | | 760 J | NA | 2000 U | 1900 U | 1900 U | 29000 U |
| bis(2-Chloroethoxy)methane | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2,4-Dichlorophenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 1,2,4-Trichlorobenzene | | 2000 U | NA | 400 U | 380 U | 380 U | 740 J |
| Naphthalene | | 500 J | NA | 400 U | 380 U | 380 U | 3800 J |
| 4-Chloroaniline | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| Hexachlorobutadiene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 4-Chloro-3-methylphenol | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |
| 2-Methylnaphthalene | | 420 J | NA | 400 U | 380 U | 380 U | 3500 J |
| Hexachlorocyclopentadiene | | 2000 U | NA | 400 U | 380 U | 380 U | 5800 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0 SB02 0106 | | LRS0 SB02 0106 | | LRS0 SB02 0813 | | LRS0 SB02 1420 | | LRS0 SB02 1420 DP | | LRS0 SB03 0106 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 002 | | 002 DL | | 004 | | 006 | | 008 | | 010 | |
| 2,4,6-Trichlorophenol | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 2,4,5-Trichlorophenol | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| 2-Chloronaphthalene | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 2-Nitroaniline | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| Dimethylphthalate | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| Acenaphthylene | 1700 | J | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 2,6-Dinitrotoluene | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 3-Nitroaniline | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| Acenaphthene | 2100 | | NA | | 200 | J | 380 | U | 380 | U | 5100 | J |
| 2,4-Dinitrophenol | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| 4-Nitrophenol | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| Dibenzofuran | 1300 | J | NA | | 200 | J | 380 | U | 380 | U | 3700 | J |
| 2,4-Dinitrotoluene | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| Diethylphthalate | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 4-Chlorophenyl-phenylether | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| Fluorene | 2800 | | NA | | 230 | J | 380 | U | 380 | U | 7500 | |
| 4-Nitroaniline | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| 4,6-Dinitro-2-methylphenol | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| N-Nitrosodiphenylamine (1) | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 4-Bromophenyl-phenylether | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| Hexachlorobenzene | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| Pentachlorophenol | 10000 | U | NA | | 2000 | U | 1900 | U | 1900 | U | 29000 | U |
| Phenanthrene | 22000 | | NA | | 1200 | | 50 | J | 41 | J | 37000 | |
| Anthracene | 8600 | | NA | | 390 | J | 380 | U | 380 | U | 6900 | |
| Di-n-Butylphthalate | 2000 | U | NA | | 42 | J | 380 | U | 380 | U | 2300 | J |
| Fluoranthene | 31000 | | NA | | 1900 | | 380 | U | 380 | U | 29000 | |
| Pyrene | | E | 49000 | | 3200 | | 39 | J | 41 | J | 43000 | |
| Butylbenzylphthalate | 2000 | U | NA | | 400 | U | 380 | U | 380 | U | 5800 | U |
| 3,3'-Dichlorobenzidine | 4000 | U | NA | | 800 | U | 760 | U | 770 | U | 12000 | U |
| Benzo(a)anthracene | 29000 | | NA | | 1200 | | 380 | U | 380 | U | 15000 | |
| Chrysene | 27000 | | NA | | 1200 | | 380 | U | 380 | U | 16000 | |
| bis(2-Ethylhexyl)phthalate | 870 | JB | NA | | 190 | JB | 150 | JB | 170 | JB | 5800 | U |
| Di-n-Octyl phthalate | 2000 | U | NA | | 140 | J | 380 | U | 380 | U | 5800 | U |
| Benzo(b)fluoranthene | 27000 | | NA | | 1500 | | 51 | J | 380 | U | 10000 | |
| Benzo(k)fluoranthene | 24000 | | NA | | 840 | | 65 | J | 380 | U | 29000 | |
| Benzo(a)pyrene | 25000 | | NA | | 1200 | | 82 | J | 46 | J | 11000 | |
| Indeno(1,2,3-cd)pyrene | 21000 | | NA | | 690 | | 380 | U | 380 | U | 7800 | |
| Dibenzo(a,h)anthracene | 7900 | | NA | | 240 | J | 380 | U | 380 | U | 5800 | U |
| Benzo(g,h,i)perylene | 26000 | | NA | | 770 | | 380 | U | 380 | U | 9700 | |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRSO SB03 1117 | | LRSO SB03 1117 | | LRSO SB03 1117 | | LRSO MW04 0814 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 012 | | 012 MS | | 012 MSD | | 014 | | 91GB0261-MB1 | | 91GB0261-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Nitrobenzene-d5 | 61 | % | 71 | % | 61 | % | 72 | % | 67 | % | 75 | % |
| | 2-Fluorobiphenyl | 57 | % | 65 | % | 58 | % | 67 | % | 66 | % | 71 | % |
| | Terphenyl-d14 | 88 | % | 104 | % | 94 | % | 97 | % | 88 | % | 91 | % |
| | Phenol-d5 | 62 | % | 70 | % | 62 | % | 70 | % | 73 | % | 78 | % |
| | 2-Fluorophenol | 65 | % | 74 | % | 64 | % | 74 | % | 68 | % | 76 | % |
| | 2,4,6-Br3-phenol | 58 | % | 77 | % | 75 | % | 69 | % | 62 | % | 63 | % |
| Phenol | | 450 | U | 71 | % | 61 | % | 410 | U | 330 | U | 73 | % |
| bis(2-Chloroethyl)ether | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 2-Chlorophenol | | 450 | U | 72 | % | 61 | % | 410 | U | 330 | U | 70 | % |
| 1,3-Dichlorobenzene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 1,4-Dichlorobenzene | | 450 | U | 53 | % | 46 | % | 410 | U | 330 | U | 69 | % |
| Benzyl alcohol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 1,2-Dichlorobenzene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 2-Methylphenol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| bis(2-Chloroisopropyl)ether | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 4-Methylphenol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| N-Nitroso-Di-n-propylamine | | 450 | U | 72 | % | 58 | % | 410 | U | 330 | U | 81 | % |
| Hexachloroethane | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| Nitrobenzene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| Isophorone | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 2-Nitrophenol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 2,4-Dimethylphenol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| Benzoic acid | | 2200 | U | 2200 | U | 2200 | U | 2000 | U | 1700 | U | 1700 | U |
| bis(2-Chloroethoxy)methane | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 2,4-Dichlorophenol | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 1,2,4-Trichlorobenzene | | 450 | U | 74 | % | 66 | % | 410 | U | 330 | U | 81 | % |
| Naphthalene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 4-Chloroaniline | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| Hexachlorobutadiene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| 4-Chloro-3-methylphenol | | 450 | U | 78 | % | 71 | % | 410 | U | 330 | U | 72 | % |
| 2-Methylnaphthalene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |
| Hexachlorocyclopentadiene | | 450 | U | 440 | U | 440 | U | 410 | U | 330 | U | 330 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRS0 SB03 1117 | LRS0 SB03 1117 | LRS0 SB03 1117 | LRS0 MW04 0814 | SBLK | SBLK BS |
|---|---|---|---|---|---|---|
| RFW#: | 012 | 012 MS | 012 MSD | 014 | 91GB0261-MB1 | 91GB0261-MB1 |
| 2,4,6-Trichlorophenol | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 2,4,5-Trichlorophenol | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| 2-Chloronaphthalene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 2-Nitroaniline | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| Dimethylphthalate | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Acenaphthylene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 2,6-Dinitrotoluene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 3-Nitroaniline | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| Acenaphthene | 450 U | 70 % | 65 % | 410 U | 330 U | 75 % |
| 2,4-Dinitrophenol | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| 4-Nitrophenol | 2200 U | 65 % | 68 % | 2000 U | 1700 U | 65 % |
| Dibenzofuran | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 2,4-Dinitrotoluene | 450 U | 52 % | 51 % | 410 U | 330 U | 58 % |
| Diethylphthalate | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 4-Chlorophenyl-phenylether | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Fluorene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 4-Nitroaniline | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| 4,6-Dinitro-2-methylphenol | 2200 U | 2200 U | 2200 U | 2000 U | 1700 U | 1700 U |
| N-Nitrosodiphenylamine (1) | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 4-Bromophenyl-phenylether | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Hexachlorobenzene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Pentachlorophenol | 2200 U | 6 * % | 5 * % | 2000 U | 1700 U | 63 % |
| Phenanthrene | 45 J | 45 J | 440 U | 410 U | 330 U | 330 U |
| Anthracene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Di-n-Butylphthalate | 72 J | 260 J | 440 U | 140 J | 330 U | 330 U |
| Fluoranthene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Pyrene | 450 U | 105 % | 94 % | 410 U | 330 U | 96 % |
| Butylbenzylphthalate | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| 3,3'-Dichlorobenzidine | 890 U | 880 U | 870 U | 810 U | 670 U | 670 U |
| Benzo(a)anthracene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Chrysene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| bis(2-Ethylhexyl)phthalate | 49 JB | 60 JB | 290 JB | 61 JB | 61 J | 67 JB |
| Di-n-Octyl phthalate | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Benzo(b)fluoranthene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Benzo(k)fluoranthene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Benzo(a)pyrene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Indeno(1,2,3-cd)pyrene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Dibenzo(a,h)anthracene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |
| Benzo(g,h,i)perylene | 450 U | 440 U | 440 U | 410 U | 330 U | 330 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: **SBLK BSD**

Sample Information

RFW#: **91GB0261-MB1**
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | 73 | % |
| | 2-Fluorobiphenyl | 69 | % |
| | Terphenyl-d14 | 90 | % |
| | Phenol-d5 | 75 | % |
| | 2-Fluorophenol | 74 | % |
| | 2,4,6-Br3-phenol | 64 | % |

| | | |
|---|---|---|
| Phenol | 71 | % |
| bis(2-Chloroethyl)ether | 330 | U |
| 2-Chlorophenol | 69 | % |
| 1,3-Dichlorobenzene | 330 | U |
| 1,4-Dichlorobenzene | 69 | % |
| Benzyl alcohol | 330 | U |
| 1,2-Dichlorobenzene | 330 | U |
| 2-Methylphenol | 330 | U |
| bis(2-Chloroisopropyl)ether | 330 | U |
| 4-Methylphenol | 330 | U |
| N-Nitroso-Di-n-propylamine | 78 | % |
| Hexachloroethane | 330 | U |
| Nitrobenzene | 330 | U |
| Isophorone | 330 | U |
| 2-Nitrophenol | 330 | U |
| 2,4-Dimethylphenol | 330 | U |
| Benzoic acid | 1700 | U |
| bis(2-Chloroethoxy)methane | 330 | U |
| 2,4-Dichlorophenol | 330 | U |
| 1,2,4-Trichlorobenzene | 80 | % |
| Naphthalene | 330 | U |
| 4-Chloroaniline | 330 | U |
| Hexachlorobutadiene | 330 | U |
| 4-Chloro-3-methylphenol | 71 | % |
| 2-Methylnaphthalene | 330 | U |
| Hexachlorocyclopentadiene | 330 | U |

*= Outside of EPA CLP QC limits.

RFW#: 91GB0261-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 330 | U |
| 2,4,5-Trichlorophenol | 1700 | U |
| 2-Chloronaphthalene | 330 | U |
| 2-Nitroaniline | 1700 | U |
| Dimethylphthalate | 330 | U |
| Acenaphthylene | 330 | U |
| 2,6-Dinitrotoluene | 330 | U |
| 3-Nitroaniline | 1700 | U |
| Acenaphthene | 74 | % |
| 2,4-Dinitrophenol | 1700 | U |
| 4-Nitrophenol | 64 | % |
| Dibenzofuran | 330 | U |
| 2,4-Dinitrotoluene | 58 | % |
| Diethylphthalate | 330 | U |
| 4-Chlorophenyl-phenylether | 330 | U |
| Fluorene | 330 | U |
| 4-Nitroaniline | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 1700 | U |
| N-Nitrosodiphenylamine (1) | 330 | U |
| 4-Bromophenyl-phenylether | 330 | U |
| Hexachlorobenzene | 330 | U |
| Pentachlorophenol | 60 | % |
| Phenanthrene | 330 | U |
| Anthracene | 330 | U |
| Di-n-Butylphthalate | 330 | U |
| Fluoranthene | 330 | U |
| Pyrene | 93 | % |
| Butylbenzylphthalate | 330 | U |
| 3,3'-Dichlorobenzidine | 670 | U |
| Benzo(a)anthracene | 330 | U |
| Chrysene | 330 | U |
| bis(2-Ethylhexyl)phthalate | 76 | JB |
| Di-n-Octyl phthalate | 330 | U |
| Benzo(b)fluoranthene | 330 | U |
| Benzo(k)fluoranthene | 330 | U |
| Benzo(a)pyrene | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | U |
| Dibenzo(a,h)anthracene | 330 | U |
| Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. ton, Inc. - Gulf Coast Laboratories

RFW Batch Number: 9105G258 | Client: GMAC | SEMIVOLATILES BY GC/MS, HSL LIST | Work Order: 1138-58-02-0000 | Report Date: 06/24/91 16:06 | Page: 1a

| Sample Information | Cust ID: | LRSO-MW01S-0208 | | LRSO-MW01S-0814 | | LRSO-MW02S-0308 | | LRSO-MW03S-0212 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | | 002 | | 003 | | 004 | | 91GB0246-MB1 | | 91GB0246-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 10.0 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Nitrobenzene-d5 | 68 | % | 46 | % | 68 | % | 64 | % | 40 | % | 74 | % |
| | 2-Fluorobiphenyl | 64 | % | 42 | % | 62 | % | 57 | % | 41 | % | 65 | % |
| | Terphenyl-d14 | 120 | % | 74 | % | 79 | % | 74 | % | 84 | % | 124 | % |
| | Phenol-d5 | 61 | % | 45 | % | 69 | % | 65 | % | 44 | % | 74 | % |
| | 2-Fluorophenol | 64 | % | 48 | % | 70 | % | 67 | % | 43 | % | 71 | % |
| | 2,4,6-Br3-phenol | 44 | % | 50 | % | 56 | % | 60 | % | 61 | % | 80 | % |
| Phenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 71 | % |
| bis(2-Chloroethyl)ether | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2-Chlorophenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 68 | % |
| 1,3-Dichlorobenzene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 1,4-Dichlorobenzene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 63 | % |
| Benzyl alcohol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 1,2-Dichlorobenzene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2-Methylphenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| bis(2-Chloroisopropyl)ether | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Methylphenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| N-Nitroso-Di-n-propylamine | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 87 | % |
| Hexachloroethane | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Nitrobenzene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Isophorone | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2-Nitrophenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2,4-Dimethylphenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Benzoic acid | | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| bis(2-Chloroethoxy)methane | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2,4-Dichlorophenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 1,2,4-Trichlorobenzene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 82 | % |
| Naphthalene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Chloroaniline | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Hexachlorobutadiene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Chloro-3-methylphenol | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 82 | % |
| 2-Methylnaphthalene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Hexachlorocyclopentadiene | | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSO-MW01S-0 208 | | LRSO-MW01S-0 814 | | LRSO-MW02S-0 308 | | LRSO-MW03S-0 212 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 002 | | 003 | | 004 | | 91GB0246-MB1 | | 91GB0246-MB1 | |
| 2,4,6-Trichlorophenol | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2,4,5-Trichlorophenol | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 2-Chloronaphthalene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2-Nitroaniline | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| Dimethylphthalate | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Acenaphthylene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2,6-Dinitrotoluene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 3-Nitroaniline | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| Acenaphthene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 73 | % |
| 2,4-Dinitrophenol | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 4-Nitrophenol | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 70 | % |
| Dibenzofuran | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 2,4-Dinitrotoluene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 55 | % |
| Diethylphthalate | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Chlorophenyl-phenylether | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Fluorene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Nitroaniline | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 1700 | U |
| N-Nitrosodiphenylamine (1) | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 4-Bromophenyl-phenylether | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Hexachlorobenzene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Pentachlorophenol | 29000 | U | 1900 | U | 1900 | U | 1900 | U | 1700 | U | 83 | % |
| Phenanthrene | 3700 | J | 78 | J | 390 | U | 380 | U | 330 | U | 330 | U |
| Anthracene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Di-n-Butylphthalate | 680 | J | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Fluoranthene | 4500 | J | 57 | J | 390 | U | 380 | U | 330 | U | 330 | U |
| Pyrene | 6100 | | 64 | J | 390 | U | 380 | U | 330 | U | 125 | % |
| Butylbenzylphthalate | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| 3,3'-Dichlorobenzidine | 12000 | U | 750 | U | 780 | U | 750 | U | 670 | U | 670 | U |
| Benzo(a)anthracene | 3400 | J | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Chrysene | 2000 | J | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| bis(2-Ethylhexyl)phthalate | 6000 | | 310 | J | 100 | J | 93 | J | 330 | U | 330 | U |
| Di-n-Octyl phthalate | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Benzo(a)pyrene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |
| Benzo(g,h,i)perylene | 5800 | U | 380 | U | 390 | U | 380 | U | 330 | U | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: SBLK BSD

Sample Information

RFW#: 91GB0246-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | 85 | % |
| | 2-Fluorobiphenyl | 69 | % |
| | Terphenyl-d14 | 122 | % |
| | Phenol-d5 | 80 | % |
| | 2-Fluorophenol | 76 | % |
| | 2,4,6-Br3-phenol | 67 | % |

| | | | |
|---|---|---|---|
| Phenol | | 74 | % |
| bis(2-Chloroethyl)ether | | 330 | U |
| 2-Chlorophenol | | 73 | % |
| 1,3-Dichlorobenzene | | 330 | U |
| 1,4-Dichlorobenzene | | 79 | % |
| Benzyl alcohol | | 330 | U |
| 1,2-Dichlorobenzene | | 330 | U |
| 2-Methylphenol | | 330 | U |
| bis(2-Chloroisopropyl)ether | | 330 | U |
| 4-Methylphenol | | 330 | U |
| N-Nitroso-Di-n-propylamine | | 103 | % |
| Hexachloroethane | | 330 | U |
| Nitrobenzene | | 330 | U |
| Isophorone | | 330 | U |
| 2-Nitrophenol | | 330 | U |
| 2,4-Dimethylphenol | | 330 | U |
| Benzoic acid | | 1700 | U |
| bis(2-Chloroethoxy)methane | | 330 | U |
| 2,4-Dichlorophenol | | 330 | U |
| 1,2,4-Trichlorobenzene | | 96 | % |
| Naphthalene | | 330 | U |
| 4-Chloroaniline | | 330 | U |
| Hexachlorobutadiene | | 330 | U |
| 4-Chloro-3-methylphenol | | 84 | % |
| 2-Methylnaphthalene | | 330 | U |
| Hexachlorocyclopentadiene | | 330 | U |

*= Outside of EPA CLP QC limits.

RFW#: 91GB0246-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 330 | U |
| 2,4,5-Trichlorophenol | 1700 | U |
| 2-Chloronaphthalene | 330 | U |
| 2-Nitroaniline | 1700 | U |
| Dimethylphthalate | 330 | U |
| Acenaphthylene | 330 | U |
| 2,6-Dinitrotoluene | 330 | U |
| 3-Nitroaniline | 1700 | U |
| Acenaphthene | 77 | % |
| 2,4-Dinitrophenol | 1700 | U |
| 4-Nitrophenol | 76 | % |
| Dibenzofuran | 330 | U |
| 2,4-Dinitrotoluene | 60 | % |
| Diethylphthalate | 330 | U |
| 4-Chlorophenyl-phenylether | 330 | U |
| Fluorene | 330 | U |
| 4-Nitroaniline | 1700 | U |
| 4,6-Dinitro-2-methylphenol | 1700 | U |
| N-Nitrosodiphenylamine (1) | 330 | U |
| 4-Bromophenyl-phenylether | 330 | U |
| Hexachlorobenzene | 330 | U |
| Pentachlorophenol | 84 | % |
| Phenanthrene | 330 | U |
| Anthracene | 330 | U |
| Di-n-Butylphthalate | 330 | U |
| Fluoranthene | 330 | U |
| Pyrene | 127 | % |
| Butylbenzylphthalate | 330 | U |
| 3,3'-Dichlorobenzidine | 670 | U |
| Benzo(a)anthracene | 330 | U |
| Chrysene | 330 | U |
| bis(2-Ethylhexyl)phthalate | 330 | U |
| Di-n-Octyl phthalate | 330 | U |
| Benzo(b)fluoranthene | 330 | U |
| Benzo(k)fluoranthene | 330 | U |
| Benzo(a)pyrene | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | U |
| Dibenzo(a,h)anthracene | 330 | U |
| Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9105G332 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/03/91 14:27 Page: 1

| Sample Information | Cust ID: | LRSO SB01 0010 | LRSO SB01 0010 | LRSO SB01 0010 | LRSO SB01 2226 | LRSO MW02D 1923 | LRSO MW02D 3341 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 002 | 002 MS | 002 MSD | 004 | 006 | 008 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 10.0 | 10.0 | 10.0 | 5.00 | 5.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % | fl | D | % | fl | D | % | fl | 88 | % | fl | 77 | % | fl | 98 | % | fl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 96 | U | | 95 | U | | 95 | U | | 48 | U | | 46 | U | | 8.7 | U | |
| Beta-BHC | 96 | U | | 95 | U | | 95 | U | | 48 | U | | 46 | U | | 8.7 | U | |
| Delta-BHC | 96 | U | | 95 | U | | 95 | U | | 48 | U | | 46 | U | | 8.7 | U | |
| gamma-BHC (Lindane) | 96 | U | | D | % | | D | % | | 48 | U | | 46 | U | | 8.7 | U | |
| Heptachlor | 96 | U | | D | % | | D | % | | 48 | U | | 46 | U | | 8.7 | U | |
| Aldrin | 96 | U | | D | % | | D | % | | 48 | U | | 46 | U | | 8.7 | U | |
| Heptachlor epoxide | 96 | U | | 95 | U | | 95 | U | | 48 | U | | 46 | U | | 8.7 | U | |
| Endosulfan I | 96 | U | | 95 | U | | 95 | U | | 48 | U | | 46 | U | | 8.7 | U | |
| Dieldrin | 190 | U | | D | % | | D | % | | 96 | U | | 92 | U | | 17 | U | |
| 4,4'-DDE | 190 | U | | 190 | U | | 190 | U | | 96 | U | | 92 | U | | 17 | U | |
| Endrin | 190 | U | | D | % | | D | % | | 96 | U | | 92 | U | | 17 | U | |
| Endosulfan II | 190 | U | | 190 | U | | 190 | U | | 96 | U | | 92 | U | | 17 | U | |
| 4,4'-DDD | 190 | U | | 190 | U | | 190 | U | | 96 | U | | 92 | U | | 17 | U | |
| Endosulfan sulfate | 190 | U | | 190 | U | | 190 | U | | 96 | U | | 92 | U | | 17 | U | |
| 4,4'-DDT | 24 | J | | D | % | | D | % | | 96 | U | | 92 | U | | 17 | U | |
| Methoxychlor | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Endrin ketone | 190 | U | | 190 | U | | 190 | U | | 96 | U | | 92 | U | | 17 | U | |
| alpha-Chlordane | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| gamma-Chlordane | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Toxaphene | 1900 | U | | 1900 | U | | 1900 | U | | 960 | U | | 920 | U | | 170 | U | |
| Aroclor-1016 | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Aroclor-1221 | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Aroclor-1232 | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Aroclor-1242 | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Aroclor-1248 | 960 | U | | 950 | U | | 950 | U | | 480 | U | | 460 | U | | 87 | U | |
| Aroclor-1254 | 1900 | U | | 1900 | U | | 1900 | U | | 960 | U | | 920 | U | | 170 | U | |
| Aroclor-1260 | 1900 | U | | 1900 | U | | 1900 | U | | 960 | U | | 920 | U | | 170 | U | |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSO MW02D 3341 DP | | LRSO MW01D 1620 | | LRSO MW01D 4044 | | LRSO MW03D 1820 | | PBLK | | PBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RFW#: | 010 | | 012 | | 014 | | 015 | | 91GP0406-MB1 | | 91GP0406-MB1 | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Surrogate: Di-n-butylchlorendate | | 98 | % fl | 91 | % fl | 94 | % fl | 94 | % fl | 103 | % fl | 112 | % fl |
| Alpha-BHC | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 8.0 | U |
| Beta-BHC | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 8.0 | U |
| Delta-BHC | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 8.0 | U |
| gamma-BHC (Lindane) | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 99 | % |
| Heptachlor | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 109 | % |
| Aldrin | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 90 | % |
| Heptachlor epoxide | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 8.0 | U |
| Endosulfan I | | 9.3 | U | 9.2 | U | 9.2 | U | 9.2 | U | 8.0 | U | 8.0 | U |
| Dieldrin | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 107 | % |
| 4,4'-DDE | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 16 | U |
| Endrin | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 112 | % |
| Endosulfan II | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 16 | U |
| 4,4'-DDD | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 16 | U |
| Endosulfan sulfate | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 16 | U |
| 4,4'-DDT | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 129 | % |
| Methoxychlor | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Endrin ketone | | 19 | U | 18 | U | 18 | U | 18 | U | 16 | U | 16 | U |
| alpha-Chlordane | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| gamma-Chlordane | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Toxaphene | | 190 | U | 180 | U | 180 | U | 180 | U | 160 | U | 160 | U |
| Aroclor-1016 | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Aroclor-1221 | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Aroclor-1232 | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Aroclor-1242 | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Aroclor-1248 | | 93 | U | 92 | U | 92 | U | 92 | U | 80 | U | 80 | U |
| Aroclor-1254 | | 190 | U | 180 | U | 180 | U | 180 | U | 160 | U | 160 | U |
| Aroclor-1260 | | 190 | U | 180 | U | 180 | U | 180 | U | 160 | U | 160 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Cust ID: PBLK BSD

Sample Information

RFW#: 91GP0406-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | |
|---|---|---|
| Surrogate: Di-n-butylchlorendate | 108 | % |
| Alpha-BHC | 8.0 | U |
| Beta-BHC | 8.0 | U |
| Delta-BHC | 8.0 | U |
| gamma-BHC (Lindane) | 109 | % |
| Heptachlor | 109 | % |
| Aldrin | 90 | % |
| Heptachlor epoxide | 8.0 | U |
| Endosulfan I | 8.0 | U |
| Dieldrin | 103 | % |
| 4,4'-DDE | 16 | U |
| Endrin | 112 | % |
| Endosulfan II | 16 | U |
| 4,4'-DDD | 16 | U |
| Endosulfan sulfate | 16 | U |
| 4,4'-DDT | 113 | % |
| Methoxychlor | 80 | U |
| Endrin ketone | 16 | U |
| alpha-Chlordane | 80 | U |
| gamma-Chlordane | 80 | U |
| Toxaphene | 160 | U |
| Aroclor-1016 | 80 | U |
| Aroclor-1221 | 80 | U |
| Aroclor-1232 | 80 | U |
| Aroclor-1242 | 80 | U |
| Aroclor-1248 | 80 | U |
| Aroclor-1254 | 160 | U |
| Aroclor-1260 | 160 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 91056526 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/17/91 14:50 Page: 1

| Sample Information | Cust ID: | LRS0 SB02 0106 | LRS0 SB02 0813 | LRS0 SB02 1420 | LRS0 SB02 1420 DP | LRS0 SB03 0106 | LRS0 SB03 1117 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 002 | 004 | 006 | 008 | 010 | 012 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 50.0 | 5.00 | 1.00 | 1.00 | 10.0 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |

| Surrogate: Di-n-butylchlorendate | D | % fl | 64 | % fl | 96 | % fl | 93 | % fl | I | % fl | 77 | % fl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alpha-BHC | 480 | U | 48 | U | 9.2 | U | 9.3 | U | 140 | U | 11 | U |
| Beta-BHC | 480 | U | 48 | U | 9.2 | U | 9.3 | U | 140 | U | 11 | U |
| Delta-BHC | 480 | U | 48 | U | 9.2 | U | 9.3 | U | 140 | U | 11 | U |
| gamma-BHC (Lindane) | 480 | U | 48 | U | 9.2 | U | 9.3 | U | 140 | U | 11 | U |
| Heptachlor | 480 | U | 48 | U | 9.2 | U | 9.3 | U | 140 | U | 11 | U |
| Aldrin | 480 | U | 48 | U | .2 | U | 9.3 | U | 140 | U | 11 | U |
| Heptachlor epoxide | 480 | U | 48 | U | ? | U | 9.3 | U | 140 | U | 11 | U |
| Endosulfan I | 480 | U | 48 | U | | U | 9.3 | U | 140 | U | 11 | U |
| Dieldrin | 960 | U | 96 | U | | U | 19 | U | 280 | U | 22 | U |
| 4,4'-DDE | 960 | U | 96 | U | | | 19 | U | 280 | U | 22 | U |
| Endrin | 960 | U | 96 | U | | | 19 | U | 280 | U | 22 | U |
| Endosulfan II | 960 | U | 96 | U | .6 | U | 19 | U | 280 | U | 22 | U |
| 4,4'-DDD | 960 | U | 9[illegible] | U | 18 | U | 19 | U | 280 | U | 22 | U |
| Endosulfan sulfate | 960 | U | 96 | U | 18 | U | 19 | U | 280 | U | 22 | U |
| 4,4'-DDT | 200 | J | 96 | J | 18 | U | 19 | U | 280 | U | 22 | U |
| Methoxychlor | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Endrin ketone | 960 | U | 96 | U | 18 | U | 19 | U | 280 | U | 22 | U |
| alpha-Chlordane | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| gamma-Chlordane | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Toxaphene | 9600 | U | 960 | U | 180 | U | 190 | U | 2800 | U | 220 | U |
| Aroclor-1016 | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Aroclor-1221 | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Aroclor-1232 | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Aroclor-1242 | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Aroclor-1248 | 4800 | U | 480 | U | 92 | U | 93 | U | 1400 | U | 110 | U |
| Aroclor-1254 | 9600 | U | 430 | J | 180 | U | 190 | U | 4800 | | 220 | U |
| Aroclor-1260 | 9600 | U | 960 | U | 180 | U | 190 | U | 2800 | U | 220 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | LRSO SB03 1117 | LRSO SB03 1117 | LRSO MW04 0814 | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|---|---|
| | RFW#: | 012 MS | 012 MSD | 014 | 91GP0417-MB1 | 91GP0417-MB1 | 91GP0417-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate: Di-n-butylchlorendate | | 88 % | 81 % | 96 % | 101 % | 94 % | 98 % |
| | | fl | fl | fl | fl | fl | fl |
| Alpha-BHC | | 11 U | 11 U | 9.7 U | 8.0 U | 8.0 U | 8.0 U |
| Beta-BHC | | 11 U | 11 U | 9.7 U | 8.0 U | 8.0 U | 8.0 U |
| Delta-BHC | | 11 U | 11 U | 9.7 U | 8.0 U | 8.0 U | 8.0 U |
| gamma-BHC (Lindane) | | 89 % | 89 % | 9.7 U | 8.0 U | 119 % | 89 % |
| Heptachlor | | 89 % | 89 % | 9.7 U | 8.0 U | 109 % | 89 % |
| Aldrin | | 80 % | 80 % | 9.7 U | 8.0 U | 100 % | 80 % |
| Heptachlor epoxide | | 11 U | 11 U | 9.7 U | 8.0 U | 8.0 U | 8.0 U |
| Endosulfan I | | 11 U | 11 U | 9.7 U | 8.0 U | 8.0 U | 8.0 U |
| Dieldrin | | 87 % | 79 % | 19 U | 16 U | 123 % | 91 % |
| 4,4'-DDE | | 21 U | 22 U | 19 U | 16 U | 16 U | 16 U |
| Endrin | | 93 % | 90 % | 19 U | 16 U | 134 % | 97 % |
| Endosulfan II | | 21 U | 22 U | 19 U | 16 U | 16 U | 16 U |
| 4,4'-DDD | | 21 U | 22 U | 19 U | 16 U | 16 U | 16 U |
| Endosulfan sulfate | | 21 U | 22 U | 19 U | 16 U | 16 U | 16 U |
| 4,4'-DDT | | 78 % | 78 % | 19 U | 16 U | 109 % | 86 % |
| Methoxychlor | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Endrin ketone | | 21 U | 22 U | 19 U | 16 U | 16 U | 16 U |
| alpha-Chlordane | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| gamma-Chlordane | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Toxaphene | | 210 U | 220 U | 190 U | 160 U | 160 U | 160 U |
| Aroclor-1016 | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Aroclor-1221 | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Aroclor-1232 | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Aroclor-1242 | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Aroclor-1248 | | 110 U | 110 U | 97 U | 80 U | 80 U | 80 U |
| Aroclor-1254 | | 210 U | 220 U | 63 J | 160 U | 160 U | 160 U |
| Aroclor-1260 | | 210 U | 220 U | 190 U | 160 U | 160 U | 160 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9105G258 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 06/30/91 15:06 Page: 1

| Sample Information | Cust ID: | LRSO-MW01S-0 208 | LRSO-MW01S-0 814 | LRSO-MW02S-0 308 | LRSO-MW03S-0 212 | PBLK | PBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 91GP0386-MB1 | 91GP0386-MB1 |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | D.F.: | 50.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Surrogate: Di-n-butylchlorendate | | D % fl | 69 % fl | 76 % fl | 86 % fl | 96 % fl | 96 % fl |
| Alpha-BHC | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 8.0 U |
| Beta-BHC | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 8.0 U |
| Delta-BHC | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 8.0 U |
| gamma-BHC (Lindane) | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 99 % |
| Heptachlor | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 99 % |
| Aldrin | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 80 % |
| Heptachlor epoxide | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 8.0 U |
| Endosulfan I | | 690 U | 9.2 U | 9.5 U | 9.1 U | 8.0 U | 8.0 U |
| Dieldrin | | 1400 U | 18 U | 19 U | 18 U | 16 U | 99 % |
| 4,4'-DDE | | 1400 U | 18 U | 19 U | 18 U | 16 U | 16 U |
| Endrin | | 1400 U | 18 U | 19 U | 18 U | 16 U | 127 % |
| Endosulfan II | | 1400 U | 18 U | 19 U | 18 U | 16 U | 16 U |
| 4,4'-DDD | | 1400 U | 18 U | 19 U | 18 U | 16 U | 16 U |
| Endosulfan sulfate | | 1400 U | 18 U | 19 U | 18 U | 16 U | 16 U |
| 4,4'-DDT | | 1400 U | 18 U | 19 U | 18 U | 16 U | 117 % |
| Methoxychlor | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Endrin ketone | | 1400 U | 18 U | 19 U | 18 U | 16 U | 16 U |
| alpha-Chlordane | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| gamma-Chlordane | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Toxaphene | | 14000 U | 180 U | 190 U | 180 U | 160 U | 160 U |
| Aroclor-1016 | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Aroclor-1221 | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Aroclor-1232 | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Aroclor-1242 | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Aroclor-1248 | | 6900 U | 92 U | 95 U | 91 U | 80 U | 80 U |
| Aroclor-1254 | | 59000 | 91 J | 190 U | 180 U | 160 U | 160 U |
| Aroclor-1260 | | 14000 U | 180 U | 190 U | 180 U | 160 U | 160 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Cust ID: PBLK BSD

Sample Information

RFW#: 91GP0386-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

| | | |
|---|---|---|
| Surrogate: Di-n-butylchlorendate | 91 | % |
| Alpha-BHC | 8.0 | U |
| Beta-BHC | 8.0 | U |
| Delta-BHC | 8.0 | U |
| gamma-BHC (Lindane) | 99 | % |
| Heptachlor | 99 | % |
| Aldrin | 80 | % |
| Heptachlor epoxide | 8.0 | U |
| Endosulfan I | 8.0 | U |
| Dieldrin | 103 | % |
| 4,4'-DDE | 16 | U |
| Endrin | 127 | % |
| Endosulfan II | 16 | U |
| 4,4'-DDD | 16 | U |
| Endosulfan sulfate | 16 | U |
| 4,4'-DDT | 117 | % |
| Methoxychlor | 80 | U |
| Endrin ketone | 16 | U |
| alpha-Chlordane | 80 | U |
| gamma-Chlordane | 80 | U |
| Toxaphene | 160 | U |
| Aroclor-1016 | 80 | U |
| Aroclor-1221 | 80 | U |
| Aroclor-1232 | 80 | U |
| Aroclor-1242 | 80 | U |
| Aroclor-1248 | 80 | U |
| Aroclor-1254 | 160 | U |
| Aroclor-1260 | 160 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105G332 |

Client GM
Work Order 1138-58-02
Date Rec'd. ____ Date Due ____
RFW Contact Babusukamar
Client Contact/Phone ____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | | | |
| #/Type Container | | | 1/G | 1/G | 1/G | | | | | | | |
| Volume | | | 2oz | 8oz | 32oz | | | | | | | |
| Preservative | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | | TCL VOA | TAL Metals CN | BNA PCB | | | | | | | |
| 001 | LRSOSBØ1 1Ø12 | S | 5-18-91 | X | | | | | | | | |
| 002 | LRSOSBØ1 0010 | | | | X | X | | | | | | |
| 003 | LRSO SBØ1 2224 | | | X | | | | | | | | |
| 004 | LRSO SBØ1 2226 | | | | X | X | | | | | | |
| 005 | LRSO MWØ2D1921 | | 5-19-91 | X | | | | | | | | |
| 006 | LRSO MWØ2D1923 | | | | X | X | | | | | | |
| 007 | LRSO MWØ2D 3335 | | | X | | | | | | | | |
| 008 | LRSO MWØ2D 3341 | | | | X | X | | | | | | |
| 009 | LRSOMWØ2D 3335 DP | | | X | | | | | | | | |
| 010 | LRSOMWØ2D 3341 DP | | | | X | X | | | | | | |
| 011 | LRSO MWØ1D 1820 | | 5-20-91 | X | | | | | | | | |
| 012 | LRSO MWØ1 D 1620 | | | | X | X | | | | | | |
| 013 | LRSO MWØ1 D 4Ø42 | | | X | | | | | | | | |
| 014 | LRSO MWØ1 D 4Ø44 | | | | X | X | | | | | | |
| 015 | LRSOMWØ3D 1820 | | | X | X | X | | | | | | |

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions: WESTON /GC SEAL 0011710

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| 1 cooler | C. LO Kaumm | Fed Ex | 5/21/91 | 1200 |
| | | Hillgeach | | 1110 |
| | | | | |
| | | | | |
| | | | | |

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered (Y) N
NOTES: Fed X

2 Ambient or Chilled (Chilled)
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) N
NOTES: MW 1-1, 13

RFW 21-21-001/A-12/88

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9105252 |

Client GM
Work Order 1138-58-02
Date Rec'd. _____ Date Due _____
RFW Contact Babusukamur
Client Contact/Phone 208-918-4000

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 1/GL | 1/GL | 1/GL | | | | | | |
| | | | | Volume | 2 oz | 8 oz | 32 oz | | | | | | |
| | | | | Preservative | cool | cool | cool | | | | | | |
| | | | | ANALYSES REQUESTED → | VOC | Metals CN | BNA PCB | | | | | | |
| 001 | LRSO SB020506 | S | 5-30-91 | X | | | | | | | | | |
| 002 | LRSO SB020106 | | | | X | X | | | | | | | |
| 003 | LRSO SB020809 | | | X | | | | | | | | | |
| 004 | LRSO SB020813 | | | | X | X | | | | | | | |
| 005 | LRSO SB021416 | | | X | | | | | | | | | |
| 006 | LRSO SB021420 | | | | X | X | | | | | | | |
| 007 | LRSO SB021416 DP | | | X | | | | | | | | | |
| 008 | LRSO SB021420 DP | | | | X | X | | | | | | | |
| 009 | LRSO SB030304 | | | X | | | | | | | | | |
| 010 | LRSO SB030106 | | | | X | X | | | | | | | |
| 011 | LRSO SB031112 | | | X | | | | | | | | | |
| 012 | LRSO SB031117 | ↓ | ↓ | | X | X | | | | | | | |
| 013 cwk | ~~LRSO SB~~ LRSO MW04S0910 | | | X | | | | | | | | | |
| 014 | LRSO MW04S0814 | ↓ | ↓ | | X | X | | | | | | | |
| | | | | | | | | | | | | | |

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: GC custody seal 0011724
MS/MSD on SB031112 & SB021117 per J Huber
QC-CLP July Tier II per J. Huber

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| 1 cooler | C.W. Krumm | Fed Ex | | |
| | | Yellow Cab | 7-1-91 | 1143 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**WESTON Analytics Use Only**

Samples Were:
1 Shipped or Hand-Delivered
NOTES: FedEx

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample (Y) N
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? Y (N)
NOTES:

RFW 21-21-001/A-12/88

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 91056259 |

Client GM
Work Order 1138-58-02
Date Rec'd. _____ Date Due _____
RFW Contact Babusukamar
Client Contact/Phone _____

| WA Use Only Leb ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 3/G | 1/G | 1/G | | | | | | |
| | | | | Volume | 2 oz | 8 oz | 32oz | | | | | | |
| | | | | Preservative | — | — | — | | | | | | |
| | | | | ANALYSES REQUESTED | TCL VOA | TAL Metals CN | BNA PCB | | | | | | |
| 001 | LR50-MW01S-0208 | S | 5-15-91 | | X | X | X | | | | | | |
| 002 | LR50-MW01S-0814 | S | ↓ | | X | X | X | | | | | | |
| 003 | LR50-MW02S-0308 | S | | | X | X | X | | | | | | |
| 004 | LR50-MW03S-0312 | S | | | X | X | X | | | | | | |
| | | | | | UJ/R | | | | | | | | |

Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions: WESTON/GC SEAL 0011710

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | C.M. Krumm | Fed Ex | 5/16/91 | 2C |
| | | [illegible] | 5/17/91 | 1157 |
| | | | | |
| | | | | |
| | | | | |

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered (Y) N
NOTES: Fed X

2 Ambient or Chilled (Y) N
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) N
NOTES: Sample ID LR50-MW03S-0312 on COC, but LR50-MW03S-0311 on sample label.

RFW-21-21-001/A-12/88

- Received correct amt. of VOA's; correct ID is 0212, not 0312 as per Chris Krumm.

Only received 1 VOA for LR50-MW03S-0311

LABORATORY DATA SUMMARIES FOR
INORGANIC COMPOUND ANALYSES ARE
AVAILABLE FROM ROY F. WESTON, INC., AND
WILL BE SUBMITTED ON REQUEST

# APPENDIX G.3.3

## GROUNDWATER SAMPLES - ROUND 1
## (MAY/JUNE 1991)

# DATA REVIEW SUMMARY

DATE: 7-30-91

SUBJECT: DATA REVIEW

PROJECT NAME: GM- LINDEN ROAD

PROJECT MANAGER: BABUSOKUMAR

FW #: 91066550

LABORATORY: WESTON - GULF COAST

REVIEWER: M SULLIVAN

SUMMARY OF FINDINGS:

CN-

METALS

AVAILABLE METALS QA/QC ACCEPTABLE

VOA

HOLDING TIMES ACCEPTABLE

SURROGATES ACCEPTABLE

MS ACCEPTABLE

BLANK 91GVB200-MB1 APPLICABLE TO LRGW-MW01D, LRGWMW02D, LRGWMW01-SDP, LRGWMW01S, LR TB02 0000, LRGW MW01DMS, MSD CONTAINS ACETONE - SAMPLES ARE FLAGGED B.

GC/MS TUNING ACCEPTABLE

INITIAL CALIBRATION >30% RSD FOR CHLOROMETHANE + CARBON DISULFIDE
SAMPLES ARE FLAGGED J → MW01D, MW02D, MW01-SDP, MW01-S, TB 02, MW010-MS/MSD

CONTINUING CALIBRATION >25%D FOR ACETONE, 2BUTANONE, 2-HEXANONE
IF RESULTS WERE DETECTED, VALUES WERE FLAGGED J-ESTIMATED

MKS
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
( ) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

(OVER →)

| Sample Information | Cust ID: | LR-GW-MW03-D | LR-GW-MW02-S | LR-GW-MW03-S | LR-GW-TB03 | LR-GW-MW03S-FB | LR-GW-MW04-S |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 97 % | 97 % | 96 % | 97 % | 97 % | 101 % |
| | Bromofluorobenzene | 101 % | 103 % | 104 % | 100 % | 100 % | 106 % |
| | 1,2-Dichloroethane-d4 | 102 % | 105 % | 105 % | 106 % | 110 % | 103 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 5 U | 7 | 5 U | 7 | 10 | 5 U |
| Acetone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 22 | 5 U |
| 1,1-Dichloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 12 | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 5 U | 10 | 5 U | 5 U | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LR-GW-MW03-D | LR-GW-MW02-S | LR-GW-MW03-S | LR-GW-TB03 | LR-GW-MW03S-FB | LR-GW-MW04-S |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| Toluene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LR-SO-SB04-0003 | LR-SO-SB04-0003 | VBLK | VBLK | VBLK | VBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 007 | 007 DL | 91GVE137-MB1 | 91GVE138-MB1 | 91GVC219-MB1 | 91GVC219-MB1 |
| | Matrix: | DRUM | DRUM | WATER | WATER | SOIL | SOIL |
| | D.F.: | 10.0 | 100 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/Kg | ug/Kg | ug/L | ug/L | ug/Kg | ug/Kg |
| Surrogate Recovery | Toluene-d8 | 120 * % | 108 % | 97 % | 98 % | 101 % | 106 % |
| | Bromofluorobenzene | 80 % | 99 % | 100 % | 102 % | 98 % | 97 % |
| | 1,2-Dichloroethane-d4 | 105 % | 104 % | 101 % | 97 % | 105 % | 109 % |
| Chloromethane | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 450 B | NA | 5 U | 5 U | 24 | 26 B |
| Acetone | | 530 B | NA | 10 U | 10 U | 13 | 100 B |
| Carbon Disulfide | | 130 | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 50 U | NA | 5 U | 5 U | 5 U | 84 % |
| 1,1-Dichloroethane | | 1200 | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 99 J | NA | 10 U | 10 U | 10 U | 10 |
| 1,1,1-Trichloroethane | | E | 1100 | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 1900 | NA | 5 U | 5 U | 5 U | 103 % |
| Dibromochloromethane | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 260 | NA | 5 U | 5 U | 5 U | 108 % |
| Trans-1,3-Dichloropropene | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 50 U | NA | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 100 U | NA | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 51 | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 94 | NA | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LR-S0-SB04-0 003 | | LR-S0-SB04-0 003 | VBLK | VBLK | VBLK | VBLK BS |
|---|---|---|---|---|---|---|---|
| RFW#: | 007 | | 007 DL | 91GVE137-MB1 | 91GVE138-MB1 | 91GVC219-MB1 | 91GVC219-MB1 |
| Toluene | | E J | 1400 | 5 U | 5 U | 5 U | 115 % |
| Chlorobenzene | 50 | U J | NA | 5 U | 5 U | 5 U | 109 % |
| Ethylbenzene | 890 | J | NA | 5 U | 5 U | 5 U | 5 U |
| Styrene | 50 | U J | NA | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | | E J | 4100 | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| | Cust ID: | VBLK | | VBLK BS | |
|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GVB210-MB1 | | 91GVB210-MB1 | |
| | Matrix: | SOIL | | SOIL | |
| | D.F.: | 1.00 | | 1.00 | |
| | Units: | ug/Kg | | ug/Kg | |
| Surrogate Recovery | Toluene-d8 | 98 | % | 111 | % |
| | Bromofluorobenzene | 92 | % | 100 | % |
| | 1,2-Dichloroethane-d4 | 92 | % | 104 | % |
| Chloromethane | | 10 | U | 10 | U |
| Bromomethane | | 10 | U | 10 | U |
| Vinyl Chloride | | 10 | U | 10 | U |
| Chloroethane | | 10 | U | 10 | U |
| Methylene Chloride | | 8 | | 6 | B |
| Acetone | | 4 | J | 3 | JB |
| Carbon Disulfide | | 5 | U | 5 | U |
| 1,1-Dichloroethene | | 5 | U | 77 | % |
| 1,1-Dichloroethane | | 5 | U | 5 | U |
| 1,2-Dichloroethene (total) | | 5 | U | 5 | U |
| Chloroform | | 5 | U | 5 | U |
| 1,2-Dichloroethane | | 5 | U | 5 | U |
| 2-Butanone | | 10 | U | 10 | U |
| 1,1,1-Trichloroethane | | 5 | U | 5 | U |
| Carbon Tetrachloride | | 5 | U | 5 | U |
| Vinyl Acetate | | 10 | U | 10 | U |
| Bromodichloromethane | | 5 | U | 5 | U |
| 1,2-Dichloropropane | | 5 | U | 5 | U |
| cis-1,3-Dichloropropene | | 5 | U | 5 | U |
| Trichloroethene | | 5 | U | 88 | % |
| Dibromochloromethane | | 5 | U | 5 | U |
| 1,1,2-Trichloroethane | | 5 | U | 5 | U |
| Benzene | | 5 | U | 104 | % |
| Trans-1,3-Dichloropropene | | 5 | U | 5 | U |
| Bromoform | | 5 | U | 5 | U |
| 4-Methyl-2-pentanone | | 10 | U | 10 | U |
| 2-Hexanone | | 10 | U | 10 | U |
| Tetrachloroethene | | 5 | U | 5 | U |
| 1,1,2,2-Tetrachloroethane | | 5 | U | 5 | U |

*= Outside of EPA CLP QC limits.

| | Cust ID: VBLK | VBLK BS |
|---|---|---|
| | RFW#: 91GVB210-MB1 | 91GVB210-MB1 |
| Toluene | 5 U | 112 % |
| Chlorobenzene | 5 U | 101 % |
| Ethylbenzene | 5 U | 5 U |
| Styrene | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9106G550 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/16/91 09:17 Page: 1a

| Sample Information | Cust ID: | LRGW MW01D | LRGW MW01D | LRGW MW01D | LRGW MW02D | LRGW MW01-SD P | LRGW MW01-SD P |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 MS | 001 MSD | 002 | 003 | 003 DL |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 98 % | 100 % | 101 % | 101 % | 98 % | 102 % |
| | Bromofluorobenzene | 100 % | 104 % | 106 % | 103 % | 101 % | 108 % |
| | 1,2-Dichloroethane-d4 | 98 % | 100 % | 102 % | 97 % | 98 % | 99 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Methylene Chloride | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Acetone | | 13 B | 3 JB | 3 JB | 9 JB | 10 U | NA |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,1-Dichloroethene | | 5 U | 100 % | 105 % | 5 U | 5 U | NA |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 37 | NA |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Trichloroethene | | 5 U | 95 % | 98 % | 5 U | E | 380 |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Benzene | | 5 U | 103 % | 107 % | 5 U | 5 U | NA |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | NA |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | NA |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRGW MW01D | LRGW MW01D | LRGW MW01D | LRGW MW02D | LRGW MW01-SD P | LRGW MW01-SD P |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 001 MS | 001 MSD | 002 | 003 | 003 DL |
| Toluene | 5 U | 99 % | 104 % | 5 U | 5 U | NA |
| Chlorobenzene | 5 U | 103 % | 107 % | 5 U | 5 U | NA |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | NA |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | NA |

*= Outside of EPA CLP QC limits.

[redacted] Roy F. [illegible]ton, Inc. - Gulf Coast Laboratories

VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9106G550 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/16/91 09:17 Page: 2a

| Sample Information | Cust ID: | LRGW MW01-S | LRGW MW01-S | LR TB02 0000 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 004 | 004 DL | 005 | 91GVB200-MB1 | 91GVB200-MB1 | 91GVE156-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 99 % | 101 % | 101 % | 98 % | 99 % | 100 % |
| | Bromofluorobenzene | 101 % | 107 % | 107 % | 103 % | 99 % | 109 % |
| | 1,2-Dichloroethane-d4 | 95 % | 102 % | 100 % | 96 % | 100 % | 98 % |
| Chloromethane | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Acetone | | 6 JB | NA | 4 JB | 21 | 10 U | 10 U |
| Carbon Disulfide | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | NA | 5 U | 5 U | 105 % | 5 U |
| 1,1-Dichloroethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 36 | NA | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | E | 300 | 5 U | 5 U | 89 % | 5 U |
| Dibromochloromethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | NA | 5 U | 5 U | 103 % | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | NA | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | NA | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRGW MW01-S | LRGW MW01-S | LR TB02 0000 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|
| RFW#: | 004 | 004 DL | 005 | 91GVB200-MB1 | 91GVB200-MB1 | 91GVE156-MB1 |
| Toluene | 5 U | NA | 5 U | 5 U | 98 % | 5 U |
| Chlorobenzene | 5 U | NA | 5 U | 5 U | 98 % | 5 U |
| Ethylbenzene | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | NA | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | NA | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

[redacted] Roy F. Weston, Inc. Gulf Coast Laboratories [redacted] [redacted] [redacted]

SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9106G564 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/05/91 14:46 Page: 1a

| Sample Information | Cust ID: | LR-GW-MW03-D | LR-GW-MW02-S | LR-GW-MW03-S | LR-GW-MW03S-FB | LR-GW-MW04-S | LR-SO-SB04-0003 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 005 | 006 | 007 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | DRUM |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.0 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 65 % | 80 % | 69 % | 59 % | 76 % | NA % |
| | 2-Fluorobiphenyl | 65 % | 76 % | 69 % | 60 % | 71 % | NA % |
| | Terphenyl-d14 | 72 % | 87 % | 88 % | 85 % | 77 % | NA % |
| | Phenol-d5 | 29 % | 26 % | 24 % | 30 % | 30 % | NA % |
| | 2-Fluorophenol | 45 % | 39 % | 34 % | 46 % | 48 % | NA % |
| | 2,4,6-Br3-phenol | 65 % | 57 % | 56 % | 67 % | 65 % | NA % |
| Phenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| bis(2-Chloroethyl)ether | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2-Chlorophenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 1,3-Dichlorobenzene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 1,4-Dichlorobenzene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzyl alcohol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 1,2-Dichlorobenzene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2-Methylphenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| bis(2-Chloroisopropyl)ether | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Methylphenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| N-Nitroso-Di-n-propylamine | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Hexachloroethane | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Nitrobenzene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Isophorone | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2-Nitrophenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,4-Dimethylphenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzoic acid | | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| bis(2-Chloroethoxy)methane | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,4-Dichlorophenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 1,2,4-Trichlorobenzene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Naphthalene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Chloroaniline | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Hexachlorobutadiene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Chloro-3-methylphenol | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2-Methylnaphthalene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Hexachlorocyclopentadiene | | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LR-GW-MW03-D | LR-GW-MW02-S | LR-GW-MW03-S | LR-GW-MW03S-FB | LR-GW-MW04-S | LR-S0-SB04-0 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 002 | 003 | 005 | 006 | 003 007 |
| 2,4,6-Trichlorophenol | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,4,5-Trichlorophenol | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| 2-Chloronaphthalene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2-Nitroaniline | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| Dimethylphthalate | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Acenaphthylene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,6-Dinitrotoluene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 3-Nitroaniline | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| Acenaphthene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,4-Dinitrophenol | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| 4-Nitrophenol | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| Dibenzofuran | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 2,4-Dinitrotoluene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Diethylphthalate | 1 J | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Chlorophenyl-phenylether | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Fluorene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Nitroaniline | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| 4,6-Dinitro-2-methylphenol | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| N-Nitrosodiphenylamine (1) | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 4-Bromophenyl-phenylether | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Hexachlorobenzene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Pentachlorophenol | 49 U | 44 U | 45 U | 50 U | 42 U | 500000 U |
| Phenanthrene | 10 U | 9 U | 9 U | 10 U | 8 U | 28000 J |
| Anthracene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Di-n-Butylphthalate | 10 U | 9 U | 1 J | 10 U | 8 U | 99000 U |
| Fluoranthene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Pyrene | 10 U | 9 U | 9 U | 10 U | 8 U | 14000 J |
| Butylbenzylphthalate | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| 3,3'-Dichlorobenzidine | 20 U | 18 U | 18 U | 20 U | 17 U | 200000 U |
| Benzo(a)anthracene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Chrysene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Di-n-Octyl phthalate | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzo(b)fluoranthene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzo(k)fluoranthene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzo(a)pyrene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Dibenzo(a,h)anthracene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |
| Benzo(g,h,i)perylene | 10 U | 9 U | 9 U | 10 U | 8 U | 99000 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| | Cust ID: | SBLK | SBLK BS | SBLK BSD | SBLK |
|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GB0263-MB1 | 91GB0263-MB1 | 91GB0263-MB1 | 91GB0270-MB1 |
| | Matrix: | WATER | WATER | WATER | SOIL |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/Kg |
| Surrogate Recovery | Nitrobenzene-d5 | 78 % | 74 % | 77 % | NA % |
| | 2-Fluorobiphenyl | 66 % | 63 % | 69 % | NA % |
| | Terphenyl-d14 | 87 % | 85 % | 86 % | NA % |
| | Phenol-d5 | 28 % | 33 % | 29 % | NA % |
| | 2-Fluorophenol | 46 % | 50 % | 48 % | NA % |
| | 2,4,6-Br3-phenol | 66 % | 67 % | 70 % | NA % |
| Phenol | | 10 U | 34 % | 31 % | 330 U |
| bis(2-Chloroethyl)ether | | 10 U | 10 U | 10 U | 330 U |
| 2-Chlorophenol | | 10 U | 69 % | 74 % | 330 U |
| 1,3-Dichlorobenzene | | 10 U | 10 U | 10 U | 330 U |
| 1,4-Dichlorobenzene | | 10 U | 57 % | 64 % | 330 U |
| Benzyl alcohol | | 10 U | 10 U | 10 U | 330 U |
| 1,2-Dichlorobenzene | | 10 U | 10 U | 10 U | 330 U |
| 2-Methylphenol | | 10 U | 10 U | 10 U | 330 U |
| bis(2-Chloroisopropyl)ether | | 10 U | 10 U | 10 U | 330 U |
| 4-Methylphenol | | 10 U | 10 U | 10 U | 330 U |
| N-Nitroso-Di-n-propylamine | | 10 U | 63 % | 67 % | 330 U |
| Hexachloroethane | | 10 U | 10 U | 10 U | 330 U |
| Nitrobenzene | | 10 U | 10 U | 10 U | 330 U |
| Isophorone | | 10 U | 10 U | 10 U | 330 U |
| 2-Nitrophenol | | 10 U | 10 U | 10 U | 330 U |
| 2,4-Dimethylphenol | | 10 U | 10 U | 10 U | 330 U |
| Benzoic acid | | 50 U | 50 U | 50 U | 1700 U |
| bis(2-Chloroethoxy)methane | | 10 U | 10 U | 10 U | 330 U |
| 2,4-Dichlorophenol | | 10 U | 10 U | 10 U | 330 U |
| 1,2,4-Trichlorobenzene | | 10 U | 69 % | 78 % | 330 U |
| Naphthalene | | 10 U | 10 U | 10 U | 330 U |
| 4-Chloroaniline | | 10 U | 10 U | 10 U | 330 U |
| Hexachlorobutadiene | | 10 U | 10 U | 10 U | 330 U |
| 4-Chloro-3-methylphenol | | 10 U | 64 % | 69 % | 330 U |
| 2-Methylnaphthalene | | 10 U | 10 U | 10 U | 330 U |
| Hexachlorocyclopentadiene | | 10 U | 10 U | 10 U | 330 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | SBLK | SBLK BS | SBLK BSD | SBLK |
|---|---|---|---|---|
| RFW#: | 91GB0263-MB1 | 91GB0263-MB1 | 91GB0263-MB1 | 91GB0270-MB1 |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U | 330 U |
| 2,4,5-Trichlorophenol | 50 U | 50 U | 50 U | 1700 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U | 330 U |
| 2-Nitroaniline | 50 U | 50 U | 50 U | 1700 U |
| Dimethylphthalate | 10 U | 10 U | 10 U | 330 U |
| Acenaphthylene | 10 U | 10 U | 10 U | 330 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 10 U | 330 U |
| 3-Nitroaniline | 50 U | 50 U | 50 U | 1700 U |
| Acenaphthene | 10 U | 72 % | 76 % | 330 U |
| 2,4-Dinitrophenol | 50 U | 50 U | 50 U | 1700 U |
| 4-Nitrophenol | 50 U | 23 % | 20 % | 1700 U |
| Dibenzofuran | 10 U | 10 U | 10 U | 330 U |
| 2,4-Dinitrotoluene | 10 U | 66 % | 66 % | 330 U |
| Diethylphthalate | 10 U | 10 U | 10 U | 330 U |
| 4-Chlorophenyl-phenylether | 10 U | 10 U | 10 U | 330 U |
| Fluorene | 10 U | 10 U | 10 U | 330 U |
| 4-Nitroaniline | 50 U | 50 U | 50 U | 1700 U |
| 4,6-Dinitro-2-methylphenol | 50 U | 50 U | 50 U | 1700 U |
| N-Nitrosodiphenylamine (1) | 10 U | 10 U | 10 U | 330 U |
| 4-Bromophenyl-phenylether | 10 U | 10 U | 10 U | 330 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U | 330 U |
| Pentachlorophenol | 50 U | 66 % | 73 % | 1700 U |
| Phenanthrene | 10 U | 10 U | 10 U | 330 U |
| Anthracene | 10 U | 10 U | 10 U | 330 U |
| Di-n-Butylphthalate | 10 U | 10 U | 10 U | 330 U |
| Fluoranthene | 10 U | 10 U | 10 U | 330 U |
| Pyrene | 10 U | 88 % | 89 % | 330 U |
| Butylbenzylphthalate | 10 U | 10 U | 10 U | 330 U |
| 3,3'-Dichlorobenzidine | 20 U | 20 U | 20 U | 670 U |
| Benzo(a)anthracene | 10 U | 10 U | 10 U | 330 U |
| Chrysene | 10 U | 10 U | 10 U | 330 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 10 U | 330 U |
| Di-n-Octyl phthalate | 10 U | 10 U | 10 U | 330 U |
| Benzo(b)fluoranthene | 10 U | 10 U | 10 U | 330 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 10 U | 330 U |
| Benzo(a)pyrene | 10 U | 10 U | 10 U | 330 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U | 330 U |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 10 U | 330 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 10 U | 330 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9106G550 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/03/91 11:39 Page: 1a

| Sample Information | Cust ID: | LRGW MW01D | LRGW MW01D | LRGW MW01D | LRGW MW02D | LRGW MW01-SDP | LRGW MW01-S |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 MS | 001 MSD | 002 | 003 | 004 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Nitrobenzene-d5 | 73 % | 71 % | 68 % | 66 % | 77 % | 76 % |
| | 2-Fluorobiphenyl | 71 % | 66 % | 65 % | 58 % | 70 % | 66 % |
| | Terphenyl-d14 | 82 % | 80 % | 79 % | 85 % | 84 % | 78 % |
| | Phenol-d5 | 37 % | 30 % | 30 % | 29 % | 1 * % | 7 * % |
| | 2-Fluorophenol | 56 % | 43 % | 43 % | 45 % | 1 * % | 11 * % |
| | 2,4,6-Br3-phenol | 76 % | 68 % | 71 % | 59 % | 3 * % | 15 % |
| Phenol | | 12 U | 31 % | 32 % | 10 U | 9 U | 8 U |
| bis(2-Chloroethyl)ether | | 12 U | 10 U | 10 U | 10 U | 0.9 J | 0.9 J |
| 2-Chlorophenol | | 12 U | 66 % | 65 % | 10 U | 9 U | 8 U |
| 1,3-Dichlorobenzene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 1,4-Dichlorobenzene | | 12 U | 56 % | 57 % | 10 U | 9 U | 8 U |
| Benzyl alcohol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 1,2-Dichlorobenzene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2-Methylphenol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| bis(2-Chloroisopropyl)ether | | 12 U | 10 U | 10 U | 10 U | 22 J | 22 J |
| 4-Methylphenol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| N-Nitroso-Di-n-propylamine | | 12 U | 61 % | 61 % | 10 U | 9 U | 8 U |
| Hexachloroethane | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Nitrobenzene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Isophorone | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2-Nitrophenol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2,4-Dimethylphenol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Benzoic acid | | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| bis(2-Chloroethoxy)methane | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2,4-Dichlorophenol | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 1,2,4-Trichlorobenzene | | 12 U | 72 % | 72 % | 10 U | 9 U | 8 U |
| Naphthalene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 4-Chloroaniline | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Hexachlorobutadiene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 4-Chloro-3-methylphenol | | 12 U | 24 % | 29 % | 10 U | 9 U | 8 U |
| 2-Methylnaphthalene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Hexachlorocyclopentadiene | | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRGW MW01D | LRGW MW01D | LRGW MW01D | LRGW MW02D | LRGW MW01-SDP | LRGW MW01-S |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 001 MS | 001 MSD | 002 | 003 | 004 |
| 2,4,6-Trichlorophenol | 12 U | 10 U | 10 U | 10 U | 9 U R | 8 U |
| 2,4,5-Trichlorophenol | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| 2-Chloronaphthalene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2-Nitroaniline | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| Dimethylphthalate | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Acenaphthylene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2,6-Dinitrotoluene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 3-Nitroaniline | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| Acenaphthene | 12 U | 74 % | 76 % | 10 U | 9 U | 8 U |
| 2,4-Dinitrophenol | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| 4-Nitrophenol | 62 U | 27 % | 29 % | 51 U | 44 U | 42 U |
| Dibenzofuran | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 2,4-Dinitrotoluene | 12 U | 65 % | 67 % | 10 U | 9 U | 8 U |
| Diethylphthalate | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 4-Chlorophenyl-phenylether | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Fluorene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 4-Nitroaniline | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| 4,6-Dinitro-2-methylphenol | 62 U | 52 U | 50 U | 51 U | 44 U | 42 U |
| N-Nitrosodiphenylamine (1) | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 4-Bromophenyl-phenylether | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Hexachlorobenzene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Pentachlorophenol | 62 U | 66 % | 65 % | 51 U | 44 U | 42 U |
| Phenanthrene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Anthracene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Di-n-Butylphthalate | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Fluoranthene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Pyrene | 12 U | 81 % | 74 % | 10 U | 9 U | 8 U |
| Butylbenzylphthalate | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| 3,3'-Dichlorobenzidine | 25 U | 21 U | 20 U | 20 U | 18 U | 17 U |
| Benzo(a)anthracene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Chrysene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| bis(2-Ethylhexyl)phthalate | 1 J | 1 J | 1 J | 10 U | 9 U | 8 U |
| Di-n-Octyl phthalate | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Benzo(b)fluoranthene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Benzo(k)fluoranthene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Benzo(a)pyrene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Indeno(1,2,3-cd)pyrene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Dibenzo(a,h)anthracene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |
| Benzo(g,h,i)perylene | 12 U | 10 U | 10 U | 10 U | 9 U | 8 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| | Cust ID: | SBLK | | SBLK BS | | SBLK BSD | |
|---|---|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GB0263-MB1 | | 91GB0263-MB1 | | 91GB0263-MB1 | |
| | Matrix: | WATER | | WATER | | WATER | |
| | D.F.: | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/L | | ug/L | | ug/L | |
| Surrogate Recovery | Nitrobenzene-d5 | 78 | % | 74 | % | 77 | % |
| | 2-Fluorobiphenyl | 66 | % | 63 | % | 69 | % |
| | Terphenyl-d14 | 87 | % | 85 | % | 86 | % |
| | Phenol-d5 | 28 | % | 33 | % | 29 | % |
| | 2-Fluorophenol | 46 | % | 50 | % | 48 | % |
| | 2,4,6-Br3-phenol | 66 | % | 67 | % | 70 | % |
| Phenol | | 10 | U | 34 | % | 31 | % |
| bis(2-Chloroethyl)ether | | 10 | U | 10 | U | 10 | U |
| 2-Chlorophenol | | 10 | U | 69 | % | 74 | % |
| 1,3-Dichlorobenzene | | 10 | U | 10 | U | 10 | U |
| 1,4-Dichlorobenzene | | 10 | U | 57 | % | 64 | % |
| Benzyl alcohol | | 10 | U | 10 | U | 10 | U |
| 1,2-Dichlorobenzene | | 10 | U | 10 | U | 10 | U |
| 2-Methylphenol | | 10 | U | 10 | U | 10 | U |
| bis(2-Chloroisopropyl)ether | | 10 | U | 10 | U | 10 | U |
| 4-Methylphenol | | 10 | U | 10 | U | 10 | U |
| N-Nitroso-Di-n-propylamine | | 10 | U | 63 | % | 67 | % |
| Hexachloroethane | | 10 | U | 10 | U | 10 | U |
| Nitrobenzene | | 10 | U | 10 | U | 10 | U |
| Isophorone | | 10 | U | 10 | U | 10 | U |
| 2-Nitrophenol | | 10 | U | 10 | U | 10 | U |
| 2,4-Dimethylphenol | | 10 | U | 10 | U | 10 | U |
| Benzoic acid | | 50 | U | 50 | U | 50 | U |
| bis(2-Chloroethoxy)methane | | 10 | U | 10 | U | 10 | U |
| 2,4-Dichlorophenol | | 10 | U | 10 | U | 10 | U |
| 1,2,4-Trichlorobenzene | | 10 | U | 69 | % | 78 | % |
| Naphthalene | | 10 | U | 10 | U | 10 | U |
| 4-Chloroaniline | | 10 | U | 10 | U | 10 | U |
| Hexachlorobutadiene | | 10 | U | 10 | U | 10 | U |
| 4-Chloro-3-methylphenol | | 10 | U | 64 | % | 69 | % |
| 2-Methylnaphthalene | | 10 | U | 10 | U | 10 | U |
| Hexachlorocyclopentadiene | | 10 | U | 10 | U | 10 | U |

*= Outside of EPA CLP QC limits.

| Cust ID: | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|
| RFW#: | 91GB0263-MB1 | 91GB0263-MB1 | 91GB0263-MB1 |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 10 U |
| 3-Nitroaniline | 50 U | 50 U | 50 U |
| Acenaphthene | 10 U | 72 % | 76 % |
| 2,4-Dinitrophenol | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 50 U | 23 % | 20 % |
| Dibenzofuran | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 U | 66 % | 66 % |
| Diethylphthalate | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-phenylether | 10 U | 10 U | 10 U |
| Fluorene | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-methylphenol | 50 U | 50 U | 50 U |
| N-Nitrosodiphenylamine (1) | 10 U | 10 U | 10 U |
| 4-Bromophenyl-phenylether | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 U | 66 % | 73 % |
| Phenanthrene | 10 U | 10 U | 10 U |
| Anthracene | 10 U | 10 U | 10 U |
| Di-n-Butylphthalate | 10 U | 10 U | 10 U |
| Fluoranthene | 10 U | 10 U | 10 U |
| Pyrene | 10 U | 88 % | 89 % |
| Butylbenzylphthalate | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 U | 10 U | 10 U |
| Chrysene | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 10 U |
| Di-n-Octyl phthalate | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 10 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 91066564 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/07/91 14:20 Page: 1

| Sample Information | Cust ID: | LR-GW-MW03-D | LR-GW-MW02-S | LR-GW-MW03-S | LR-GW-MW03S-FB | LR-GW-MW04-S | LR-SO-SB04-0 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 005 | 006 | 003 007 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | DRUM |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.500 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/Kg |

| Surrogate: Di-n-butylchlorendate | 72 % fl | 93 % fl | 113 % fl | 101 % fl | 112 % fl | 14 * % fl |
|---|---|---|---|---|---|---|
| Alpha-BHC | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U J |
| Beta-BHC | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Delta-BHC | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| gamma-BHC (Lindane) | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Heptachlor | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Aldrin | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Heptachlor epoxide | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Endosulfan I | 0.056 U | 0.052 U | 0.052 U | 0.047 U | 0.047 U | 120 U |
| Dieldrin | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| 4,4'-DDE | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| Endrin | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| Endosulfan II | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| 4,4'-DDD | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| Endosulfan sulfate | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| 4,4'-DDT | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| Methoxychlor | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Endrin ketone | 0.11 U | 0.10 U | 0.10 U | 0.094 U | 0.094 U | 230 U |
| alpha-Chlordane | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| gamma-Chlordane | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Toxaphene | 1.1 U | 1.0 U | 1.0 U | 0.94 U | 0.94 U | 2300 U |
| Aroclor-1016 | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Aroclor-1221 | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Aroclor-1232 | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Aroclor-1242 | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 1200 U |
| Aroclor-1248 | 0.56 U | 0.52 U | 0.52 U | 0.47 U | 0.47 U | 4800 |
| Aroclor-1254 | 1.1 U | 1.0 U | 1.0 U | 0.94 U | 0.94 U | 2300 U |
| Aroclor-1260 | 1.1 U | 1.0 U | 1.0 U | 0.94 U | 0.94 U | 3700 |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| Sample Information | Cust ID: | PBLK | PBLK BS | PBLK BSD | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|---|---|
| | RFW#: | 91GP0422-MB1 | 91GP0422-MB1 | 91GP0422-MB1 | 91GP0429-MB1 | 91GP0429-MB1 | 91GP0429-MB1 |
| | Matrix: | WATER | WATER | WATER | DRUM | DRUM | DRUM |
| | D.F.: | 1.00 | 1.00 | 1.00 | 0.500 | 0.500 | 0.500 |
| | Units: | ug/L | ug/L | ug/L | ug/Kg | ug/Kg | ug/Kg |
| Surrogate: Di-n-butylchlorendate | | 127 % fl | 129 % fl | 120 % fl | 120 % fl | 127 % fl | 120 % fl |
| Alpha-BHC | | 0.050 U | 0.050 U | 0.050 U | 120 U | 120 U | 120 U |
| Beta-BHC | | 0.050 U | 0.050 U | 0.050 U | 120 U | 120 U | 120 U |
| Delta-BHC | | 0.050 U | 0.050 U | 0.050 U | 120 U | 120 U | 120 U |
| gamma-BHC (Lindane) | | 0.050 U | 109 % | 109 % | 120 U | 109 % | 109 % |
| Heptachlor | | 0.050 U | 89 % | 89 % | 120 U | 109 % | 109 % |
| Aldrin | | 0.050 U | 70 % | 70 % | 120 U | 90 % | 90 % |
| Heptachlor epoxide | | 0.050 U | 0.050 U | 0.050 U | 120 U | 120 U | 120 U |
| Endosulfan I | | 0.050 U | 0.050 U | 0.050 U | 120 U | 120 U | 120 U |
| Dieldrin | | 0.10 U | 99 % | 99 % | 240 U | 95 % | 95 % |
| 4,4'-DDE | | 0.10 U | 0.10 U | 0.10 U | 240 U | 240 U | 240 U |
| Endrin | | 0.10 U | 112 % | 112 % | 240 U | 78 % | 93 % |
| Endosulfan II | | 0.10 U | 0.10 U | 0.10 U | 240 U | 240 U | 240 U |
| 4,4'-DDD | | 0.10 U | 0.10 U | 0.10 U | 240 U | 240 U | 240 U |
| Endosulfan sulfate | | 0.10 U | 0.10 U | 0.10 U | 240 U | 240 U | 240 U |
| 4,4'-DDT | | 0.10 U | 105 % | 105 % | 240 U | 102 % | 102 % |
| Methoxychlor | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Endrin ketone | | 0.10 U | 0.10 U | 0.10 U | 240 U | 240 U | 240 U |
| alpha-Chlordane | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| gamma-Chlordane | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Toxaphene | | 1.0 U | 1.0 U | 1.0 U | 2400 U | 2400 U | 2400 U |
| Aroclor-1016 | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Aroclor-1221 | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Aroclor-1232 | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Aroclor-1242 | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Aroclor-1248 | | 0.50 U | 0.50 U | 0.50 U | 1200 U | 1200 U | 1200 U |
| Aroclor-1254 | | 1.0 U | 1.0 U | 1.0 U | 2400 U | 2400 U | 2400 U |
| Aroclor-1260 | | 1.0 U | 1.0 U | 1.0 U | 2400 U | 2400 U | 2400 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

F[illegible]stone, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9106G550 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/17/91 11:25 Page: 1

| Sample Information | Cust ID: | LRGW MW01D | LRGW MW01D | LRGW MW01D | LRGW MW02D | LRGW MW01-SDP | LRGW MW01-S |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 001 MS | 001 MSD | 002 | 003 | 004 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate: Di-n-butylchlorendate | | 100 % | 86 % | 65 % | 107 % | 52 % | 64 % |
| | | fl | fl | fl | fl | fl | fl |
| Alpha-BHC | | 0.012 J | 0.020 J | 0.010 J | 0.048 U | 0.049 U | 0.019 J |
| Beta-BHC | | 0.062 U | 0.051 U | 0.048 U | 0.048 U | 0.049 U | 0.049 U |
| Delta-BHC | | 0.062 U | 0.051 U | 0.048 U | 0.048 U | 0.049 U | 0.049 U |
| gamma-BHC (Lindane) | | 0.062 U | 109 % | 109 % | 0.048 U | 0.049 U | 0.049 U |
| Heptachlor | | 0.062 U | 129 % | 79 % | 0.048 U | 0.049 U | 0.049 U |
| Aldrin | | 0.062 U | 90 % | 70 % | 0.048 U | 0.049 U | 0.049 U |
| Heptachlor epoxide | | 0.062 U | 0.051 U | 0.048 U | 0.048 U | 0.049 U | 0.049 U |
| Endosulfan I | | 0.062 U | 0.051 U | 0.048 U | 0.048 U | 0.049 U | 0.049 U |
| Dieldrin | | 0.12 U | 87 % | 75 % | 0.095 U | 0.097 U | 0.097 U |
| 4,4'-DDE | | 0.12 U | 0.10 U | 0.096 U | 0.095 U | 0.097 U | 0.097 U |
| Endrin | | 0.12 U | 101 % | 90 % | 0.095 U | 0.097 U | 0.097 U |
| Endosulfan II | | 0.12 U | 0.10 U | 0.096 U | 0.095 U | 0.097 U | 0.097 U |
| 4,4'-DDD | | 0.12 U | 0.10 U | 0.096 U | 0.095 U | 0.097 U | 0.097 U |
| Endosulfan sulfate | | 0.12 U | 0.10 U | 0.096 U | 0.095 U | 0.097 U | 0.097 U |
| 4,4'-DDT | | 0.12 U | 74 % | 59 % | 0.095 U | 0.097 U | 0.097 U |
| Methoxychlor | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Endrin ketone | | 0.12 U | 0.10 U | 0.096 U | 0.095 U | 0.097 U | 0.097 U |
| alpha-Chlordane | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| gamma-Chlordane | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Toxaphene | | 1.2 U | 1.0 U | 0.96 U | 0.95 U | 0.97 U | 0.97 U |
| Aroclor-1016 | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Aroclor-1221 | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Aroclor-1232 | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Aroclor-1242 | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Aroclor-1248 | | 0.62 U | 0.51 U | 0.48 U | 0.48 U | 0.49 U | 0.49 U |
| Aroclor-1254 | | 1.2 U | 1.0 U | 0.96 U | 0.95 U | 0.28 J | 0.30 J |
| Aroclor-1260 | | 1.2 U | 1.0 U | 0.96 U | 0.95 U | 0.97 U | 0.97 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| | Cust ID: | PBLK | | PBLK BS | | PBLK BSD | |
|---|---|---|---|---|---|---|---|
| Sample Information | RFW#: | 91GP0418-MB1 | | 91GP0418-MB1 | | 91GP0418-MB1 | |
| | Matrix: | WATER | | WATER | | WATER | |
| | D.F.: | 1.00 | | 1.00 | | 1.00 | |
| | Units: | ug/L | | ug/L | | ug/L | |
| Surrogate: Di-n-butylchlorendate | | 137 | % | 132 | % | 125 | % |
| Alpha-BHC | | 0.050 | U | 0.050 | U | 0.050 | U |
| Beta-BHC | | 0.050 | U | 0.050 | U | 0.050 | U |
| Delta-BHC | | 0.050 | U | 0.050 | U | 0.050 | U |
| gamma-BHC (Lindane) | | 0.050 | U | 109 | % | 109 | % |
| Heptachlor | | 0.050 | U | 99 | % | 99 | % |
| Aldrin | | 0.050 | U | 80 | % | 80 | % |
| Heptachlor epoxide | | 0.050 | U | 0.050 | U | 0.050 | U |
| Endosulfan I | | 0.050 | U | 0.050 | U | 0.050 | U |
| Dieldrin | | 0.10 | U | 99 | % | 95 | % |
| 4,4'-DDE | | 0.10 | U | 0.10 | U | 0.10 | U |
| Endrin | | 0.10 | U | 86 | % | 90 | % |
| Endosulfan II | | 0.10 | U | 0.10 | U | 0.10 | U |
| 4,4'-DDD | | 0.10 | U | 0.10 | U | 0.10 | U |
| Endosulfan sulfate | | 0.10 | U | 0.10 | U | 0.10 | U |
| 4,4'-DDT | | 0.10 | U | 105 | % | 94 | % |
| Methoxychlor | | 0.50 | U | 0.50 | U | 0.50 | U |
| Endrin ketone | | 0.10 | U | 0.10 | U | 0.10 | U |
| alpha-Chlordane | | 0.50 | U | 0.50 | U | 0.50 | U |
| gamma-Chlordane | | 0.50 | U | 0.50 | U | 0.50 | U |
| Toxaphene | | 1.0 | U | 1.0 | U | 1.0 | U |
| Aroclor-1016 | | 0.50 | U | 0.50 | U | 0.50 | U |
| Aroclor-1221 | | 0.50 | U | 0.50 | U | 0.50 | U |
| Aroclor-1232 | | 0.50 | U | 0.50 | U | 0.50 | U |
| Aroclor-1242 | | 0.50 | U | 0.50 | U | 0.50 | U |
| Aroclor-1248 | | 0.50 | U | 0.50 | U | 0.50 | U |
| Aroclor-1254 | | 1.0 | U | 1.0 | U | 1.0 | U |
| Aroclor-1260 | | 1.0 | U | 1.0 | U | 1.0 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| |

Client
Work Order
Date Rec'd. ____ Date Due ____
RFW Contact
Client Contact/Phone

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | |
| #/Type Container | | | | | | | | | | |
| Volume | | | | | | | | | | |
| Preservative | | | | | | | | | | |
| ANALYSES REQUESTED | | | | | | | | | | |
| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | |
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Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions:

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
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**WESTON Analytics Use Only**

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/ Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 9106G550 |

Client GM
Work Order 1138-58-02
Date Rec'd. _____ Date Due _____
RFW Contact BABU
Client Contact/Phone _____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 1/G | 1/P | 1P | | | | | | |
| | | | | Volume | 8oz | LITER | LITER | | | | | | |
| | | | | Preservative | — | NaOH | $HNO_3$ | | | | | | |
| | | | | ANALYSES REQUESTED | BNA PEST PCB | CN | TKL METALS | | | | | | |
| | LRGW MW01 D-MS/MSD | W | 5-31-91 | | X | | | | | | | | |
| | LRGW MW01 D-MS/MSD | W | 5-31-91 | | X | | | | | | | | |
| | LRGW MW01 D-MS/MSD | W | 5-31-91 | | X | X | X | | | | | | |
| | LRGW MW02D | W | 5-31-91 | | X | | | | | | | | |
| | LRGW MW01-SDP | W | 5-31-91 | | | | | | | | | | |
| | LRGW MW01-S | | | | | | | | | | | | |
| | ~~LR SW MW0~~ | | | | | | | | | | | | |
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Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: SERL # 0011702

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | MSULLIVAN | | | 0908 |
| | | | | |
| | | | | |
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| Item/Reason | Relinquished by | Received by | Date | Time |
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES: Fed X

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES: MW01D MW01 in the cooler but not

RFW 21-21-001/A-12/88

Metals bottles marked filtered

MW01 SDP & MW01 RINSATE

7-115

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 91D6G55D |

Client GM
Work Order 1138-58-02
Date Rec'd. _____ Date Due _____
RFW Contact BABU
Client Contact/Phone _____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator# | | | | | | | | | | | | | |
| #/Type Container | | | | 1/P | VP | 2/G | | | | | | | |
| Volume | | | | LITER | LITER | 40ml | | | | | | | |
| Preservative | | | | None | HNO3 | HCl | | | | | | | |
| ANALYSES REQUESTED → | | | | CN | METALS | VOA | | | | | | | |
| | LR-GW-MW01-S | W | 5-31-91 | X | | X | | | | | | | |
| | LR GW- MW01-S | W | 5-31-91 | | X | X | | | | | | | |
| | LR-GW- MW01 - SDP | W | 5-31-91 | X | | | | | | | | | |
| | LR GW MW01-D MS/MSD | W | 5-31-91 | X | X | X | | | | | | | |
| | LR GW MW01-SDP | W | 5-31-91 | | X | | | | | | | | |
| | LRGW MW01-D | W | 5-31-91 | X | X | X | | | | | | | |
| | LRGW MW01 D MS/MSD | W | 5-31-91 | X | X | X | | | | | | | |
| | LRGW MW02 D | W | 531-91 | | | X | | | | | | | |
| | LR TB02.0005 | W | 5-31-91 | | | X | | | | | | | |
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Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions: SEDL 001726

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | | Whitehurst | 6/3/91 | 0930 | | | | | |
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES: FedX

2 Ambient or Chilled
NOTES:

3 Received Broken/ Leaking (Improperly Sealed)
(Y) N
NOTES: MW01-D - 3 vials; 1 vial

4 Properly Preserved
(Y) N
NOTES: MW02-1 MW01-D TB02

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) N
NOTES: MW01-S - only 1 set of VOA vials rec'd.

MW01-SDP - 7-115 - 2 VOA vials - not noted on COC; noted on bottles. Hand-delivered

RFW.21-21-001/A-12/88

LABORATORY DATA SUMMARIES FOR
INORGANIC COMPOUND ANALYSES ARE
AVAILABLE FROM ROY F. WESTON, INC., AND
WILL BE SUBMITTED ON REQUEST

# APPENDIX G.3.4

## GROUNDWATER SAMPLES - ROUND 2
## (SEPTEMBER 1991)

WESTON® MANAGERS DESIGNERS/CONSULTANTS

SHEET____ of ____

CLIENT/SUBJECT _____ W.O. NO._____

TASK DESCRIPTION _____ TASK NO._____

PREPARED BY _____ DEPT_____ DATE_____

MATH CHECK BY_____ DEPT_____ DATE_____

METHOD REV. BY _____ DEPT_____ DATE_____

APPROVED BY

DEPT _____ DATE_____

RFW # 9109670

VOA HOLD TIME ACCEPTABLE
SURROGATES ACCEPTABLE EXCEPT FOR GM-GW-MW02D02 MS
SAMPLE RESULTS FLAGGED J
MS/MSD - 1 RPD OUTSIDE QC LIMITS
2 SPIKE RECOVERIES OUTSIDE QC LIMITS
NO ASSOCIATED FLAGS

BLANKS
METHOD BLANK 916VB332-MB1 APPLICABLE TO TRIP BLANK + MB1 BS CONTAINED METHYLENE CHLORIDE AND ACETONE
METHOD BLANK 916VB330-MB1 APPLICABLE TO MW05-FB, MW01S-02, MW01D-02, MW01D-02-DP AND VBLKGB330-MB1 BS CONTAINED METHYLENE CHLORIDE AND ACETONE
METHOD BLANK 916VB331-MB1 APPLICABLE TO MW01S-02DL, 02D-02, 02D-02MS, 02D-02MSD, 02S-02, 03S-02, 03D-02, VBLKGB331-MB1-B CONTAINED METHYLENE CHLORIDE AND ACETONE
METHOD BLANK 916VC300-MB1 APPLICABLE TO VBLKGC300-MB1 BS, P201-01, P202-01, MW04S-02 CONTAINED METHYLENE CHLORIDE + ACETONE
THE TRIP BLANK CONTAINED METHYLENE CHLORIDE AND ACETONE
ALL SAMPLES ARE FLAGGED B FOR METHYLENE CHLORIDE AND ACETONE

GC/MS TUNING
APPLICABLE TO VBLKGVB330-MB1, MW01S-FB, MW01S-02, MW01D-02, MW01D-02-DP, VBLKGVB330-MB1 BS IS ACCEPTABLE.
INITIAL CALIBRATION %RSD > 30 FOR CARBON DISULFIDE, METHYLENE CHLORIDE AND ACETONE
CONTINUING CALIBRATION %D > 25 FOR CHLOROETHANE, 2-BUTANONE, VINYL ACETATE, 2 HEXANONE, 4 METHYL 2 PENTANONE.
POSITIVE RESULTS FLAGGED J

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____

DEPT _____ DATE _____

GC/MS TUNING - CONTINUED

APPLICABLE TO VBLKGVB331-MB1, BS, MW015-02 DL, MW02D-02, MW02D-02 MS, MSD, MW025-02, MW035-02, MW03D-02 IS ACCEPTABLE
INITIAL CALIBRATION %RSD > 30 FOR METHYLENE CHLORIDE
CONTINUING CALIBRATION %D > 25 FOR NO COMPOUND
POSITIVE RESULTS FLAGGED J

APPLICABLE TO VBLKGVC300-MB1, BS, PZ01-01, PZ02-01, MW04S-02 IS ACCEPTABLE
INITIAL CALIBRATION %RSD > 30 FOR METHYLENE CHLORIDE
CONTINUING CALIBRATION %D > 25 FOR NO COMPOUND
POSITIVE RESULTS FLAGGED J

APPLICABLE TO VBLKGVB332-MB1, BS & TRIP BLANK IS ACCEPTABLE
INITIAL CALIBRATION %RSD > 30 FOR ACETONE
CONTINUING CALIBRATION %D 0725 FOR ACETONE, 2-BUTANONE, & 2-HEXANONE.
POSITIVE RESULTS FLAGGED J

INTERNAL STANDARD AREAS OUTSIDE QC LIMITS FOR MW01S-02, MW02D-02, MS, MW03D-02, VBLKGVB331-MB1, BS.
RESULTS FLAGGED J

BNA

HOLD TIMES ARE ACCEPTABLE
SURROGATES ACCEPTABLE
BS/BSD - RPD ACCEPTABLE
SPIKE RECOVERY ACCEPTABLE
GC/MS TUNING APPLICABLE TO MW04S-02 IS ACCEPTABLE
INITIAL CALIBRATION IS ACCEPTABLE
CONTINUING CALIBRATION %D > 25 FOR 2,4 DINITROPHENOL
POSITIVE RESULTS FLAGGED J
INTERNAL AREA OUTSIDE QC FOR MW04S-02 - DATA FLAGGED J



STANDARD

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY

DEPT _____ DATE _____

PEST/PCB

HOLD TIMES ACCEPTABLE
BLANK IS ACCEPTABLE
SURROGATE IS ACCEPTABLE
STANDARDS ACCEPTABLE
11 OF 12 SPIKES MET QC LIMITS - NO FLAG ASSOCIATED WITH DATA

---

RFW # 9109670

METALS

LIMITED QA/QC AVAILABLE
HOLD TIMES ACCEPTABLE
BLANK IS ACCEPTABLE
SPIKE WAS OUT OF QC RANGE FOR
SILVER, LEAD, SELENIUM AND THALLIUM
DATA FOR SILVER, SELENIUM + THALLIUM ARE
FLAGGED J.

| Sample Information | Cust ID: | Trip Blank | GM-GW-MW01S-FB | GM-GW-MW01S-02 | GM-GW-MW01S-02 | GM-GW-MW01D-02 | GM-GW-MW01D-02-DP |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 003 DL | 004 | 005 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 95 % | 97 % | 94 % | 96 % | 100 % | 100 % |
| | Bromofluorobenzene | 100 % | 102 % | 107 % | 98 % | 102 % | 101 % |
| | 1,2-Dichloroethane-d4 | 97 % | 94 % | 102 % | 94 % | 94 % | 92 % |
| Chloromethane | | 10 U | 10 U | 10 UJ | NA | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| Methylene Chloride | | 9 B | 7 JB | 10 B | NA | 7 JB | 8 JB |
| Acetone | | 10 JB | 15 JB | 17 B | NA | 6 JB | 7 JB |
| Carbon Disulfide | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 61 | NA | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Trichloroethene | | 5 U | 5 U | E | 320 | 5 U | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Benzene | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | NA | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | NA | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| | Cust ID: Trip Blank | GM-GW-MW01S-FB | GM-GW-MW01S-02 | GM-GW-MW01S-02 | GM-GW-MW01D-02 | GM-GW-MW01D-02-DP |
|---|---|---|---|---|---|---|
| | RFW#: 001 | 002 | 003 | 003 DL | 004 | 005 |
| Toluene | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Chlorobenzene | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Ethylbenzene | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | NA | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | NA | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02S-02 | GM-GW-MW03S-02 | GM-GW-MW03D-02 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 006 | 006 MS | 006 MSD | 007 | 008 | 009 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 90 % | 84 * % | 95 % | 95 % | 95 % | 92 % |
| | Bromofluorobenzene | 102 % | 105 % | 101 % | 99 % | 100 % | 101 % |
| | 1,2-Dichloroethane-d4 | 98 % | 106 % | 96 % | 95 % | 99 % | 98 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 11 B | 39 B | 10 B | 9 JB | 9 JB | 13 B |
| Acetone | | 12 B | 29 B | 10 B | 9 JB | 24 B | 13 B |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 52 * % | 66 % | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 14 | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 77 % | 80 % | 5 U | 5 U | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 87 % | 85 % | 5 U | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02S-02 | GM-GW-MW03S-02 | GM-GW-MW03D-02 |
|---|---|---|---|---|---|---|
| RFW#: | 006 | 006 MS | 006 MSD | 007 | 008 | 009 |
| Toluene | 5 U J | 75 * % | 83 % | 5 U | 5 U | 5 U J |
| Chlorobenzene | 5 U | 92 % | 92 % | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 U | 5 U J | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | GM-GW-PZ01-01 | GM-GW-PZ02-01 | GM-GW-MW04S-02 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 010 | 011 | 012 | 91GVB332-MB1 | 91GVB332-MB1 | 91GVB330-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 97 % | 99 % | 96 % | 94 % | 99 % | 98 % |
| | Bromofluorobenzene | 96 % | 95 % | 96 % | 97 % | 98 % | 103 % |
| | 1,2-Dichloroethane-d4 | 98 % | 100 % | 99 % | 97 % | 98 % | 97 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 12 JB | 14 JB | 15 JB | 7 | 14 B | 9 |
| Acetone | | 14 B | 12 B | 11 B | 17 | 6 JB | 21 |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 5 U | 5 U | 5 U | 67 % | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 20 | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 9 | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 1 J | 2 J | 1 J | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 190 | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 3 J | 5 U | 5 U | 5 U | 76 % | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 6 | 5 U | 5 U | 82 % | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 73 | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | GM-GW-PZ01-01 | GM-GW-PZ02-01 | GM-GW-MW04S-02 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|
| RFW#: | 010 | 011 | 012 | 91GVB332-MB1 | 91GVB332-MB1 | 91GVB330-MB1 |
| Toluene | 2 J | 10 | 2 J | 5 U | 81 % | 5 U |
| Chlorobenzene | 5 U | 3 J | 5 U | 5 U | 84 % | 5 U |
| Ethylbenzene | 5 U | 68 | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 310 | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|---|
| | RFW#: | 91GVB330-MB1 | 91GVB331-MB1 | 91GVB331-MB1 | 91GVC300-MB1 | 91GVC300-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 99 % | 94 % | 94 % | 97 % | 97 % |
| | Bromofluorobenzene | 101 % | 100 % | 101 % | 96 % | 98 % |
| | 1,2-Dichloroethane-d4 | 92 % | 97 % | 101 % | 101 % | 100 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 10 B | 15 | 19 B | 16 | 23 B |
| Acetone | | 16 B | 18 | 25 B | 13 | 89 B |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 111 % | 5 U | 65 % | 5 U | 72 % |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 91 % | 5 U | 75 % | 5 U | 91 % |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 99 % | 5 U | 83 % | 5 U | 98 % |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | VBLK BS | VBLK | VBLK BS | VBLK | VBLK BS |
|---|---|---|---|---|---|
| RFW#: | 91GVB330-MB1 | 91GVB331-MB1 | 91GVB331-MB1 | 91GVC300-MB1 | 91GVC300-MB1 |
| Toluene | 87 % | 5 U | 80 % | 5 U | 92 % |
| Chlorobenzene | 96 % | 5 U | 89 % | 5 U | 95 % |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 12 |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | GM-GW-MW04S-02 | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|---|---|
| | RFW#: | 012 | 91GB0420-MB1 | 91GB0420-MB1 | 91GB0420-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | UG/L | UG/L | UG/L | UG/L |
| Surrogate Recovery | Nitrobenzene-d5 | 76 % | 68 % | 64 % | 68 % |
| | 2-Fluorobiphenyl | 79 % | 74 % | 68 % | 69 % |
| | Terphenyl-d14 | 119 % | 91 % | 81 % | 80 % |
| | Phenol-d5 | 22 % | 36 % | 30 % | 29 % |
| | 2-Fluorophenol | 25 % | 41 % | 38 % | 35 % |
| | 2,4,6-Br3-phenol | 62 % | 69 % | 73 % | 74 % |
| Phenol | | 10 U | 10 U | 29 % | 28 % |
| bis(2-Chloroethyl)ether | | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | | 10 U | 10 U | 70 % | 70 % |
| 1,3-Dichlorobenzene | | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | | 10 U | 10 U | 47 % | 50 % |
| Benzyl alcohol | | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl)ether | | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-Di-n-propylamine | | 10 U | 10 U | 63 % | 64 % |
| Hexachloroethane | | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | | 10 U | 10 U | 10 U | 10 U |
| Isophorone | | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | | 10 U | 10 U | 10 U | 10 U |
| Benzoic acid | | 48 U | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | | 10 U | 10 U | 52 % | 56 % |
| Naphthalene | | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline | | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | | 10 U | 10 U | 64 % | 61 % |
| 2-Methylnaphthalene | | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | | 10 U | 10 U | 10 U | 10 U |

*= Outside of EPA CLP QC limits.

| | Cust ID: GM-GW-MW04S-02 | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|---|
| | RFW#: 012 | 91GB042O-MB1 | 91GB042O-MB1 | 91GB042O-MB1 |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 48 U | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 48 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline | 48 U | 50 U | 50 U | 50 U |
| Acenaphthene | 10 U | 10 U | 68 % | 68 % |
| 2,4-Dinitrophenol | 48 U | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 48 U | 50 U | 24 % | 22 % |
| Dibenzofuran | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 U | 10 U | 69 % | 70 % |
| Diethylphthalate | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-phenylether | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 48 U | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-methylphenol | 48 U | 50 U | 50 U | 50 U |
| N-Nitrosodiphenylamine (1) | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-phenylether | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 48 U | 50 U | 77 % | 79 % |
| Phenanthrene | 10 U | 10 U | 10 U | 10 U |
| Anthracene | 10 U | 10 U | 10 U | 10 U |
| Di-n-Butylphthalate | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 10 U | 10 U | 10 U | 10 U |
| Pyrene | 10 U | 10 U | 73 % | 72 % |
| Butylbenzylphthalate | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 19 U | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 10 U | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 10 U | 10 U |
| Di-n-Octyl phthalate | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U | 10 U |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 10 U | 10 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | GM-GW-MW01S-02 | GM-GW-MW01D-02 | GM-GW-MW01D-02-DP | GM-GW-MW02D-02 | GM-GW-MW02D-02 004 MS | GM-GW-MW02D-02 004 MSD |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 004 MS | 004 MSD |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | UG/L REPREP | UG/L | UG/L | UG/L | UG/L | UG/L |
| Surrogate Recovery | Nitrobenzene-d5 | 65 % | 73 % | 75 % | 73 % | 99 % | 87 % |
| | 2-Fluorobiphenyl | 72 % | 78 % | 85 % | 79 % | 97 % | 94 % |
| | Terphenyl-d14 | 80 % | 83 % | 85 % | 84 % | 97 % | 90 % |
| | Phenol-d5 | 10 % | 28 % | 35 % | 31 % | 45 % | 44 % |
| | 2-Fluorophenol | 11 * % | 31 % | 34 % | 30 % | 52 % | 48 % |
| | 2,4,6-Br3-phenol | 50 % | 66 % | 69 % | 60 % | 83 % | 79 % |
| Phenol | | 15 U | 9 U | 13 U | 11 U | 39 % | 39 % |
| bis(2-Chloroethyl)ether | | 2 J | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2-Chlorophenol | | 15 U | 9 U | 13 U | 11 U | 77 % | 73 % |
| 1,3-Dichlorobenzene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 1,4-Dichlorobenzene | | 15 U | 9 U | 13 U | 11 U | 66 % | 64 % |
| Benzyl alcohol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 1,2-Dichlorobenzene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2-Methylphenol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| bis(2-Chloroisopropyl)ether | | 30 | 9 U | 13 U | 11 U | 12 U | 12 U |
| 4-Methylphenol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| N-Nitroso-Di-n-propylamine | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Hexachloroethane | | 15 U | 9 U | 13 U | 11 U | 79 % | 75 % |
| Nitrobenzene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Isophorone | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2-Nitrophenol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2,4-Dimethylphenol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Benzoic acid | | 74 U | 46 U | 65 U | 57 U | 58 U | 62 U |
| bis(2-Chloroethoxy)methane | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2,4-Dichlorophenol | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 1,2,4-Trichlorobenzene | | 15 U | 9 U | 13 U | 11 U | 73 % | 72 % |
| Naphthalene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 4-Chloroaniline | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Hexachlorobutadiene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 4-Chloro-3-methylphenol | | 15 U | 9 U | 13 U | 11 U | 72 % | 72 % |
| 2-Methylnaphthalene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Hexachlorocyclopentadiene | | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | GM-GW-MW01S-02 | GM-GW-MW01D-02 | GM-GW-MW01D-02-DP | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02D-02 |
|---|---|---|---|---|---|---|
| RFW#: | 001 REPREP | 002 | 003 | 004 | 004 MS | 004 MSD |
| 2,4,6-Trichlorophenol | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2,4,5-Trichlorophenol | 74 U | 46 U | 65 U | 57 U | 58 U | 62 U |
| 2-Chloronaphthalene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2-Nitroaniline | 74 U | 46 U | 65 U | 57 U | 58 U | 62 U |
| Dimethylphthalate | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Acenaphthylene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 2,6-Dinitrotoluene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 3-Nitroaniline | 74 U | 46 U | 65 U | 57 U | 12 U | 12 U |
| Acenaphthene | 15 U | 9 U | 13 U | 11 U | 58 U | 62 U |
| 2,4-Dinitrophenol | 74 U | 46 U | 65 U | 57 U | 93 % | 88 % |
| 4-Nitrophenol | 74 U | 46 U | 65 U | 57 U | 58 U | 62 U |
| Dibenzofuran | 15 U | 9 U | 13 U | 11 U | 28 % | 27 % |
| 2,4-Dinitrotoluene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Diethylphthalate | 15 U | 9 U | 13 U | 11 U | 78 % | 72 % |
| 4-Chlorophenyl-phenylether | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Fluorene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| 4-Nitroaniline | 74 U | 46 U | 65 U | 57 U | 12 U | 12 U |
| 4,6-Dinitro-2-methylphenol | 74 U | 46 U | 65 U | 57 U | 58 U | 62 U |
| N-Nitrosodiphenylamine (1) | 15 U | 9 U | 13 U | 11 U | 58 U | 62 U |
| 4-Bromophenyl-phenylether | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Hexachlorobenzene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Pentachlorophenol | 74 U | 46 U | 65 U | 57 U | 12 U | 12 U |
| Phenanthrene | 15 U | 9 U | 13 U | 11 U | 74 % | 78 % |
| Anthracene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Di-n-Butylphthalate | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Fluoranthene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Pyrene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Butylbenzylphthalate | 15 U | 9 U | 13 U | 11 U | 86 % | 80 % |
| 3,3'-Dichlorobenzidine | 30 U | 19 U | 26 U | 23 U | 12 U | 12 U |
| Benzo(a)anthracene | 15 U | 9 U | 13 U | 11 U | 23 U | 25 U |
| Chrysene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| bis(2-Ethylhexyl)phthalate | 2 J | 9 U | 13 U | 11 U | 12 U | 12 U |
| Di-n-Octyl phthalate | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Benzo(b)fluoranthene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Benzo(k)fluoranthene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Benzo(a)pyrene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Indeno(1,2,3-cd)pyrene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Dibenzo(a,h)anthracene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |
| Benzo(g,h,i)perylene | 15 U | 9 U | 13 U | 11 U | 12 U | 12 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | GM-GW-MW01S-FB | SBLK | SBLK BS | SBLK BSD | SBLK | SBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 005 | 91GB0431-MB1 | 91GB0431-MB1 | 91GB0431-MB1 | 91GB0419-MB1 | 91GB0419-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| Surrogate Recovery | Nitrobenzene-d5 | 78 % | 63 % | 73 % | 85 % | 65 % | 73 % |
| | 2-Fluorobiphenyl | 87 % | 61 % | 71 % | 77 % | 60 % | 66 % |
| | Terphenyl-d14 | 91 % | 72 % | 85 % | 82 % | 84 % | 88 % |
| | Phenol-d5 | 36 % | 27 % | 54 % | 40 % | 31 % | 34 % |
| | 2-Fluorophenol | 41 % | 27 % | 51 % | 47 % | 39 % | 41 % |
| | 2,4,6-Br3-phenol | 72 % | 47 % | 65 % | 83 % | 70 % | 78 % |
| Phenol | | 11 U | 10 U | 43 % | 34 % | 10 U | 26 % |
| bis(2-Chloroethyl)ether | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | | 11 U | 10 U | 64 % | 77 % | 10 U | 61 % |
| 1,3-Dichlorobenzene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | | 11 U | 10 U | 56 % | 51 % | 10 U | 50 % |
| Benzyl alcohol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Methylphenol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl)ether | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-Di-n-propylamine | | 11 U | 10 U | 70 % | 73 % | 10 U | 69 % |
| Hexachloroethane | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Nitrobenzene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Isophorone | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitrophenol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzoic acid | | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | | 11 U | 10 U | 59 % | 55 % | 10 U | 55 % |
| Naphthalene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | | 11 U | 10 U | 59 % | 71 % | 10 U | 59 % |
| 2-Methylnaphthalene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | GM-GW-MW01S-FB | SBLK | SBLK BS | SBLK BSD | SBLK | SBLK BS |
|---|---|---|---|---|---|---|
| RFW#: | 005 | 91GB0431-MB1 | 91GB0431-MB1 | 91GB0431-MB1 | 91GB0419-MB1 | 91GB0419-MB1 |
| 2,4,6-Trichlorophenol | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| Dimethylphthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acenaphthylene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| Acenaphthene | 11 U | 10 U | 58 % | 74 % | 10 U | 72 % |
| 2,4-Dinitrophenol | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 54 U | 50 U | 34 % | 30 % | 50 U | 19 % |
| Dibenzofuran | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 11 U | 10 U | 63 % | 82 % | 10 U | 68 % |
| Diethylphthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-phenylether | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluorene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-methylphenol | 54 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| N-Nitrosodiphenylamine (1) | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Bromophenyl-phenylether | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 54 U | 50 U | 82 % | 96 % | 50 U | 67 % |
| Phenanthrene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Anthracene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Di-n-Butylphthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Pyrene | 11 U | 10 U | 76 % | 74 % | 10 U | 78 % |
| Butylbenzylphthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 22 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chrysene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Di-n-Octyl phthalate | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Dibenzo(a,h)anthracene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: SBLK BSD

Sample Information

RFW#: 91GB0419-MB1
Matrix: WATER
D.F.: 1.00
Units: UG/L

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | 66 | % |
| | 2-Fluorobiphenyl | 56 | % |
| | Terphenyl-d14 | 91 | % |
| | Phenol-d5 | 22 | % |
| | 2-Fluorophenol | 28 | % |
| | 2,4,6-Br3-phenol | 74 | % |

| | | |
|---|---|---|
| Phenol | 20 | % |
| bis(2-Chloroethyl)ether | 10 | U |
| 2-Chlorophenol | 57 | % |
| 1,3-Dichlorobenzene | 10 | U |
| 1,4-Dichlorobenzene | 46 | % |
| Benzyl alcohol | 10 | U |
| 1,2-Dichlorobenzene | 10 | U |
| 2-Methylphenol | 10 | U |
| bis(2-Chloroisopropyl)ether | 10 | U |
| 4-Methylphenol | 10 | U |
| N-Nitroso-Di-n-propylamine | 65 | % |
| Hexachloroethane | 10 | U |
| Nitrobenzene | 10 | U |
| Isophorone | 10 | U |
| 2-Nitrophenol | 10 | U |
| 2,4-Dimethylphenol | 10 | U |
| Benzoic acid | 50 | U |
| bis(2-Chloroethoxy)methane | 10 | U |
| 2,4-Dichlorophenol | 10 | U |
| 1,2,4-Trichlorobenzene | 53 | % |
| Naphthalene | 10 | U |
| 4-Chloroaniline | 10 | U |
| Hexachlorobutadiene | 10 | U |
| 4-Chloro-3-methylphenol | 60 | % |
| 2-Methylnaphthalene | 10 | U |
| Hexachlorocyclopentadiene | 10 | U |

*= Outside of EPA CLP QC limits.

Cust ID: SBLK BSD

RFW#: 91GB0419-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 10 | U |
| 2,4,5-Trichlorophenol | 50 | U |
| 2-Chloronaphthalene | 10 | U |
| 2-Nitroaniline | 50 | U |
| Dimethylphthalate | 10 | U |
| Acenaphthylene | 10 | U |
| 2,6-Dinitrotoluene | 10 | U |
| 3-Nitroaniline | 50 | U |
| Acenaphthene | 71 | % |
| 2,4-Dinitrophenol | 50 | U |
| 4-Nitrophenol | 10 | % |
| Dibenzofuran | 10 | U |
| 2,4-Dinitrotoluene | 69 | % |
| Diethylphthalate | 10 | U |
| 4-Chlorophenyl-phenylether | 10 | U |
| Fluorene | 10 | U |
| 4-Nitroaniline | 50 | U |
| 4,6-Dinitro-2-methylphenol | 50 | U |
| N-Nitrosodiphenylamine (1) | 10 | U |
| 4-Bromophenyl-phenylether | 10 | U |
| Hexachlorobenzene | 10 | U |
| Pentachlorophenol | 56 | % |
| Phenanthrene | 10 | U |
| Anthracene | 10 | U |
| Di-n-Butylphthalate | 10 | U |
| Fluoranthene | 10 | U |
| Pyrene | 80 | % |
| Butylbenzylphthalate | 10 | U |
| 3,3'-Dichlorobenzidine | 20 | U |
| Benzo(a)anthracene | 10 | U |
| Chrysene | 10 | U |
| bis(2-Ethylhexyl)phthalate | 10 | U |
| Di-n-Octyl phthalate | 10 | U |
| Benzo(b)fluoranthene | 10 | U |
| Benzo(k)fluoranthene | 10 | U |
| Benzo(a)pyrene | 10 | U |
| Indeno(1,2,3-cd)pyrene | 10 | U |
| Dibenzo(a,h)anthracene | 10 | U |
| Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

F. to.., .nc. ulf st rai s

RFW Batch Number: 9109G557 Client: GMAC SEMIVOLATILES BY GC/MS, HSL LIST Report Date: 10/02/91 15:19

Work Order: 1138-58-02-0000 Page: 1a

| Sample Information | Cust ID: | GM-GW-MW02S-02 | GM-GW-MW03S-02 | GM-GW-MW03D-02 | GM-GW-PZ02-01 | SBLK | SBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 91GB0420-MB1 | 91GB0420-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| Surrogate Recovery | Nitrobenzene-d5 | 78 % | 82 % | 90 % | 78 % | 68 % | 64 % |
| | 2-Fluorobiphenyl | 80 % | 93 % | 91 % | 83 % | 74 % | 68 % |
| | Terphenyl-d14 | 52 % | 62 % | 95 % | 111 % | 91 % | 81 % |
| | Phenol-d5 | 41 % | 40 % | 39 % | 44 % | 36 % | 30 % |
| | 2-Fluorophenol | 44 % | 45 % | 38 % | 44 % | 41 % | 38 % |
| | 2,4,6-Br3-phenol | 72 % | 74 % | 68 % | 72 % | 69 % | 73 % |
| Phenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 29 % |
| bis(2-Chloroethyl)ether | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 2-Chlorophenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 70 % |
| 1,3-Dichlorobenzene | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | | 12 U | 10 U | 11 U | 13 U | 10 U | 47 % |
| Benzyl alcohol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | | 12 U | 10 U | 11 U | 3 J | 10 U | 10 U |
| 2-Methylphenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| bis(2-Chloroisopropyl)ether | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 4-Methylphenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| N-Nitroso-Di-n-propylamine | | 12 U | 10 U | 11 U | 13 U | 10 U | 63 % |
| Hexachloroethane | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| Nitrobenzene | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| Isophorone | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 2-Nitrophenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 2,4-Dimethylphenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| Benzoic acid | | 60 U | 50 U | 56 U | 66 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 2,4-Dichlorophenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | | 12 U | 10 U | 11 U | 13 U | 10 U | 52 % |
| Naphthalene | | 12 U | 10 U | 11 U | 18 | 10 U | 10 U |
| 4-Chloroaniline | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| Hexachlorobutadiene | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | | 12 U | 10 U | 11 U | 13 U | 10 U | 64 % |
| 2-Methylnaphthalene | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | | 12 U | 10 U | 11 U | 13 U | 10 U | 10 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | GM-GW-MW02S-02 | | GM-GW-MW03S-02 | | GM-GW-MW03D-02 | | GM-GW-PZ02-01 | | SBLK | | SBLK BS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RFW#: | 001 | | 002 | | 003 | | 004 | | 91GB0420-MB1 | | 91GB0420-MB1 | |
| 2,4,6-Trichlorophenol | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 2,4,5-Trichlorophenol | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| 2-Chloronaphthalene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 2-Nitroaniline | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| Dimethylphthalate | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Acenaphthylene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 2,6-Dinitrotoluene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 3-Nitroaniline | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| Acenaphthene | 12 | U | 10 | U | 11 | U | 4 | J | 10 | U | 68 | % |
| 2,4-Dinitrophenol | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| 4-Nitrophenol | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 24 | % |
| Dibenzofuran | 12 | U | 10 | U | 11 | U | 2 | J | 10 | U | 10 | U |
| 2,4-Dinitrotoluene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 69 | % |
| Diethylphthalate | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 4-Chlorophenyl-phenylether | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Fluorene | 12 | U | 10 | U | 11 | U | 2 | J | 10 | U | 10 | U |
| 4-Nitroaniline | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| 4,6-Dinitro-2-methylphenol | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 50 | U |
| N-Nitrosodiphenylamine (1) | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 4-Bromophenyl-phenylether | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Hexachlorobenzene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Pentachlorophenol | 60 | U | 50 | U | 56 | U | 66 | U | 50 | U | 77 | % |
| Phenanthrene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Anthracene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Di-n-Butylphthalate | 3 | J | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Fluoranthene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Pyrene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 73 | % |
| Butylbenzylphthalate | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| 3,3'-Dichlorobenzidine | 24 | U | 20 | U | 22 | U | 26 | U | 20 | U | 20 | U |
| Benzo(a)anthracene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Chrysene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| bis(2-Ethylhexyl)phthalate | 9 | J | 2 | J | 11 | U | 2 | J | 10 | U | 10 | U |
| Di-n-Octyl phthalate | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Benzo(b)fluoranthene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Benzo(k)fluoranthene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Benzo(a)pyrene | 12 | U | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Indeno(1,2,3-cd)pyrene | 2 | J | 10 | U | 11 | U | 13 | U | 10 | U | 10 | U |
| Dibenzo(a,h)anthracene | 12 | U | 1 | J | 11 | U | 13 | U | 10 | U | 10 | U |
| Benzo(g,h,i)perylene | 2 | J | 2 | J | 11 | U | 13 | U | 10 | U | 10 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Cust ID: SBLK BSD

Sample Information

RFW#: 91GB0420-MB1
Matrix: WATER
D.F.: 1.00
Units: UG/L

| | | | |
|---|---|---|---|
| Surrogate Recovery | Nitrobenzene-d5 | 68 | % |
| | 2-Fluorobiphenyl | 69 | % |
| | Terphenyl-d14 | 80 | % |
| | Phenol-d5 | 29 | % |
| | 2-Fluorophenol | 35 | % |
| | 2,4,6-Br3-phenol | 74 | % |

| | | | |
|---|---|---|---|
| Phenol | | 28 | % |
| bis(2-Chloroethyl)ether | | 10 | U |
| 2-Chlorophenol | | 70 | % |
| 1,3-Dichlorobenzene | | 10 | U |
| 1,4-Dichlorobenzene | | 50 | % |
| Benzyl alcohol | | 10 | U |
| 1,2-Dichlorobenzene | | 10 | U |
| 2-Methylphenol | | 10 | U |
| bis(2-Chloroisopropyl)ether | | 10 | U |
| 4-Methylphenol | | 10 | U |
| N-Nitroso-Di-n-propylamine | | 64 | % |
| Hexachloroethane | | 10 | U |
| Nitrobenzene | | 10 | U |
| Isophorone | | 10 | U |
| 2-Nitrophenol | | 10 | U |
| 2,4-Dimethylphenol | | 10 | U |
| Benzoic acid | | 50 | U |
| bis(2-Chloroethoxy)methane | | 10 | U |
| 2,4-Dichlorophenol | | 10 | U |
| 1,2,4-Trichlorobenzene | | 56 | % |
| Naphthalene | | 10 | U |
| 4-Chloroaniline | | 10 | U |
| Hexachlorobutadiene | | 10 | U |
| 4-Chloro-3-methylphenol | | 61 | % |
| 2-Methylnaphthalene | | 10 | U |
| Hexachlorocyclopentadiene | | 10 | U |

*= Outside of EPA CLP QC limits.

RFW#: 91GB0420-MB1

| | | |
|---|---|---|
| 2,4,6-Trichlorophenol | 10 | U |
| 2,4,5-Trichlorophenol | 50 | U |
| 2-Chloronaphthalene | 10 | U |
| 2-Nitroaniline | 50 | U |
| Dimethylphthalate | 10 | U |
| Acenaphthylene | 10 | U |
| 2,6-Dinitrotoluene | 10 | U |
| 3-Nitroaniline | 50 | U |
| Acenaphthene | 68 | % |
| 2,4-Dinitrophenol | 50 | U |
| 4-Nitrophenol | 22 | % |
| Dibenzofuran | 10 | U |
| 2,4-Dinitrotoluene | 70 | % |
| Diethylphthalate | 10 | U |
| 4-Chlorophenyl-phenylether | 10 | U |
| Fluorene | 10 | U |
| 4-Nitroaniline | 50 | U |
| 4,6-Dinitro-2-methylphenol | 50 | U |
| N-Nitrosodiphenylamine (1) | 10 | U |
| 4-Bromophenyl-phenylether | 10 | U |
| Hexachlorobenzene | 10 | U |
| Pentachlorophenol | 79 | % |
| Phenanthrene | 10 | U |
| Anthracene | 10 | U |
| Di-n-Butylphthalate | 10 | U |
| Fluoranthene | 10 | U |
| Pyrene | 72 | % |
| Butylbenzylphthalate | 10 | U |
| 3,3'-Dichlorobenzidine | 20 | U |
| Benzo(a)anthracene | 10 | U |
| Chrysene | 10 | U |
| bis(2-Ethylhexyl)phthalate | 10 | U |
| Di-n-Octyl phthalate | 10 | U |
| Benzo(b)fluoranthene | 10 | U |
| Benzo(k)fluoranthene | 10 | U |
| Benzo(a)pyrene | 10 | U |
| Indeno(1,2,3-cd)pyrene | 10 | U |
| Dibenzo(a,h)anthracene | 10 | U |
| Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Gulf Coast Laboratories
PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9109G570 Client: GMAC Report Date: 10/03/91 09:46
Work Order: 1138-58-02-0000 Page: 1

| Sample Information | Cust ID: | GM-GW-MW04S-02 | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|---|
| | RFW#: | 012 | 91GP0674-MB1 | 91GP0674-MB1 | 91GP0674-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surrogate: Di-n-butylchlorendate | 87 | % | fl | 100 | % | fl | 94 | % | fl | 100 | % | fl | |
| Alpha-BHC | 0.048 | U | | 0.050 | U | | 0.050 | U | | 0.050 | U | | |
| Beta-BHC | 0.048 | U | | 0.050 | U | | 0.050 | U | | 0.050 | U | | |
| Delta-BHC | 0.048 | U | | 0.050 | U | | 0.050 | U | | 0.050 | U | | |
| gamma-BHC (Lindane) | 0.048 | U | | 0.050 | U | | 99 | % | | 109 | % | | |
| Heptachlor | 0.048 | U | | 0.050 | U | | 99 | % | | 99 | % | | |
| Aldrin | 0.048 | U | | 0.050 | U | | 70 | % | | 80 | % | | |
| Heptachlor epoxide | 0.048 | U | | 0.050 | U | | 0.050 | U | | 0.050 | U | | |
| Endosulfan I | 0.048 | U | | 0.050 | U | | 0.050 | U | | 0.050 | U | | |
| Dieldrin | 0.096 | U | | 0.10 | U | | 95 | % | | 103 | % | | |
| 4,4'-DDE | 0.096 | U | | 0.10 | U | | 0.10 | U | | 0.10 | U | | |
| Endrin | 0.096 | U | | 0.10 | U | | 116 | % | | 127 | * % | | |
| Endosulfan II | 0.096 | U | | 0.10 | U | | 0.10 | U | | 0.10 | U | | |
| 4,4'-DDD | 0.096 | U | | 0.10 | U | | 0.10 | U | | 0.10 | U | | |
| Endosulfan sulfate | 0.096 | U | | 0.10 | U | | 0.10 | U | | 0.10 | U | | |
| 4,4'-DDT | 0.096 | U | | 0.10 | U | | 109 | % | | 121 | % | | |
| Methoxychlor | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Endrin ketone | 0.096 | U | | 0.10 | U | | 0.10 | U | | 0.10 | U | | |
| alpha-Chlordane | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| gamma-Chlordane | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Toxaphene | 0.96 | U | | 1.0 | U | | 1.0 | U | | 1.0 | U | | |
| Aroclor-1016 | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Aroclor-1221 | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Aroclor-1232 | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Aroclor-1242 | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Aroclor-1248 | 0.48 | U | | 0.50 | U | | 0.50 | U | | 0.50 | U | | |
| Aroclor-1254 | 0.96 | U | | 1.0 | U | | 1.0 | U | | 1.0 | U | | |
| Aroclor-1260 | 0.96 | U | | 1.0 | U | | 1.0 | U | | 1.0 | U | | |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9109G556 Client: GM Report Date: 10/08/91 17:39
Work Order: 1138-58-02-0000 Page: 1

| Sample Information | Cust ID: | GM-GW-MW01S-02 | GM-GW-MW01D-02 | GM-GW-MW01D-02-DP | GM-GW-MW02D-02 | GM-GW-MW02D-02 | GM-GW-MW02D-02 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 004 MS | 004 MSD |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate: Di-n-butylchlorendate | | 98 % | 96 % | 100 % | 107 % | 103 % | 107 % |
| Alpha-BHC | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 0.12 U | 0.14 U |
| Beta-BHC | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 0.12 U | 0.14 U |
| Delta-BHC | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 0.12 U | 0.14 U |
| gamma-BHC (Lindane) | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 99 % | 99 % |
| Heptachlor | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 79 % | 89 % |
| Aldrin | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 70 % | 70 % |
| Heptachlor epoxide | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 0.12 U | 0.14 U |
| Endosulfan I | | 0.060 U | 0.054 U | 0.055 U | 0.065 U | 0.12 U | 0.14 U |
| Dieldrin | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 91 % | 91 % |
| 4,4'-DDE | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 0.24 U | 0.27 U |
| Endrin | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 86 % | 86 % |
| Endosulfan II | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 0.24 U | 0.27 U |
| 4,4'-DDD | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 0.24 U | 0.27 U |
| Endosulfan sulfate | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 0.24 U | 0.27 U |
| 4,4'-DDT | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 74 % | 86 % |
| Methoxychlor | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Endrin ketone | | 0.12 U | 0.11 U | 0.11 U | 0.13 U | 0.24 U | 0.27 U |
| alpha-Chlordane | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| gamma-Chlordane | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Toxaphene | | 1.2 U | 1.1 U | 1.1 U | 1.3 U | 2.4 U | 2.7 U |
| Aroclor-1016 | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Aroclor-1221 | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Aroclor-1232 | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Aroclor-1242 | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Aroclor-1248 | | 0.60 U | 0.54 U | 0.55 U | 0.65 U | 1.2 U | 1.4 U |
| Aroclor-1254 | | 1.2 U | 1.1 U | 1.1 U | 1.3 U | 2.4 U | 2.7 U |
| Aroclor-1260 | | 1.2 U | 1.1 U | 1.1 U | 1.3 U | 2.4 U | 2.7 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9109G556 Client: GM Report Date: 10/08/91 17:39
Work Order: 1138-58-02-0000 Page: 2

| Sample Information | Cust ID: | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|
| | RFW#: | 91GP0664-MB1 | 91GP0664-MB1 | 91GP0664-MB1 |
| | Matrix: | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L |
| Surrogate: Di-n-butylchlorendate | | 105 % | 105 % | 105 % |
| Alpha-BHC | | 0.050 U | 0.050 U | 0.050 U |
| Beta-BHC | | 0.050 U | 0.050 U | 0.050 U |
| Delta-BHC | | 0.050 U | 0.050 U | 0.050 U |
| gamma-BHC (Lindane) | | 0.050 U | 109 % | 109 % |
| Heptachlor | | 0.050 U | 99 % | 99 % |
| Aldrin | | 0.050 U | 80 % | 80 % |
| Heptachlor epoxide | | 0.050 U | 0.050 U | 0.050 U |
| Endosulfan I | | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | | 0.10 U | 99 % | 99 % |
| 4,4'-DDE | | 0.10 U | 0.10 U | 0.10 U |
| Endrin | | 0.10 U | 101 % | 104 % |
| Endosulfan II | | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan sulfate | | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | | 0.10 U | 102 % | 105 % |
| Methoxychlor | | 0.50 U | 0.50 U | 0.50 U |
| Endrin ketone | | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | | 1.0 U | 1.0 U | 1.0 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9109G557 Client: GM Report Date: 10/08/91 18:25
Work Order: 1138-58-02-0000 Page: 1

| Sample Information | Cust ID: | GM-GW-MW02S-02 | GM-GW-MW03S-02 | GM-GW-MW03D-02 | GM-GW-PZ02-01 | PBLK | PBLK BS |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 91GP0664-MB1 | 91GP0664-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |

| Surrogate: Di-n-butylchlorendate | 100 % fl | 107 % fl | 103 % fl | 91 % fl | 105 % fl | 105 % fl |
|---|---|---|---|---|---|---|
| Alpha-BHC | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 0.050 U |
| Beta-BHC | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 0.050 U |
| Delta-BHC | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 0.050 U |
| gamma-BHC (Lindane) | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 0.050 U |
| Heptachlor | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 109 % |
| Aldrin | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 99 % |
| Heptachlor epoxide | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 80 % |
| Endosulfan I | 0.060 U | 0.055 U | 0.055 U | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 99 % |
| 4,4'-DDE | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 101 % |
| Endosulfan II | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan sulfate | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 102 % |
| Methoxychlor | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Endrin ketone | 0.12 U | 0.11 U | 0.11 U | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.2 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.60 U | 0.55 U | 0.55 U | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.2 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.2 U | 1.1 U | 1.1 U | 1.0 U | 1.0 U | 1.0 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Cust ID: PBLK BSD

Sample Information

RFW#: 91GP0664-MB1
Matrix: WATER
D.F.: 1.00
Units: ug/L

| | | |
|---|---|---|
| Surrogate: Di-n-butylchlorendate | 105 | % |
| Alpha-BHC | 0.050 | U |
| Beta-BHC | 0.050 | U |
| Delta-BHC | 0.050 | U |
| gamma-BHC (Lindane) | 109 | % |
| Heptachlor | 99 | % |
| Aldrin | 80 | % |
| Heptachlor epoxide | 0.050 | U |
| Endosulfan I | 0.050 | U |
| Dieldrin | 99 | % |
| 4,4'-DDE | 0.10 | U |
| Endrin | 104 | % |
| Endosulfan II | 0.10 | U |
| 4,4'-DDD | 0.10 | U |
| Endosulfan sulfate | 0.10 | U |
| 4,4'-DDT | 105 | % |
| Methoxychlor | 0.50 | U |
| Endrin ketone | 0.10 | U |
| alpha-Chlordane | 0.50 | U |
| gamma-Chlordane | 0.50 | U |
| Toxaphene | 1.0 | U |
| Aroclor-1016 | 0.50 | U |
| Aroclor-1221 | 0.50 | U |
| Aroclor-1232 | 0.50 | U |
| Aroclor-1242 | 0.50 | U |
| Aroclor-1248 | 0.50 | U |
| Aroclor-1254 | 1.0 | U |
| Aroclor-1260 | 1.0 | U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

VES nal se C

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page 1 of 2

Client GM

Est. Final Proj. Sampling Date

Work Order # 1138-58-02

Project Contact/Phone # Jo Gom / 4021

AD Project Manager Jane Huber

QC Del TAT

Date Rec'd Date Due

Account #

| | | |

WESTON Analytics Use Only

91096556

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page ____ of ____

Client GM

Est. Final Proj. Sampling Date

Work Order # 1138-58-02

Project Contact/Phone # J. Gosh / 4021

AD Project Manager Jake Huber

QC ____ Del ____ TAT ____

Date Rec'd ____ Date Due ____

Account #

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | Amber Glass | | | | | | | | | | Plas | Plas | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | | | | | |
| Volume | Liquid | | 1 (Gal) | | | | | | | | | | 1L | 1L | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | | | | | Metal | CN | | | | | | | |

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | GM-GW-MW01S-02 | | W | 9-11-91 | | ✓ | ✓ | | | | | | ✓ | ✓ | | | | | | | |
| 002 | GM-GW-MW01D-02 | | W | ↓ | | ✓ | ✓ | | | | | | ✓ | ✓ | | | | | | | |
| 003 | GM-GW-MW01D-02-DP | | W | ↓ | | ✓ | ✓ | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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**Special Instructions:**

**DATE/REVISIONS:**

1. ____
2. ____
3. ____
4. ____
5. ____
6. ____

**WESTON Analytics Use Only**

Samples were: 1) Shipped X or Hand Delivered ___ Airbill # ___ (FedEx)

2) Ambient or Chilled

3) Received in Good Condition (Y) or N

4) Properly Preserved (Y) or N

5) Received Within Holding Times (Y) or N

COC Tape was: 1) Present on Outer Package (Y) or N

2) Unbroken on Outer Package (Y) or N

3) Present on Sample Y or (N)

4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't (Y) or N

Discrepancies Between Samples Labels and COC Record? (Y) or (N)

NOTES: 02-DP not marked for metals + CN Run per J. Huber

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | P. Spaulding | 9/12/91 | 1025 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

RFW 21-21-C 8/90 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# ____ G77-596a

Bottles marked

VES Analytical Services C

9101-0-10

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS



Client GM

Est. Final Proj. Sampling Date

Work Order # 1138-58-02

Project Contact/Phone # J. Goin /402/

AD Project Manager Jane Huber

QC Del TAT

Date Rec'd Date Due

Account #

| | | |

WESTON Analytics Use Only

91096556

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page ____ of ____

Client: GM

Est. Final Proj. Sampling Date: ____

Work Order #: 1138-58-02

Project Contact/Phone #: J. Goin / 4021

AD Project Manager: Jane Huber

QC ____ Del ____ TAT ____

Date Rec'd ____ Date Due ____

Account # ____

| | | |

STON Analyti... On...

9109655?

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page ____ of ____

Client GM
Est. Final Proj. Sampling Date
Work Order # 1138-58-02
Project Contact/Phone # J. Goin / 4021
AD Project Manager Jane Huber
QC ____ Del ____ TAT ____

Date Rec'd ____ Date Due ____
Account # ____

| | | |

002

original

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 91096556 |

GM (GMGULFSTP)

Client: GM
Work Order: 1138-58-02
Date Rec'd.: ~~9/12/91~~ 9/13/91 Date Due: 10/3/91
RFW Contact: Jane Huber
Client Contact/Phone: S. Babusukumar

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | QP | CLP | CLP | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | Y6 | Yp | Yp | | | | | | |
| | | | | Volume | 80oz | 1L | 1L | | | | | | |
| | | | | Preservative | | X | X | | | | | | |
| | | | | ANALYSES REQUESTED → | 0625H 0608H | CN | HSL 30L metals | | | | | | |
| 001 | GM-GW-MW01S-02 | W | 9/11/91 | | X | X | X | | | | | | |
| 002 | GM-GW-MW01D-02 | | | | | | | | | | | | |
| 003 | GM-GW-MW01D-02-DP | | | | | | | | | | | | |
| 004 | GM-GW-MW02D-02 MS/MSD | | | | | | | | | | | | |
| 005 | GM-GW-MW01S-FB | | | | | | | | | | | | |

QC/Del = ~~Stds~~ T2 Del
TAT = 14 day

Received on Limited TB
[illegible] for 0608H
Friday

Matrix: W - Water; DS - Drum Solids; X - Other; S - Soil; O - Oil; DL - Drum Liquids; SE - Sediment; A - Air; F - Fish; SO - Solid; WI - Wipe; L - EP/TCLP Leachate

Special Instructions: 2X volume sent for MS/MSD

Limited sample for FB → Organics - place on Hold til J.H. Finds out what to run.

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | P Braulds | 9/13/91 | 1515 |
| | [illegible] | P Pleggio | 9/19/91 | 933 am |

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | | | |

QC = CLP
Deliv. = Tier II

RFW 21-21-001/A-12/88

7-115

**WESTON Analytics Use Only**

Samples Were:
1 (Shipped) or Hand-Delivered
NOTES: Fed Ex

2 Ambient or (Chilled)
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) (N)
NOTES: See original COC

# Custody Transfer Record/Lab Work Request

WESTON

| WESTON Analytics Use Only |
|---|
| 91096557 |

GM/GWLIST3A

Client: GM
Work Order: 1138-58-02
Date Rec'd: 9/13/91 Date Due: 10/4/91
RFW Contact: Jane Huber
Client Contact/Phone: S. Babusukumar

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | CLP | QP | CLP | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 1G | 1P | 1P | | | | | | |
| | | | | Volume | 80oz | 1L | 1L | | | | | | |
| | | | | Preservative | | X | X | | | | | | |
| | | | | ANALYSES REQUESTED | 0625H 0608H | HSL SOL metals | CN | | | | | | |
| | | | | | 0608H | | | | | | | | |
| 001 | GM-GW-MW02S-02 | W | 9/12/91 | | X | X | | | | | | | |
| 002 | MW03S-02 | ↓ | ↓ | | ↓ | ↓ | X | | | | | | |
| 003 | MW03D-02 | ↓ | ↓ | | ↓ | ↓ | ↓ | | | | | | |
| 004 | PZ02-01 | ↓ | ↓ | | ↓ | ↓ | ↓ | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | QC/Del-B&T2D01 Receive data/fraction in Kimwipe for 0608H only | | | | | | | | | | | | |
| | TAT-15day | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

Matrix: W - Water; DS - Drum Solids; X - Other; S - Soil; O - Oil; DL - Drum Liquids; SE - Sediment; A - Air; F - Fish; SO - Solid; WI - Wipe; L - EP/TCLP Leachate

Special Instructions:
QC = CLP
Dcn. = Tier II
See 91096556 for extraction record

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | P. Spaulding | 9/13/91 | 1525 |
| | [illegible] | [illegible] | 9/19/91 | 930 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered (Y) N
NOTES: Fed Ex

2 Ambient or (Chilled)
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y (N)
NOTES:

4 Properly Preserved
(Y) N
NOTES:

5 Received Within Holding Times
(Y) N
NOTES:

COC Tape Was:
1 Present on Outer Package (Y) N
2 Unbroken on Outer Package (Y) N
3 Present on Sample Y (N)
4 Unbroken on Sample
NOTES: Y N

COC Record Was:
1 Present Upon Receipt of Samples (Y) N

Discrepancies Between Sample Labels and COC Record? (Y) (N)
NOTES: See Original COC

RFW 21-21-001/A-12/88

7-115

LABORATORY DATA SUMMARIES FOR
INORGANIC COMPOUND ANALYSES ARE
AVAILABLE FROM ROY F. WESTON, INC., AND
WILL BE SUBMITTED ON REQUEST

# APPENDIX G.3.5

# SURFACE WATER SAMPLES

DATA REVIEW SUMMARY

DATE: 7/20/91

SUBJECT: DATA REVIEW

PROJECT NAME: GM-AC LINDEN RD.

PROJECT MANAGER: BABUSUKUMAR

RFW #: 9105G525-CN/METALS/BNA/PEST/PCB/VOA

LABORATORY: WESTON-GULF COAST

REVIEWER: SALLY MATZ

SUMMARY OF FINDINGS:

N - HOLDING TIMES WERE ACCEPTABLE
BLANK WAS ACCEPTABLE
DUPLICATES (FIELD) WERE ACCEPTABLE
LCS WERE ACCEPTABLE

METALS - HOLDING TIMES WERE ACCEPTABLE
SELENIUM DETECTED IN METHOD BLANK - ASSOCIATED
DATA FLAGGED ACCORDINGLY (B)
FIELD DUPLICATES WERE ACCEPTABLE
LCS - % R WERE ACCEPTABLE

VOA - HOLDING TIMES WERE ACCEPTABLE
FIELD DUPLICATES WERE ACCEPTABLE
METHYLENE CHLORIDE DETECTED IN LAB BLANK - ASSOCIATED
DATA FLAGGED ACCORDINGLY (B)
SURROGATE RECOVERIES WERE ACCEPTABLE - NOTE 1 SURROGATE
OUTSIDE CONTROL LIMIT ON MS - NO ASSOCIATED DATA FLAG
MS/MSD WERE ACCEPTABLE

SAM
REVIEWER'S INITIALS

( ) DATA ACCEPTABLE FOR USE
(X) DATA ACCEPTABLE FOR USE WITH QUALIFICATIONS NOTED ABOVE
( ) DATA UNACCEPTABLE

BS - 1,1-DICHLOROETHENE OUTSIDE CONTROL LIMITS - NO ASSOCIATED DATA FLAG
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION (5/26) - CHLOROMETHANE/CARBON DISULFIDE % RSD > 30% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES 091/093-097
INITIAL CALIBRATION (6/12) - ACETONE % RSD > 30% - DETECTED

WESTON
MANAGERS DESIGNERS/CONSULTANTS



CLIENT/SUBJECT GM-AC LINDEN RD W.O. NO.

TASK DESCRIPTION DATA REVIEW SUMMARY TASK NO.

PREPARED BY DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

CMPD - FLAGGED AS ESTIMATED (J) - SAMPLES GW2

CONT. CALIBRATION (6/11) - CHLOROMETHANE/METHYLENE CHLORIDE/ACETONE/1,1-DICHLOROETHANE/1,2-DICHLOROPROPANE/BENZENE/2-HEXANONE %D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLES GW1/GW3-GW7

CONT. CALIBRATION (6/12) - CHLOROMETHANE/BROMOMETHANE/CARBON DISULFIDE/4-METHYL-2-PENTANONE/2-HEXANONE %D > 25% - DETECTED CMPDS FLAGGED AS ESTIMATED (J) - SAMPLE GW2

BNA - HOLDING TIMES WERE ACCEPTABLE
FIELD DUPLICATES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
SURROGATE RECOVERIES WERE OUTSIDE CONTROL LIMITS FOR SAMPLE GW1 - RECOVERIES WERE < 10% - POSITIVE RESULTS FLAGGED AS ESTIMATED (J) - NEGATIVE RESULTS FLAGGED AS UNUSABLE (R)
BS/BSD WERE ACCEPTABLE
GC/MS TUNING WAS ACCEPTABLE
INITIAL CALIBRATION - WAS ACCEPTABLE
CONT. CALIBRATION WAS ACCEPTABLE
OTHER CRITERIA WERE ACCEPTABLE

PEST/PCB - HOLDING TIMES WERE ACCEPTABLE
FIELD DUPLICATES WERE ACCEPTABLE
BLANKS WERE ACCEPTABLE
BS/BSD WERE ACCEPTABLE
SURROGATE RECOVERIES WERE ACCEPTABLE

[redacted] F. Weston, Inc. - Gulf Coast Laboratories

VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G525 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/09/91 15:37 Page: 1a

| | Cust ID: | LRSW01-0000 | LRSW02-0000 | LRSW03-0000 | LRSW04-0000 | LRSW04-0000-DP | LRSW05-0000 |
|---|---|---|---|---|---|---|---|
| Sample Information | RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 103 % | 102 % | 100 % | 108 % | 105 % | 105 % |
| | Bromofluorobenzene | 94 % | 92 % | 89 % | 89 % | 88 % | 91 % |
| | 1,2-Dichloroethane-d4 | 95 % | 106 % | 98 % | 97 % | 99 % | 98 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 5 U | 5 U | 22 | 25 | 26 | 21 |
| Acetone | | 11 B | 10 U | 20 B | 13 B | 14 B | 10 U |
| Carbon Disulfide | | 66 | 5 U | 2 J | 12 | 9 | 18 |
| 1,1-Dichloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRSW01-0000 | LRSW02-0000 | LRSW03-0000 | LRSW04-0000 | LRSW04-0000-DP | LRSW05-0000 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| Toluene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Sample Information | Cust ID: | LRTB01-0000 | LRTB01-0000 | LRTB01-0000 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|---|
| | RFW#: | 007 | 007 MS | 007 MSD | 91GVB204-MB1 | 91GVB204-MB1 | 91GVB205-MB1 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Toluene-d8 | 105 % | 118 * % | 110 % | 99 % | 100 % | 95 % |
| | Bromofluorobenzene | 91 % | 89 % | 97 % | 95 % | 102 % | 98 % |
| | 1,2-Dichloroethane-d4 | 96 % | 100 % | 95 % | 98 % | 98 % | 100 % |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromomethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Vinyl Chloride | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroethane | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Methylene Chloride | | 18 | 17 | 5 U | 5 U | 5 U | 5 U |
| Acetone | | 27 B | 34 B | 10 U | 49 | 14 B | 10 U |
| Carbon Disulfide | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | | 5 U | 95 % | 93 % | 5 U | 60 * % | 5 U |
| 1,1-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 1,1,1-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Tetrachloride | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Acetate | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | | 5 U | 81 % | 85 % | 5 U | 76 % | 5 U |
| Dibromochloromethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Benzene | | 5 U | 91 % | 91 % | 5 U | 86 % | 5 U |
| Trans-1,3-Dichloropropene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | LRTB01-0000 | LRTB01-0000 | LRTB01-0000 | VBLK | VBLK BS | VBLK |
|---|---|---|---|---|---|---|
| RFW#: | 007 | 007 MS | 007 MSD | 91GVB204-MB1 | 91GVB204-MB1 | 91GVB205-MB1 |
| Toluene | 5 U | 103 % | 99 % | 5 U | 86 % | 5 U |
| Chlorobenzene | 5 U | 97 % | 101 % | 5 U | 94 % | 5 U |
| Ethylbenzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Xylene (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

*= Outside of EPA CLP QC limits.

Cust ID: **VBLK BS**

Sample Information

RFW#: **91GVB205-MB1**
Matrix: WATER
D.F.: 1.00
Units: ug/L

| | | | |
|---|---|---|---|
| Surrogate Recovery | Toluene-d8 | 103 | % |
| | Bromofluorobenzene | 97 | % |
| | 1,2-Dichloroethane-d4 | 105 | % |

| | | |
|---|---|---|
| Chloromethane | 10 | U |
| Bromomethane | 10 | U |
| Vinyl Chloride | 10 | U |
| Chloroethane | 10 | U |
| Methylene Chloride | 5 | U |
| Acetone | 10 | U |
| Carbon Disulfide | 5 | U |
| 1,1-Dichloroethene | 86 | % |
| 1,1-Dichloroethane | 5 | U |
| 1,2-Dichloroethene (total) | 5 | U |
| Chloroform | 5 | U |
| 1,2-Dichloroethane | 5 | U |
| 2-Butanone | 10 | U |
| 1,1,1-Trichloroethane | 5 | U |
| Carbon Tetrachloride | 5 | U |
| Vinyl Acetate | 10 | U |
| Bromodichloromethane | 5 | U |
| 1,2-Dichloropropane | 5 | U |
| cis-1,3-Dichloropropene | 5 | U |
| Trichloroethene | 102 | % |
| Dibromochloromethane | 5 | U |
| 1,1,2-Trichloroethane | 5 | U |
| Benzene | 110 | % |
| Trans-1,3-Dichloropropene | 5 | U |
| Bromoform | 5 | U |
| 4-Methyl-2-pentanone | 10 | U |
| 2-Hexanone | 10 | U |
| Tetrachloroethene | 5 | U |
| 1,1,2,2-Tetrachloroethane | 5 | U |

*= Outside of EPA CLP QC limits.

Cust ID: VBLK BS

RFW#: 91GVB205-MB1

| | | |
|---|---|---|
| Toluene | 102 | % |
| Chlorobenzene | 106 | % |
| Ethylbenzene | 5 | U |
| Styrene | 5 | U |
| Xylene (total) | 5 | U |

*= Outside of EPA CLP QC limits.

F. ...ston, Inc. - Gulf Coast Laboratories

SEMIVOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9105G525 Client: GMAC Report Date: 07/02/91 14:05

Work Order: 1138-58-02-0000 Page: 1a

| | Cust ID: | LRSW01-0000 | LRSW02-0000 | LRSW03-0000 | LRSW04-0000 | LRSW04-0000-DP | LRSW05-0000 |
|---|---|---|---|---|---|---|---|
| Sample Information | RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Surrogate Recovery | Nitrobenzene-d5 | 79 % | 69 % | 73 % | 76 % | 79 % | 77 % |
| | 2-Fluorobiphenyl | 68 % | 63 % | 72 % | 69 % | 73 % | 71 % |
| | Terphenyl-d14 | 91 % | 95 % | 108 % | 100 % | 105 % | 104 % |
| | Phenol-d5 | 1 * % | 32 % | 35 % | 29 % | 32 % | 36 % |
| | 2-Fluorophenol | 1 * % | 49 % | 52 % | 45 % | 50 % | 53 % |
| | 2,4,6-Br3-phenol | 4 * % | 69 % | 75 % | 62 % | 68 % | 76 % |
| Phenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 5 J |
| bis(2-Chloroethyl)ether | | 13 | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2-Chlorophenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 1,3-Dichlorobenzene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 1,4-Dichlorobenzene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzyl alcohol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 1,2-Dichlorobenzene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2-Methylphenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 1 J |
| bis(2-Chloroisopropyl)ether | | 2 J | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Methylphenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 13 |
| N-Nitroso-Di-n-propylamine | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Hexachloroethane | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Nitrobenzene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Isophorone | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2-Nitrophenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,4-Dimethylphenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzoic acid | | 3 J | 50 U | 54 U | 50 U | 53 U | 59 U |
| bis(2-Chloroethoxy)methane | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,4-Dichlorophenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 1,2,4-Trichlorobenzene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Naphthalene | | 2 J | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Chloroaniline | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Hexachlorobutadiene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Chloro-3-methylphenol | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2-Methylnaphthalene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Hexachlorocyclopentadiene | | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9105G525 Client: GMAC Work Order: 1138-58-02-0000 

| Cust ID: | LRSW01-0000 | LRSW02-0000 | LRSW03-0000 | LRSW04-0000 | LRSW04-0000-DP | LRSW05-0000 |
|---|---|---|---|---|---|---|
| RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,4,5-Trichlorophenol | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| 2-Chloronaphthalene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2-Nitroaniline | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| Dimethylphthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Acenaphthylene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 3-Nitroaniline | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| Acenaphthene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,4-Dinitrophenol | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| 4-Nitrophenol | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| Dibenzofuran | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 2,4-Dinitrotoluene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Diethylphthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Chlorophenyl-phenylether | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Fluorene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Nitroaniline | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| 4,6-Dinitro-2-methylphenol | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| N-Nitrosodiphenylamine (1) | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 4-Bromophenyl-phenylether | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Hexachlorobenzene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Pentachlorophenol | 52 U | 50 U | 54 U | 50 U | 53 U | 59 U |
| Phenanthrene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Anthracene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Di-n-Butylphthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Fluoranthene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Pyrene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Butylbenzylphthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| 3,3'-Dichlorobenzidine | 21 U | 20 U | 22 U | 20 U | 21 U | 24 U |
| Benzo(a)anthracene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Chrysene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 3 J |
| Di-n-Octyl phthalate | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzo(b)fluoranthene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzo(a)pyrene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 11 U | 10 U | 11 U | 12 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

| | Cust ID: | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|---|
| Sample Information | RFW#: | 91GB0262-MB1 | 91GB0262-MB1 | 91GB0262-MB1 |
| | Matrix: | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L |
| Surrogate Recovery | Nitrobenzene-d5 | 70 % | 66 % | 67 % |
| | 2-Fluorobiphenyl | 65 % | 62 % | 60 % |
| | Terphenyl-d14 | 93 % | 105 % | 96 % |
| | Phenol-d5 | 29 % | 28 % | 28 % |
| | 2-Fluorophenol | 48 % | 43 % | 40 % |
| | 2,4,6-Br3-phenol | 65 % | 67 % | 63 % |
| Phenol | | 10 U | 27 % | 27 % |
| bis(2-Chloroethyl)ether | | 10 U | 10 U | 10 U |
| 2-Chlorophenol | | 10 U | 64 % | 61 % |
| 1,3-Dichlorobenzene | | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | | 10 U | 55 % | 55 % |
| Benzyl alcohol | | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | | 10 U | 10 U | 10 U |
| 2-Methylphenol | | 10 U | 10 U | 10 U |
| bis(2-Chloroisopropyl)ether | | 10 U | 10 U | 10 U |
| 4-Methylphenol | | 10 U | 10 U | 10 U |
| N-Nitroso-Di-n-propylamine | | 10 U | 59 % | 58 % |
| Hexachloroethane | | 10 U | 10 U | 10 U |
| Nitrobenzene | | 10 U | 10 U | 10 U |
| Isophorone | | 10 U | 10 U | 10 U |
| 2-Nitrophenol | | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | | 10 U | 10 U | 10 U |
| Benzoic acid | | 50 U | 50 U | 50 U |
| bis(2-Chloroethoxy)methane | | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | | 10 U | 10 U | 10 U |
| 1,2,4-Trichlorobenzene | | 10 U | 67 % | 66 % |
| Naphthalene | | 10 U | 10 U | 10 U |
| 4-Chloroaniline | | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | | 10 U | 58 % | 53 % |
| 2-Methylnaphthalene | | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | | 10 U | 10 U | 10 U |

*= Outside of EPA CLP QC limits.

| Cust ID: | SBLK | SBLK BS | SBLK BSD |
|---|---|---|---|
| RFW#: | 91GB0262-MB1 | 91GB0262-MB1 | 91GB0262-MB1 |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 50 U | 50 U | 50 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 U | 50 U | 50 U |
| Dimethylphthalate | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 10 U |
| 3-Nitroaniline | 50 U | 50 U | 50 U |
| Acenaphthene | 10 U | 72 % | 68 % |
| 2,4-Dinitrophenol | 50 U | 50 U | 50 U |
| 4-Nitrophenol | 50 U | 27 % | 22 % |
| Dibenzofuran | 10 U | 10 U | 10 U |
| 2,4-Dinitrotoluene | 10 U | 65 % | 60 % |
| Diethylphthalate | 10 U | 10 U | 10 U |
| 4-Chlorophenyl-phenylether | 10 U | 10 U | 10 U |
| Fluorene | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-methylphenol | 50 U | 50 U | 50 U |
| N-Nitrosodiphenylamine (1) | 10 U | 10 U | 10 U |
| 4-Bromophenyl-phenylether | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 U | 70 % | 67 % |
| Phenanthrene | 10 U | 10 U | 10 U |
| Anthracene | 10 U | 10 U | 10 U |
| Di-n-Butylphthalate | 10 U | 10 U | 10 U |
| Fluoranthene | 10 U | 10 U | 10 U |
| Pyrene | 10 U | 108 % | 98 % |
| Butylbenzylphthalate | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 20 U | 20 U | 20 U |
| Benzo(a)anthracene | 10 U | 10 U | 10 U |
| Chrysene | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 10 U |
| Di-n-Octyl phthalate | 10 U | 10 U | 10 U |
| Benzo(b)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 10 U |

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

[redacted] F ston, Inc. - Gulf Coast Laboratories [redacted]

PESTICIDE/PCBs BY GC, CLP LIST

RFW Batch Number: 9105G525 Client: GMAC Work Order: 1138-58-02-0000 Report Date: 07/14/91 17:50 Page: 1

| Sample Information | Cust ID: | LRSW01-0000 | LRSW02-0000 | LRSW03-0000 | LRSW04-0000 | LRSW04-0000-DP | LRSW05-0000 |
|---|---|---|---|---|---|---|---|
| | RFW#: | 001 | 002 | 003 | 004 | 005 | 006 |
| | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |

| Surrogate: Di-n-butylchlorendate | 115 % fl | 117 % fl | 105 % fl | 115 % fl | 120 % fl | 115 % fl |
|---|---|---|---|---|---|---|
| Alpha-BHC | 0.056 U | 0.011 J | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Beta-BHC | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Delta-BHC | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| gamma-BHC (Lindane) | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Heptachlor | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Aldrin | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Heptachlor epoxide | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Endosulfan I | 0.056 U | 0.053 U | 0.052 U | 0.046 U | 0.053 U | 0.057 U |
| Dieldrin | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| 4,4'-DDE | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| Endrin | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| Endosulfan II | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| 4,4'-DDD | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| Endosulfan sulfate | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| 4,4'-DDT | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| Methoxychlor | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Endrin ketone | 0.11 U | 0.11 U | 0.10 U | 0.093 U | 0.11 U | 0.11 U |
| alpha-Chlordane | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| gamma-Chlordane | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Toxaphene | 1.1 U | 1.1 U | 1.0 U | 0.93 U | 1.1 U | 1.1 U |
| Aroclor-1016 | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Aroclor-1221 | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Aroclor-1232 | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Aroclor-1242 | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Aroclor-1248 | 0.56 U | 0.53 U | 0.52 U | 0.46 U | 0.53 U | 0.57 U |
| Aroclor-1254 | 1.1 U | 1.1 U | 1.0 U | 0.93 U | 1.1 U | 1.1 U |
| Aroclor-1260 | 1.1 U | 1.1 U | 1.0 U | 0.93 U | 1.1 U | 1.1 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

| | Cust ID: | PBLK | PBLK BS | PBLK BSD |
|---|---|---|---|---|
| Sample Information | RFW#: | 91GP0418-MB1 | 91GP0418-MB1 | 91GP0418-MB1 |
| | Matrix: | WATER | WATER | WATER |
| | D.F.: | 1.00 | 1.00 | 1.00 |
| | Units: | ug/L | ug/L | ug/L |

| Surrogate: Di-n-butylchlorendate | 137 % | 132 % | 125 % |
|---|---|---|---|
| Alpha-BHC | 0.050 U | 0.050 U | 0.050 U |
| Beta-BHC | 0.050 U | 0.050 U | 0.050 U |
| Delta-BHC | 0.050 U | 0.050 U | 0.050 U |
| gamma-BHC (Lindane) | 0.050 U | 109 % | 109 % |
| Heptachlor | 0.050 U | 99 % | 99 % |
| Aldrin | 0.050 U | 80 % | 80 % |
| Heptachlor epoxide | 0.050 U | 0.050 U | 0.050 U |
| Endosulfan I | 0.050 U | 0.050 U | 0.050 U |
| Dieldrin | 0.10 U | 99 % | 95 % |
| 4,4'-DDE | 0.10 U | 0.10 U | 0.10 U |
| Endrin | 0.10 U | 86 % | 90 % |
| Endosulfan II | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDD | 0.10 U | 0.10 U | 0.10 U |
| Endosulfan sulfate | 0.10 U | 0.10 U | 0.10 U |
| 4,4'-DDT | 0.10 U | 105 % | 94 % |
| Methoxychlor | 0.50 U | 0.50 U | 0.50 U |
| Endrin ketone | 0.10 U | 0.10 U | 0.10 U |
| alpha-Chlordane | 0.50 U | 0.50 U | 0.50 U |
| gamma-Chlordane | 0.50 U | 0.50 U | 0.50 U |
| Toxaphene | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1016 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1221 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1232 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1242 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1248 | 0.50 U | 0.50 U | 0.50 U |
| Aroclor-1254 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor-1260 | 1.0 U | 1.0 U | 1.0 U |

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

# Custody Transfer Record/Lab Work Request

| WESTON Analytics Use Only |
|---|
| 9110652 |

Client GM
Work Order 1138-5-X-002
Date Rec'd. _____ Date Due _____
RFW Contact BARO
Client Contact/Phone JOE TIS (509)

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 1-P | 1-P | 1-P | 2-G | | | | | |
| | | | | Volume | 1 LITER | 1 LITER | 500 ML | 40 OZ | | | | | |
| | | | | Preservative | NONE | NONE | — | NONE | | | | | |
| | | | | ANALYSES REQUESTED | TPH | METALS | VOC | VOA | | | | | |
| 001 | LR-SW01-0000 | W | 5-30-91 | | X | X | X | X | | | | | |
| 002 | LR-SW02-0000 | W | 5-30-91 | | X | X | X | X | | | | | |
| 003 | LR-SW03-0000 | W | 5-30-91 | | X | X | X | X | | | | | |
| 004 | LR-SW04-0900-DP | W | 5-30-91 | | | | | X | | | | | |
| 005 | LR-SW04-0000 | W | 5-30-91 | | | | | X | | | | | |
| 006 | LR-SW05-0000 | W | 5-30-91 | | | | | X | | | | | |
| 007 | LR TB01-0000 | W | 5-30-91 | | | | | X | | | | | |
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Matrix: W - Water, S - Soil, SE - Sediment, SO - Solid, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: EQUIP BLANK = 001 7122 SOIL

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
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WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N
NOTES:

4 Properly Preserved Y N
NOTES:

5 Received Within Holding Times Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

RFW 21-21-001/A-12/88

7-115

| WESTON Analytics Use Only |
|---|
| |

# Custody Transfer Record/Lab Work Request

WESTON

Client _____

Work Order _____

Date Rec'd. _____ Date Due _____

RFW Contact _____

Client Contact/Phone _____

| WA Use Only Lab ID | Client ID/Description | Matrix | Date Collected | Refrigerator# | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | #/Type Container | 1/P | 1/P | 1/G | | | | | | |
| | | | | Volume | 1 Liter | 1 Liter | 40 ml | | | | | | |
| | | | | Preservative | NaOH | HNO3 | None | | | | | | |
| | | | | ANALYSES REQUESTED | (1) | Pb, Cu, Ni, Zn | TOC, TOX | | | | | | |
| | [illegible] SW04 - 0000 | W | 3/31/91 | | X | X | X | | | | | | |
| | [illegible] SW01 0000 - DP | W | 3/31/91 | | X | X | X | | | | | | |
| | [illegible] SW05 - 0000 | W | 3/31/91 | | X | X | X | | | | | | |
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Matrix:
S - Soil
SE - Sediment
SO - Solid
W - Water
O - Oil
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
F - Fish
L - EP/TCLP Leachate
X - Other

Special Instructions: SCAL # 00117[illegible]

| Item/Reason | Relinquished by | Received by | Date | Time | Item/Reason | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|
| | [illegible] | [illegible] | [illegible] | 1155 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |

**WESTON Analytics Use Only**

Samples Were:
1 Shipped or Hand-Delivered
NOTES: FC

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

4 Properly Preserved
Y N
NOTES:

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

LABORATORY DATA SUMMARIES FOR
INORGANIC COMPOUND ANALYSES ARE
AVAILABLE FROM ROY F. WESTON, INC., AND
WILL BE SUBMITTED ON REQUEST

# APPENDIX H

# RISK ASSESSMENT TABLES

APPENDIX H

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Table H-1

Concentration-Toxicity Screening for Chemicals in Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Target Analytes (mg/kg) | | | | | | | | | | | | |
| Aluminum | 10 / 10 | 403 | 117000 | 4116.67 | 36292.34 | | | | | | | |
| Arsenic | 9 / 10 | 1.7 | 27.6 | 7.82 | 18.61 | 1E-03 | 27600 | 0.013 | 1.8E+00 | 49.68 | 0 | A |
| Barium | 9 / 10 | 43.4 | 723 | 126.9 | 318.18 | 7E-02 | 10328.57 | 0.005 | | | | |
| Beryllium | 2 / 10 | 2.1 | 2.8 | 0.74 | 1.43 | 5E-03 | 560 | 0 | 4.3E+00 | 12.04 | 0 | B2 |
| Cadmium | 3 / 10 | 1.7 | 20.6 | 0.88 | 6.48 | 5E-04 | 41200 | 0.019 | 6.1E+00 | 125.66 | 0.001 | B1 |
| Calcium | 10 / 10 | 423 | 79600 | 12773.14 | 45836.27 | | | | | | | |
| Chromium | 10 / 10 | 14.1 | 3030 | 123.41 | 1093.07 | 5E-03 | 606000 | 0.28 | 4.1E+01 | 124230 | 0.948 | A |
| Cobalt | 9 / 10 | 5.7 | 79.1 | 10.98 | 30.62 | | | 0 | | | | |
| Copper | 9 / 10 | 9.6 | 6680 | 68.02 | 1956.7 | 4E-02 | 167000 | 0.077 | | | | |
| Iron | 10 / 10 | 2260 | 138000 | 22606.42 | 68981.03 | | | | | | | |
| Lead | 10 / 10 | 19.5 | 2720 | 187.77 | 955.79 | | | | | | | B2 |
| Magnesium | 10 / 10 | 2580 | 19400 | 5719.4 | 10987.8 | | | | | | | |
| Manganese | 10 / 10 | 21.5 | 7510 | 491.93 | 2744.29 | 1E-01 | 75100 | 0.035 | | | | D |
| Mercury | 4 / 10 | 0.14 | 1.2 | 0.11 | 0.43 | 3E-04 | 4000 | 0.002 | | | | |
| Nickel | 9 / 10 | 11.1 | 797 | 96.9 | 392.39 | 2E-02 | 39850 | 0.018 | 8.4E-01 | 669.48 | 0.005 | A |
| Potassium | 5 / 10 | 222 | 1180 | 418.04 | 720.04 | | | | | | | |
| Selenium | 5 / 10 | 0.25 | 2.7 | 0.54 | 1.34 | 3E-03 | 900 | 0 | | | | |
| Sodium | 10 / 10 | 86.4 | 1140 | 235.97 | 485.4 | | | | | | | |
| Vanadium | 9 / 10 | 5.1 | 34.9 | 12.65 | 26.06 | 7E-03 | 4985.714 | 0.002 | | | | |
| Zinc | 10 / 10 | 9.3 | 1480 | 90.14 | 501.48 | 2E-01 | 7400 | 0.003 | | | | D |
| Cyanide | 3 / 10 | 0.88 | 65.9 | 0.81 | 19.26 | 2E-02 | 3295 | 0.002 | | | | |
| Target Compounds (ug/kg) | | | | | | | | | | | | |
| 4-Methylphenol | 1 / 8 | 4300 | 4300 | 902.5 | 2624.06 | 5.0E-02 | 86 | 0 | | | | C |
| Naphthalene | 6 / 10 | 140 | 170000 | 2192.99 | 56076.66 | 4.0E-03 | 42500 | 0.02 | | | | D |
| 2-Methylnaphthalene | 4 / 8 | 91 | 16000 | 801.51 | 6431.77 | | | | | | | |
| Acenaphthylene | 2 / 6 | 530 | 660 | 368.36 | 568.2 | | | | | | | D |
| Acenaphthene | 5 / 8 | 530 | 6500 | 1190.62 | 4074.9 | 6.0E-02 | 108.3333 | 0 | | | | |
| Dibenzofuran | 5 / 8 | 230 | 5200 | 878.61 | 3102.93 | | | | | | | D |
| Fluorene | 5 / 8 | 420 | 7600 | 1115.39 | 4298.82 | 4.0E-02 | 190 | 0 | | | | D |
| Phenanthrene | 7 / 9 | 970 | 130000 | 4545.2 | 50446.71 | | | | | | | D |
| Anthracene | 5 / 8 | 560 | 23000 | 1396.68 | 9758.39 | 3.0E-01 | 76.66667 | 0 | | | | D |

Table H-1 (Continued)

Concentration-Toxicity Screening for Chemicals in Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Di-n-Butylphthalate | 3 / 8 | 58 | 11000 | 845.14 | 4830.8 | 1.0E-01 | 110 | 0 | | | | D |
| Fluoranthene | 6 / 9 | 1500 | 290000 | 5162.72 | 102477.42 | 4.0E-02 | 7250 | 0.003 | | | | D |
| Pyrene | 8 / 9 | 62 | 230000 | 4358.27 | 82936.64 | 3.0E-02 | 7666.667 | 0.004 | | | | D |
| Benz(a)Anthracene | 4 / 9 | 2400 | 200000 | 4939.02 | 73330.17 | | | | 1.7E+00 | 340 | 0.003 | B2 |
| Chrysene | 6 / 9 | 810 | 220000 | 3576.15 | 78025.72 | | | | 5.1E-02 | 11.22 | 0 | B2 |
| bis(2-Ethylhexyl)Phthalate | 4 / 8 | 98 | 3100 | 699.01 | 2284.82 | 2.0E-02 | 155 | 0 | 1.4E-02 | 0.0434 | 0 | B2 |
| Benzo(b)Fluoranthene | 4 / 9 | 2300 | 240000 | 4634.27 | 84691.6 | | | | 1.6E+00 | 384 | 0.003 | B2 |
| Benzo(k)Fluoranthene | 4 / 9 | 720 | 100000 | 2867.72 | 39526.63 | | | | 7.6E-01 | 76 | 0.001 | B2 |
| Benzo(a)Pyrene | 4 / 9 | 1600 | 210000 | 4135.45 | 74687.87 | | | | 1.2E+01 | 2415 | 0.018 | B2 |
| Indeno(1,2,3-cd)Pyrene | 4 / 9 | 750 | 170000 | 4153.27 | 63066.63 | | | | 2.7E+00 | 459 | 0.004 | B2 |
| Dibenz(a,h)Anthracene | 3 / 9 | 2700 | 75000 | 2779.41 | 33036.96 | | | | 1.3E+01 | 975 | 0.007 | B2 |
| Benzo(g,h,i)Perylene | 4 / 9 | 4600 | 200000 | 5457.74 | 73817.4 | | | | | | | D |
| Methylene Chloride | 9 / 10 | 21 | 56000000 | 419.46 | 15864967 | 6.0E-02 | 933333.3 | 0.432 | 7.5E-03 | 420 | 0.003 | B2 |
| Acetone | 6 / 10 | 120 | 130000 | 149.81 | 37077.71 | 1.0E-01 | 1300 | 0.001 | | | | D |
| Carbon Disulfide | 1 / 9 | 130 | 130 | 5.38 | 43.78 | 1.0E-01 | 1.3 | 0 | | | | |
| 1,1-Dichloroethane | 1 / 9 | 1200 | 1200 | 6.88 | 383.81 | 1.0E-01 | 12 | 0 | | | | C |
| 1,2-Dichloroethene (total) | 3 / 9 | 9 | 190 | 10.83 | 73.27 | 1.0E-02 | 19 | 0 | | | | D |
| Chloroform | 1 / 10 | 100000 | 100000 | 12.18 | 28334.3 | 1.0E-02 | 10000 | 0.005 | 6.1E-03 | 0.61 | 0 | B2 |
| 2-Butanone | 4 / 10 | 9 | 1900000 | 37.64 | 538283.82 | 5.0E-02 | 38000 | 0.018 | | | | D |
| 1,1,1-Trichloroethane | 2 / 10 | 1100 | 92000 | 17.64 | 26154.69 | 9.0E-02 | 1022.222 | 0 | | | | D |
| Trichloroethene | 8 / 10 | 3 | 47000 | 109.19 | 14721.1 | | | 0 | 1.1E-02 | 0.517 | 0 | B2 |
| Benzene | 3 / 9 | 4 | 260 | 7.26 | 87.59 | | | 0 | 2.9E-02 | 0.00754 | 0 | A |
| Tetrachloroethene | 7 / 9 | 7 | 66 | 16.87 | 42.44 | 1.0E-02 | 6.6 | 0 | 5.1E-02 | 0.003366 | 0 | B2 |
| 1,1,2,2-Tetrachloroethane | 4 / 9 | 18 | 94 | 11.13 | 46.42 | | | | 2.0E-01 | 0.0188 | 0 | C |
| Toluene | 10 / 10 | 6 | 18000000 | 228.61 | 5099572.9 | 3.0E-01 | 60000 | 0.028 | | | | D |
| Chlorobenzene | 3 / 8 | 3 | 5 | 3.81 | 4.4 | 2.0E-02 | 0.25 | 0 | | | | D |
| Ethylbenzene | 6 / 10 | 6 | 5300000 | 58.83 | 1501588.5 | 1.0E-01 | 53000 | 0.025 | | | | D |
| Xylenes (total) | 7 / 10 | 4 | 34000000 | 191.59 | 9633055.2 | 2.0E+00 | 17000 | 0.008 | | | | D |
| alpha-BHC | 2 / 7 | 33 | 210 | 29.91 | 108.49 | | | | 6.3E+00 | 1.323 | 0 | B2 |
| delta-BHC | 1 / 8 | 280 | 280 | 44.32 | 170.16 | | | | | | | D |
| 4,4'-DDT | 1 / 7 | 470 | 470 | 66.55 | 245.31 | 5.0E-04 | 940 | 0 | 3.4E-01 | 0.1598 | 0 | B2 |

Table H-1 (Continued)

Concentration-Toxicity Screening for Chemicals in Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Aroclor-1248 | 1 / 7 | 4800 | 4800 | 458.45 | 2603.03 | | | | 7.7E+00 | 36.96 | 0 | B2 |
| Aroclor-1254 | 5 / 10 | 98 | 110000 | 3572.02 | 39590.47 | | | | 7.7E+00 | 847 | 0.006 | B2 |
| Aroclor-1260 | 1 / 6 | 3700 | 3700 | 583.73 | 2255.93 | | | | 7.7E+00 | 28.49 | 0 | B2 |
| | | TAL Normal. Factor: | | 1 | | Sum TAL Score: 988219.3 | | | Sum TAL Score:125086.9 | | | |
| | | TCL Normal. Factor: | | 0.001 | | Sum TCL Score: 1172778 | | | Sum TCL Score:5995.353 | | | |
| | | | | | | TAL + TCL Score: 2160997 | | | TAL + TCL Score:131082.2 | | | |

Table H-2

Concentration-Toxicity Screening for Chemicals in Near-Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Target Analytes (mg/kg) | | | | | | | | | | | | |
| Aluminum | 35 / 35 | 403 | 117000 | 4712.66 | 14081.02 | | | | | | | |
| Antimony | 6 / 35 | 28.6 | 1130 | 28.41 | 175.45 | 4E-04 | 2825000 | 0.281 | | | | |
| Arsenic | 33 / 35 | 1.7 | 130 | 13.29 | 26.67 | 1E-03 | 130000 | 0.013 | 1.8E+00 | 234 | 0 | A |
| Barium | 34 / 35 | 34.8 | 4840 | 312.67 | 1053.08 | 7E-02 | 69142.86 | 0.007 | | | | |
| Beryllium | 11 / 33 | 0.83 | 3.2 | 0.83 | 1.3 | 5E-03 | 640 | 0 | 4.3E+00 | 13.76 | 0 | B2 |
| Cadmium | 13 / 35 | 1 | 40.1 | 1.45 | 7.26 | 5E-04 | 80200 | 0.008 | 6.1E+00 | 244.61 | 0 | B1 |
| Calcium | 35 / 35 | 423 | 79600 | 15136.53 | 29066.23 | | | | | | | |
| Chromium | 35 / 35 | 6.1 | 24800 | 202.13 | 2471.3 | 5E-03 | 4960000 | 0.494 | 4.1E+01 | 1016800 | 0.989 | A |
| Cobalt | 31 / 34 | 5.7 | 99.9 | 12.62 | 23.34 | | | | | | | |
| Copper | 34 / 35 | 5.9 | 6680 | 159.61 | 940.15 | 4E-02 | 167000 | 0.017 | | | | |
| Iron | 35 / 35 | 2130 | 414000 | 46048.31 | 110947.16 | | | | | | | |
| Lead | 35 / 35 | 8.5 | 115000 | 417.84 | 10543.72 | | | | | | | |
| Magnesium | 35 / 35 | 183 | 19400 | 4252.27 | 7960.24 | | | | | | | B2 |
| Manganese | 35 / 35 | 21.5 | 8660 | 915.33 | 2267.9 | 1E-01 | 86600 | 0.009 | | | | D |
| Mercury | 22 / 35 | 0.14 | 1.6 | 0.21 | 0.51 | 3E-04 | 5333.333 | 0.001 | | | | |
| Nickel | 33 / 35 | 11.1 | 5470 | 183.32 | 905.12 | 2E-02 | 273500 | 0.027 | 8.4E-01 | 4594.8 | 0.004 | A |
| Potassium | 20 / 34 | 222 | 1700 | 412.55 | 727.59 | | | | | | | |
| Selenium | 20 / 35 | 0.25 | 40.2 | 0.72 | 4.18 | 3E-03 | 13400 | 0.001 | | | | |
| Sodium | 33 / 35 | 86.4 | 1260 | 265.69 | 452.74 | | | | | | | |
| Thallium | 3 / 34 | 0.77 | 1.1 | 0.41 | 0.49 | 7E-05 | 15714.29 | 0.002 | | | | |
| Vanadium | 31 / 35 | 5.1 | 311 | 22.66 | 50.38 | 7E-03 | 44428.57 | 0.004 | | | | |
| Zinc | 35 / 35 | 9.3 | 3310 | 221.19 | 827.93 | 2E-01 | 16550 | 0.002 | | | | |
| Cyanide | 14 / 35 | 0.69 | 65.9 | 0.64 | 6.22 | 2E-02 | 3295 | 0 | | | | D |
| Target Compounds (ug/kg) | | | | | | | | | | | | |
| Phenol | 3 / 29 | 580 | 1200 | 21.09 | 335.89 | 6.0E-01 | 2 | 0 | | | | |
| bis(2-Chloroisopropyl)Ether | 1 / 10 | 460 | 460 | 240.23 | 296.94 | 4.0E-02 | 11.5 | 0 | | | | D |
| 4-Methylphenol | 1 / 35 | 4300 | 4300 | 383.22 | 1746.37 | 5.0E-02 | 86 | 0 | | | | |
| Benzoic Acid | 1 / 1 | 760 | 760 | 760 | 760 | 4.0E+00 | 0.19 | 0 | | | | C |
| 1,2,4-Trichlorobenzene | 3 / 35 | 670 | 87000 | 1166.48 | 12050.23 | 1.3E-03 | 66412.21 | 0.007 | | | | |
| Naphthalene | 23 / 35 | 49 | 380000 | 2039.43 | 51832.91 | 4.0E-03 | 95000 | 0.009 | | | | |
| 2-Methylnaphthalene | 21 / 35 | 61 | 71000 | 1218.87 | 11843.56 | | | | | | | D |
| Acenaphthylene | 4 / 18 | 160 | 1700 | 128.76 | 569.33 | | | | | | | D |

Table H-2 (Continued)

Concentration-Toxicity Screening for Chemicals in Near-Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Acenaphthene | 20 / 35 | 60 | 22000 | 823.33 | 4264.6 | 6.0E-02 | 366.6667 | 0 | | | | |
| Dibenzofuran | 20 / 35 | 75 | 20000 | 663.32 | 3466.92 | | | | | | | D |
| Fluorene | 20 / 35 | 93 | 25000 | 893.1 | 5046.69 | 4.0E-02 | 625 | 0 | | | | D |
| Phenanthrene | 28 / 35 | 540 | 130000 | 4349.25 | 30665.11 | | | | | | | D |
| Anthracene | 20 / 35 | 110 | 23000 | 793.7 | 4453.12 | 3.0E-01 | 76.66667 | 0 | | | | D |
| Di-n-Butylphthalate | 16 / 35 | 58 | 4700000 | 2146.74 | 387444.83 | 1.0E-01 | 47000 | 0.005 | | | | D |
| Fluoranthene | 28 / 35 | 78 | 290000 | 4065.8 | 38255.03 | 4.0E-02 | 7250 | 0.001 | | | | D |
| Pyrene | 30 / 35 | 62 | 230000 | 5019.38 | 39493.31 | 3.0E-02 | 7666.667 | 0.001 | | | | D |
| Benz(a)Anthracene | 23 / 35 | 78 | 200000 | 3009.04 | 27524.95 | | | | 1.7E+00 | 340 | 0 | B2 |
| Chrysene | 25 / 35 | 90 | 220000 | 2570.65 | 27957.59 | | | | 5.1E-02 | 11.22 | 0 | B2 |
| bis(2-Ethylhexyl)Phthalate | 20 / 35 | 93 | 35000 | 866.32 | 6523.18 | 2.0E-02 | 1750 | 0 | 1.4E-02 | 0.49 | 0 | B2 |
| Benzo(b)Fluoranthene | 12 / 35 | 2300 | 240000 | 2524.25 | 28515.8 | | | | 1.6E+00 | 384 | 0 | B2 |
| Benzo(k)Fluoranthene | 12 / 35 | 720 | 100000 | 1982.53 | 17282.13 | | | | 7.6E-01 | 76 | 0 | B2 |
| Benzo(a)Pyrene | 10 / 35 | 1600 | 210000 | 2282.93 | 25296.74 | | | | 1.2E+01 | 2415 | 0.002 | B2 |
| Indeno(1,2,3-cd)Pyrene | 11 / 35 | 750 | 170000 | 2384.27 | 22741.64 | | | | 2.7E+00 | 459 | 0 | B2 |
| Dibenz(a,h)Anthracene | 6 / 35 | 1700 | 75000 | 1689.69 | 14319.49 | | | | 1.3E+01 | 975 | 0.001 | B2 |
| Benzo(g,h,i)Perylene | 12 / 35 | 4600 | 200000 | 2659.19 | 25860.33 | | | | | | | D |
| Methylene Chloride | 24 / 35 | 21 | 56000000 | 140.27 | 4343265.1 | 6.0E-02 | 933333.3 | 0.093 | 7.5E-03 | 420 | 0 | B2 |
| Acetone | 20 / 35 | 80 | 130000 | 132.9 | 10681.25 | 1.0E-01 | 1300 | 0 | | | | D |
| Carbon Disulfide | 5 / 35 | 8 | 130 | 4.29 | 16.48 | 1.0E-01 | 1.3 | 0 | | | | |
| 1,1-Dichloroethane | 3 / 35 | 5 | 1200 | 5.59 | 120.5 | 1.0E-01 | 12 | 0 | | | | C |
| 1,2-Dichloroethene (total) | 7 / 35 | 9 | 15000 | 8.2 | 1186.39 | 1.0E-02 | 1500 | 0 | | | | D |
| Chloroform | 3 / 35 | 32 | 100000 | 7.57 | 7840.22 | 1.0E-02 | 10000 | 0.001 | 6.1E-03 | 0.61 | 0 | B2 |
| 2-Butanone | 8 / 35 | 9 | 1900000 | 20.07 | 147392.81 | 5.0E-02 | 38000 | 0.004 | | | | D |
| 1,1,1-Trichloroethane | 2 / 35 | 1100 | 92000 | 7.53 | 7186.77 | 9.0E-02 | 1022.222 | 0 | | | | D |
| Trichloroethene | 24 / 35 | 3 | 47000 | 35.48 | 4661.23 | | | | 1.1E-02 | 0.517 | 0 | B2 |
| Benzene | 13 / 35 | 3 | 40000 | 8.09 | 3320.02 | | | | 2.9E-02 | 1.16 | 0 | A |
| 4-Methyl-2-Pentanone | 1 / 35 | 160000 | 160000 | 15.57 | 16044.98 | 5.0E-02 | 3200 | 0 | | | | |
| Tetrachloroethene | 14 / 35 | 7 | 71 | 7.03 | 21.08 | 1.0E-02 | 7.1 | 0 | 5.1E-02 | 0.003621 | 0 | B2 |
| 1,1,2,2-Tetrachloroethane | 12 / 35 | 7 | 94 | 6.49 | 20.85 | | | | 2.0E-01 | 0.0188 | 0 | C |
| Toluene | 35 / 35 | 4 | 18000000 | 85.15 | 1406575.4 | 3.0E-01 | 60000 | 0.006 | | | | D |
| Chlorobenzene | 3 / 35 | 3 | 5 | 2.96 | 3.5 | 2.0E-02 | 0.25 | 0 | | | | D |
| Ethylbenzene | 21 / 35 | 2 | 5300000 | 32.61 | 418996.88 | 1.0E-01 | 53000 | 0.005 | | | | D |

Table H-2 (Continued)

Concentration-Toxicity Screening for Chemicals in Near-Surface Soil
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Xylenes (total) | 26 / 35 | 4 | 34000000 | 113.94 | 2660266.8 | 2.0E+00 | 17000 | 0.002 | | | | D |
| alpha-BHC | 5 / 35 | 15 | 320 | 29.51 | 117.54 | | | | 6.3E+00 | 2.016 | 0 | B2 |
| delta-BHC | 3 / 35 | 23 | 830 | 52.7 | 206.01 | | | | | | | D |
| 4,4'-DDT | 4 / 35 | 24 | 470 | 29.62 | 160.15 | 5.0E-04 | 940 | 0 | 3.4E-01 | 0.1598 | 0 | B2 |
| Aroclor-1248 | 1 / 35 | 4800 | 4800 | 230.36 | 1385.33 | | | | 7.7E+00 | 36.96 | 0 | B2 |
| Aroclor-1254 | 16 / 35 | 98 | 110000 | 3139.51 | 21929.74 | | | | 7.7E+00 | 847 | 0.001 | B2 |
| Aroclor-1260 | 2 / 28 | 120 | 3700 | 158.32 | 1150.11 | | | | 7.7E+00 | 28.49 | 0 | B2 |

| | | | |
|---|---|---|---|
| TAL Normal. Factor: | 1 | Sum TAL Score: 8690804 | Sum TAL Score: 1021887 |
| TCL Normal. Factor: | 0.001 | Sum TCL Score: 1345563 | Sum TCL Score: 5997.64 |
| | | TAL + TCL Score: 10036367 | TAL + TCL Score: 1027885 |

Table H-3

Concentration-Toxicity Screening for Chemicals in Surface Water
Linden Road Landfill
Flint, Michigan

| Contaminant | Frequency of Detection | Range of Detected Concentrations | | Exposure Concentration | | Concentration-Toxicity Screening | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Noncarcinogenic | | | Carcinogenic | | | |
| | | Minimum | Maximum | Average | Maximum | Reference Dose | Chemical Score | Fraction of Total | Slope Factor | Chemical Score | Fraction of Total | Risk Group |
| Target Analytes (ug/L) | | | | | | | | | | | | |
| Aluminum | 4 / 5 | 220 | 730 | 292.97 | 621.36 | | | | | | | |
| Arsenic | 5 / 5 | 2.7 | 5.7 | 4.13 | 5.35 | 1.0E-03 | 5700 | 0.038 | 1.8E+00 | 10.26 | 0.015 | A |
| Barium | 5 / 5 | 70 | 420 | 168.5 | 342.61 | 7.0E-02 | 6000 | 0.04 | | | | |
| Calcium | 5 / 5 | 75200 | 238000 | 121842.01 | 193498.89 | | | | | | | |
| Cobalt | 1 / 5 | 30 | 30 | 12.46 | 22.53 | | | | | | | |
| Copper | 1 / 5 | 25 | 25 | 12.01 | 19.4 | 3.7E-02 | 675.6757 | 0.004 | | | | D |
| Iron | 5 / 5 | 820 | 4100 | 1478.23 | 3055.82 | | | | | | | |
| Lead | 4 / 5 | 3.5 | 12 | 4.51 | 9.95 | 1.4E-03 | 8571.429 | 0.056 | | | | B2 |
| Magnesium | 5 / 5 | 23800 | 88200 | 59543.54 | 88200 | | | | | | | |
| Manganese | 5 / 5 | 200 | 8900 | 784.6 | 5802.75 | 1.0E-01 | 89000 | 0.586 | | | | D |
| Nickel | 2 / 5 | 35 | 800 | 30.86 | 507.35 | 2.0E-02 | 40000 | 0.263 | 8.4E-01 | 672 | 0.965 | A |
| Potassium | 5 / 5 | 13800 | 24500 | 19729.01 | 23861.16 | | | | | | | |
| Sodium | 5 / 5 | 13400 | 59400 | 34496.28 | 54505.99 | | | | | | | |
| Zinc | 5 / 5 | 14 | 44 | 29.46 | 42.61 | 2.0E-01 | 220 | 0.001 | | | | |
| Target Compounds (ug/L) | | | | | | | | | | | | |
| Carbon Disulfide | 4 / 5 | 2 | 66 | 9.35 | 45.39 | 1.0E-01 | 660 | 0.004 | | | | |
| Phenol | 1 / 5 | 5 | 5 | 5 | 5 | 6.0E-01 | 8.333333 | 0 | | | | D |
| bis(2-Chloroethyl)ether | 1 / 5 | 13 | 13 | 6.4 | 10.18 | | | 0 | 1.1E+00 | 14.3 | 0.021 | B2 |
| 2-Methylphenol | 1 / 1 | 1 | 1 | 1 | 1 | 5.0E-02 | 20 | 0 | | | | C |
| bis(2-Chloroisopropyl)ether | 1 / 1 | 2 | 2 | 2 | 2 | 4.0E-02 | 50 | 0 | | | | |
| 4-Methylphenol | 1 / 5 | 13 | 13 | 6.17 | 10.06 | 5.0E-02 | 260 | 0.002 | | | | C |
| Naphthalene | 1 / 1 | 2 | 2 | 2 | 2 | 4.0E-03 | 500 | 0.003 | | | | D |
| bis(2-Ethylhexyl)phthalate | 1 / 1 | 3 | 3 | 3 | 3 | 2.0E-02 | 150 | 0.001 | 1.4E-02 | 0.042 | 0 | B2 |
| alpha-BHC | 1 / 1 | 0.01 | 0.01 | 0.01 | 0.01 | | | 0 | 6.3E+00 | 0.063 | 0 | B2 |

| | | | | |
|---|---|---|---|---|
| TAL Normal. Factor: | 1 | Sum TAL Score: | 150167.1 | Sum TAL Score: 682.26 |
| TCL Normal. Factor: | 1 | Sum TCL Score: | 1648.333 | Sum TCL Score: 14.405 |
| | | TAL + TCL Score: | 151815.4 | TAL + TCL Score: 696.665 |

TABLE H–4
GM–LINDEN ROAD SITE
SITE TRESPASSER EXPOSURE
INGESTION OF CHEMICALS IN SOIL
NON–CARCINOGENIC RISK
ADOLESCENT – CURRENT

| CONTAMINANTS | SOIL CONCENTRATION | | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | REFERENCE DOSE (RfD) (mg/kg/day) | HAZARD INDEX (CDI/RfD) | HAZARD INDEX (CDI/RfD) |
|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | |
| Arsenic | 18.61 | 7.82 | 6.4E–07 | 1.3E–07 | 3.0E–04 | 2.1E–03 | 4.5E–04 |
| Barium | 318.18 | 126.90 | 1.1E–05 | 2.2E–06 | 5.0E–02 | 2.2E–04 | 4.3E–05 |
| Beryllium | 1.43 | 0.74 | 4.9E–08 | 1.3E–08 | 5.0E–03 | 9.8E–06 | 2.5E–06 |
| Cadmium (food) | 6.48 | 0.88 | 2.2E–07 | 1.5E–08 | 1.0E–03 | 2.2E–04 | 1.5E–05 |
| Chromium (III) | 983.763 | 111.069 | 3.4E–05 | 1.9E–06 | 1.0E+00 | 3.4E–05 | 1.9E–06 |
| Chromium (VI) | 109.31 | 12.34 | 3.7E–06 | 2.1E–07 | 5.0E–03 | 7.5E–04 | 4.2E–05 |
| Copper | 1956.70 | 68.02 | 6.7E–05 | 1.2E–06 | 4.0E–02 | 1.7E–03 | 2.9E–05 |
| Manganese | 2744.29 | 491.93 | 9.4E–05 | 8.4E–06 | 1.0E–01 | 9.4E–04 | 8.4E–05 |
| Mercury | 0.43 | 0.11 | 1.5E–08 | 1.9E–09 | 3.0E–04 | 4.9E–05 | 6.3E–06 |
| Nickel | 392.39 | 96.90 | 1.3E–05 | 1.7E–06 | 2.0E–02 | 6.7E–04 | 8.3E–05 |
| Selenium | 1.34 | 0.54 | 4.6E–08 | 9.2E–09 | 3.0E–03 | 1.5E–05 | 3.1E–06 |
| Vanadium | 26.06 | 12.65 | 8.9E–07 | 2.2E–07 | 7.0E–03 | 1.3E–04 | 3.1E–05 |
| Zinc | 501.48 | 90.14 | 1.7E–05 | 1.5E–06 | 2.0E–01 | 8.6E–05 | 7.7E–06 |
| Cyanide | 19.26 | 0.81 | 6.6E–07 | 1.4E–08 | 2.0E–02 | 3.3E–05 | 6.9E–07 |
| Organics (µg/kg) | | | | | | | |
| 4–Methylphenol | 2624.06 | 902.5 | 9.0E–08 | 1.5E–08 | 5.0E–02 | 1.8E–06 | 3.1E–07 |
| Naphthalene | 56076.66 | 2192.99 | 1.9E–06 | 3.8E–08 | 4.0E–03 | 4.8E–04 | 9.4E–06 |
| Di–n–Butylphthalate | 4830.8 | 845.14 | 1.7E–07 | 1.4E–08 | 1.0E–01 | 1.7E–06 | 1.4E–07 |
| Fluoranthene | 102477.42 | 5162.72 | 3.5E–06 | 8.8E–08 | 4.0E–02 | 8.8E–05 | 2.2E–06 |
| Pyrene | 82936.64 | 4358.27 | 2.8E–06 | 7.5E–08 | 3.0E–02 | 9.5E–05 | 2.5E–06 |
| bis(2–Ethylhexyl)Phthalate | 2284.82 | 699.01 | 7.8E–08 | 1.2E–08 | 2.0E–02 | 3.9E–06 | 6.0E–07 |
| Methylene Chloride | 15864967 | 419.46 | 5.4E–04 | 7.2E–09 | 6.0E–02 | 9.1E–03 | 1.2E–07 |
| Acetone | 37077.71 | 149.81 | 1.3E–06 | 2.6E–09 | 1.0E–01 | 1.3E–05 | 2.6E–08 |
| Carbon Disulfide | 43.78 | 5.38 | 1.5E–09 | 9.2E–11 | 1.0E–01 | 1.5E–08 | 9.2E–10 |
| 1,1–Dichloroethane | 383.81 | 6.88 | 1.3E–08 | 1.2E–10 | 1.0E–01 | 1.3E–07 | 1.2E–09 |
| Chloroform | 28334.3 | 12.18 | 9.7E–07 | 2.1E–10 | 1.0E–02 | 9.7E–05 | 2.1E–08 |
| 2–Butanone | 538283.82 | 37.64 | 1.8E–05 | 6.4E–10 | 5.0E–02 | 3.7E–04 | 1.3E–08 |
| Tetrachloroethene | 42.44 | 16.87 | 1.5E–09 | 2.9E–10 | 1.0E–02 | 1.5E–07 | 2.9E–08 |
| Toluene | 5099572.9 | 228.61 | 1.7E–04 | 3.9E–09 | 2.0E–01 | 8.7E–04 | 2.0E–08 |
| Ethylbenzene | 1501588.5 | 58.83 | 5.1E–05 | 1.0E–09 | 1.0E–01 | 5.1E–04 | 1.0E–08 |
| Xylenes (total) | 9633055.2 | 191.59 | 3.3E–04 | 3.3E–09 | 2.0E+00 | 1.6E–04 | 1.6E–09 |
| 4,4'–DDT | 245.31 | 66.55 | 8.4E–09 | 1.1E–09 | 5.0E–04 | 1.7E–05 | 2.3E–06 |
| | | | | | TOTAL: | 1.9E–02 | 8.1E–04 |

CDI = (Soil Concentration x IR x CF x FI x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 100 | 100 | IR = INGESTION RATE (mg soil/day) |
| 1.00E–06 | 1.00E–06 | CF = CONVERSION FACTOR (kg/mg) |
| 0.5 | 0.5 | FI = FRACTION INGESTED FROM CONTAMINATED SOURCE (unitless) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 2190 | 730 | AT = AVERAGING TIME (days) |

TABLE H-5
GM-LINDEN ROAD SITE
SITE TRESPASSER EXPOSURE
INGESTION OF CHEMICALS IN SOIL
CARCINOGENIC RISK
ADOLESCENT - CURRENT

| CONTAMINANTS | SOIL CONCENTRATION | | CHRONIC DAILY INTAKE (CDI) (mg/kg-day) | CHRONIC DAILY INTAKE (CDI) (mg/kg-day) | CANCER SLOPE FACTOR (CSF) (mg/kg-day)-1 | LIFETIME CANCER RISK (CDI x CSF) | LIFETIME CANCER RISK (CDI x CSF) |
|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | |
| Arsenic | 18.61 | 7.82 | 5.5E-08 | 3.8E-09 | 1.8E+00 | 9.6E-08 | 6.7E-09 |
| Beryllium | 1.43 | 0.74 | 4.2E-09 | 3.6E-10 | 4.3E+00 | 1.8E-08 | 1.6E-09 |
| Organics (µg/kg) | | | | | | | |
| Benz(a)Anthracene | 73330.17 | 4939.02 | 2.2E-07 | 2.4E-09 | 1.7E+00 | 3.6E-07 | 4.0E-09 |
| Chrysene | 78025.72 | 3576.15 | 2.3E-07 | 1.7E-09 | 5.1E-02 | 1.2E-08 | 8.9E-11 |
| bis(2-Ethylhexyl)Phthalate | 2284.82 | 699.01 | 6.7E-09 | 3.4E-10 | 1.4E-02 | 9.4E-11 | 4.8E-12 |
| Benzo(b)Fluoranthene | 84691.6 | 4634.27 | 2.5E-07 | 2.3E-09 | 1.6E+00 | 4.0E-07 | 3.7E-09 |
| Benzo(k)Fluoranthene | 39526.63 | 2867.72 | 1.2E-07 | 1.4E-09 | 7.6E-01 | 8.8E-08 | 1.1E-09 |
| Benzo(a)pyrene | 74687.87 | 4135.45 | 2.2E-07 | 2.0E-09 | 1.2E+01 | 2.5E-06 | 2.3E-08 |
| Indeno(1,2,3-cd)Pyrene | 63066.63 | 4153.27 | 1.9E-07 | 2.0E-09 | 2.7E+00 | 4.9E-07 | 5.4E-09 |
| Dibenz(a,h)Anthracene | 33036.96 | 2779.41 | 9.7E-08 | 1.4E-09 | 1.3E+01 | 1.2E-06 | 1.7E-08 |
| Methylene Chloride | 15864967 | 419.46 | 4.7E-05 | 2.1E-10 | 7.5E-03 | 3.5E-07 | 1.5E-12 |
| Chloroform | 28334.3 | 12.18 | 8.3E-08 | 6.0E-12 | 6.1E-03 | 5.1E-10 | 3.6E-14 |
| Trichloroethene | 14721.1 | 109.19 | 4.3E-08 | 5.3E-11 | 1.1E-02 | 4.8E-10 | 5.9E-13 |
| Benzene | 87.59 | 7.26 | 2.6E-10 | 3.6E-12 | 2.9E-02 | 7.5E-12 | 1.0E-13 |
| Tetrachloroethene | 42.44 | 16.87 | 1.2E-10 | 8.3E-12 | 5.1E-02 | 6.4E-12 | 4.2E-13 |
| 1,1,2,2-Tetrachloroethane | 46.42 | 11.13 | 1.4E-10 | 5.4E-12 | 2.0E-01 | 2.7E-11 | 1.1E-12 |
| alpha-BHC | 108.49 | 29.91 | 3.2E-10 | 1.5E-11 | 6.3E+00 | 2.0E-09 | 9.2E-11 |
| 4,4'-DDT | 245.31 | 66.55 | 7.2E-10 | 3.3E-11 | 3.4E-01 | 2.4E-10 | 1.1E-11 |
| Aroclor-1248 | 2603.03 | 458.45 | 7.6E-09 | 2.2E-10 | 7.7E+00 | 5.9E-08 | 1.7E-09 |
| Aroclor-1254 | 39590.47 | 3572.02 | 1.2E-07 | 1.7E-09 | 7.7E+00 | 8.9E-07 | 1.3E-08 |
| Aroclor-1260 | 2255.93 | 583.73 | 6.6E-09 | 2.9E-10 | 7.7E+00 | 5.1E-08 | 2.2E-09 |
| | | | | | TOTAL: | 6.6E-06 | 8.1E-08 |

CDI = (Soil Concentration x IR x CF x FI x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS MAXIMUM | AVERAGE | |
|---|---|---|
| 100 | 100 | IR = INGESTION RATE (mg soil/day) |
| 1.00E-06 | 1.00E-06 | CF = CONVERSION FACTOR (kg/mg) |
| 0.5 | 0.5 | FI = FRACTION INGESTED FROM CONTAMINATED SOURCE (unitless) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-6

GM – LINDEN ROAD SITE
SITE TRESPASSER EXPOSURE
DERMAL CONTACT WITH CHEMICALS IN SOIL
NON–CARCINOGENIC RISK
ADOLESCENT – CURRENT

| CONTAMINANTS | SOIL CONCENTRATION | | ABSORPTION FACTOR (ABS) (unitless) | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | REFERENCE DOSE (RfD) (mg/kg/day) | HAZARD INDEX (CDI/RfD) | HAZARD INDEX (CDI/RfD) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | |
| Mercury | 0.43 | 0.11 | 0.01 | 1.4E–08 | 8.5E–10 | 1.5E–04 | 9.6E–05 | 5.7E–06 |
| Organics (µg/kg) | | | | | | | | |
| 4–Methylphenol | 2624.06 | 902.5 | 0.01 | 8.8E–08 | 7.0E–09 | 2.5E–02 | 3.5E–06 | 2.8E–07 |
| Naphthalene | 56076.66 | 2192.99 | 0.01 | 1.9E–06 | 1.7E–08 | 2.0E–03 | 9.4E–04 | 8.5E–06 |
| Di–n–Butylphthalate | 4830.8 | 845.14 | 0.01 | 1.6E–07 | 6.5E–09 | 5.0E–02 | 3.2E–06 | 1.3E–07 |
| Fluoranthene | 102477.42 | 5162.72 | 0.01 | 3.4E–06 | 4.0E–08 | 2.0E–02 | 1.7E–04 | 2.0E–06 |
| Pyrene | 82936.64 | 4358.27 | 0.01 | 2.8E–06 | 3.4E–08 | 1.5E–02 | 1.9E–04 | 2.3E–06 |
| bis(2–Ethylhexyl)Phthalate | 2284.82 | 699.01 | 0.01 | 7.7E–08 | 5.4E–09 | 1.0E–02 | 7.7E–06 | 5.4E–07 |
| Methylene Chloride | 15864967 | 419.46 | 0.10 | 5.3E–03 | 3.2E–08 | 6.0E–02 | 8.9E–02 | 5.4E–07 |
| Acetone | 37077.71 | 149.81 | 0.10 | 1.2E–05 | 1.2E–08 | 1.0E–01 | 1.2E–04 | 1.2E–07 |
| Carbon Disulfide | 43.78 | 5.38 | 0.10 | 1.5E–08 | 4.2E–10 | 1.0E–01 | 1.5E–07 | 4.2E–09 |
| 1,1–Dichloroethane | 383.81 | 6.88 | 0.10 | 1.3E–07 | 5.3E–10 | 1.0E–01 | 1.3E–06 | 5.3E–09 |
| Chloroform | 28334.3 | 12.18 | 0.10 | 9.5E–06 | 9.4E–10 | 1.0E–02 | 9.5E–04 | 9.4E–08 |
| 2–Butanone | 538283.82 | 37.64 | 0.10 | 1.8E–04 | 2.9E–09 | 5.0E–02 | 3.6E–03 | 5.8E–08 |
| Tetrachloroethene | 42.44 | 16.87 | 0.10 | 1.4E–08 | 1.3E–09 | 1.0E–02 | 1.4E–06 | 1.3E–07 |
| Toluene | 5099572.9 | 228.61 | 0.10 | 1.7E–03 | 1.8E–08 | 2.0E–01 | 8.6E–03 | 8.9E–08 |
| Ethylbenzene | 1501588.5 | 58.83 | 0.10 | 5.0E–04 | 4.6E–09 | 1.0E–01 | 5.0E–03 | 4.6E–08 |
| Xylenes (total) | 9633055.2 | 191.59 | 0.10 | 3.2E–03 | 1.5E–08 | 2.0E+00 | 1.6E–03 | 7.4E–09 |
| 4,4'–DDT | 245.31 | 66.55 | 0.01 | 8.2E–09 | 5.2E–10 | 2.5E–04 | 3.3E–05 | 2.1E–06 |
| | | | | | | TOTAL: | 1.1E–01 | 2.3E–05 |

CDI = (Soil Conc. x CF x SA x AF x ABS x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 1.0E–06 | 1.0E–06 | CF = CONVERSION FACTOR (kg/mg) |
| 3380 | 1560 | SA = SKIN SURFACE AREA (cm2/day) |
| 1.45 | 1.45 | AF = ADHERENCE FACTOR (mg/cm2) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 2190 | 730 | AT = AVERAGING TIME (days) |

TABLE H-7

GM – LINDEN ROAD SITE
SITE TRESPASSER EXPOSURE
DERMAL CONTACT WITH CHEMICALS IN SOIL
CARCINOGENIC RISK
ADOLESCENT – CURRENT

| CONTAMINANTS | SOIL CONCENTRATION | | ABSORPTION FACTOR (ABS) (unitless) | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | CANCER SLOPE FACTOR (CSF) (mg/kg/day)-1 | LIFETIME CANCER RISK (CDIxCSF) | LIFETIME CANCER RISK (CDIxCSF) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RME | RAE |
| Organics (ug/kg) | | | | | | | | |
| Benz(a)Anthracene | 73330.17 | 4939.02 | 0.01 | 2.1E-07 | 1.1E-09 | 3.3E+00 | 7.0E-07 | 3.6E-09 |
| Chrysene | 78025.72 | 3576.15 | 0.01 | 2.2E-07 | 7.9E-10 | 1.0E-01 | 2.3E-08 | 8.0E-11 |
| bis(2-Ethylhexyl)Phthalate | 2284.82 | 699.01 | 0.01 | 6.6E-09 | 1.5E-10 | 2.8E-02 | 1.8E-10 | 4.3E-12 |
| Benzo(b)Fluoranthene | 84691.6 | 4634.27 | 0.01 | 2.4E-07 | 1.0E-09 | 3.2E+00 | 7.8E-07 | 3.3E-09 |
| Benzo(k)Fluoranthene | 39526.63 | 2867.72 | 0.01 | 1.1E-07 | 6.3E-10 | 1.5E+00 | 1.7E-07 | 9.6E-10 |
| Benzo(a)pyrene | 74687.87 | 4135.45 | 0.01 | 2.1E-07 | 9.2E-10 | 2.3E+01 | 4.9E-06 | 2.1E-08 |
| Indeno(1,2,3-cd)Pyrene | 63066.63 | 4153.27 | 0.01 | 1.8E-07 | 9.2E-10 | 5.3E+00 | 9.7E-07 | 4.9E-09 |
| Dibenz(a,h)Anthracene | 33036.96 | 2779.41 | 0.01 | 9.5E-08 | 6.2E-10 | 2.6E+01 | 2.4E-06 | 1.6E-08 |
| Methylene Chloride | 15864967 | 419.46 | 0.10 | 4.6E-04 | 9.3E-10 | 7.5E-03 | 3.4E-06 | 7.0E-12 |
| Chloroform | 28334.3 | 12.18 | 0.10 | 8.2E-07 | 2.7E-11 | 6.1E-03 | 5.0E-09 | 1.6E-13 |
| Trichloroethene | 14721.1 | 109.19 | 0.10 | 4.2E-07 | 2.4E-10 | 1.1E-02 | 4.7E-09 | 2.7E-12 |
| Benzene | 87.59 | 7.26 | 0.10 | 2.5E-09 | 1.6E-11 | 2.9E-02 | 7.3E-11 | 4.7E-13 |
| Tetrachloroethene | 42.44 | 16.87 | 0.10 | 1.2E-09 | 3.7E-11 | 5.1E-02 | 6.2E-11 | 1.9E-12 |
| 1,1,2,2-Tetrachloroethane | 46.42 | 11.13 | 0.10 | 1.3E-09 | 2.5E-11 | 2.0E-01 | 2.7E-10 | 4.9E-12 |
| alpha-BHC | 108.49 | 29.91 | 0.01 | 3.1E-10 | 6.6E-12 | 1.3E+01 | 3.9E-09 | 8.3E-11 |
| 4,4'-DDT | 245.31 | 66.55 | 0.01 | 7.1E-10 | 1.5E-11 | 6.8E-01 | 4.8E-10 | 1.0E-11 |
| Aroclor-1248 | 2603.03 | 458.45 | 0.01 | 7.5E-09 | 1.0E-10 | 1.5E+01 | 1.2E-07 | 1.6E-09 |
| Aroclor-1254 | 39590.47 | 3572.02 | 0.01 | 1.1E-07 | 7.9E-10 | 1.5E+01 | 1.8E-06 | 1.2E-08 |
| Aroclor-1260 | 2255.93 | 583.73 | 0.01 | 6.5E-09 | 1.3E-10 | 1.5E+01 | 1.0E-07 | 2.0E-09 |
| | | | | | | TOTAL : | 1.5E-05 | 6.5E-08 |

CDI = (Soil Conc. x CF x SA x AF x ABS x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 1.0E-06 | 1.0E-06 | CF = CONVERSION FACTOR (kg/mg) |
| 3380 | 1560 | SA = SKIN SURFACE AREA (cm2/day) |
| 1.45 | 1.45 | AF = ADHERENCE FACTOR (mg/cm2) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-8

GM – LINDEN ROAD SITE
SITE TRESPASSER EXPOSURE
INHALATION OF AIRBORNE (PARTICULATE PHASE) CHEMICALS
NON-CARCINOGENIC RISK
ADOLESCENT – CURRENT

| CONTAMINANTS | SOIL CONCENTRATION | | DUST CONCENTRATION (mg/m³) | AIR CONCENTRATION (mg/m³) | | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | REFERENCE CONCENTRATION (RfC) (mg/kg/day) | HAZARD INDEX (CDI/RfC) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | Reasonable Maximum Concentration | Representative Average Concentration | RME | | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | | | | |
| Arsenic | 16.61 | 7.62 | 0.026 | 4.84E-07 | 2.03E-07 | 1.3E-09 | | 1.4E-10 | 2.0E-04 | 6.5E-06 | 6.9E-07 |
| Barium | 316.16 | 126.90 | 0.026 | 8.27E-06 | 3.30E-06 | 2.2E-08 | | 2.2E-09 | 1.0E-04 | 2.2E-04 | 2.2E-05 |
| Beryllium | 1.43 | 0.74 | 0.026 | 3.72E-08 | 1.92E-08 | 1.0E-10 | | 1.3E-11 | 2.0E-06 | 5.0E-05 | 6.5E-06 |
| Cadmium | 6.48 | 0.88 | 0.026 | 1.68E-07 | 2.29E-08 | 4.5E-10 | | 1.5E-11 | 5.1E-05 | 8.9E-06 | 3.0E-07 |
| Chromium (III) | 983.763 | 111.069 | 0.026 | 2.56E-05 | 2.89E-06 | 6.9E-08 | | 1.9E-09 | 5.7E-07 | 1.2E-01 | 3.4E-03 |
| Chromium (VI) | 109.31 | 12.34 | 0.026 | 2.84E-06 | 3.21E-07 | 7.7E-09 | | 2.2E-10 | 5.7E-07 | 1.3E-02 | 3.8E-04 |
| Copper | 1956.70 | 68.02 | 0.026 | 5.09E-05 | 1.77E-06 | 1.4E-07 | | 1.2E-09 | 1.0E-03 | 1.4E-04 | 1.2E-06 |
| Manganese | 2744.29 | 491.93 | 0.026 | 7.14E-05 | 1.28E-05 | 1.9E-07 | | 8.6E-09 | 1.1E-04 | 1.8E-03 | 7.8E-05 |
| Mercury | 0.43 | 0.11 | 0.026 | 1.12E-08 | 2.86E-09 | 3.0E-11 | | 1.9E-12 | 8.6E-05 | 3.5E-07 | 2.2E-08 |
| Nickel | 392.39 | 96.90 | 0.026 | 1.02E-05 | 2.52E-06 | 2.8E-08 | | 1.7E-09 | 1.0E-03 | 2.8E-05 | 1.7E-06 |
| Selenium | 1.34 | 0.54 | 0.026 | 3.48E-08 | 1.40E-08 | 9.4E-11 | | 9.5E-12 | 2.0E-04 | 4.7E-07 | 4.7E-08 |
| Vanadium | 26.06 | 12.65 | 0.026 | 6.78E-07 | 3.29E-07 | 1.8E-09 | | 2.2E-10 | 5.1E-05 | 3.6E-05 | 4.4E-06 |
| Zinc | 501.46 | 90.14 | 0.026 | 1.30E-05 | 2.34E-06 | 3.5E-08 | | 1.6E-09 | 1.0E-02 | 3.5E-06 | 1.6E-07 |
| Cyanide | 19.26 | 0.81 | 0.026 | 5.01E-07 | 2.11E-08 | 1.4E-09 | | 1.4E-11 | 5.1E-03 | 2.8E-07 | 2.8E-09 |
| Organics (ug/kg) | | | | | | | | | | | |
| 4-Methylphenol | 2624.06 | 902.5 | 0.026 | 6.82E-08 | 2.35E-08 | 1.8E-10 | | 1.6E-11 | 2.2E-02 | 8.4E-09 | 7.2E-10 |
| Naphthalene | 56076.66 | 2192.99 | 0.026 | 1.46E-06 | 5.70E-08 | 3.9E-09 | | 3.8E-11 | 5.1E-02 | 7.7E-08 | 7.5E-10 |
| Di-n-Butylphthalate | 4830.8 | 845.14 | 0.026 | 1.26E-07 | 2.20E-08 | 3.4E-10 | | 1.5E-11 | 5.1E-03 | 6.6E-08 | 2.9E-09 |
| Fluoranthene | 102477.42 | 5162.72 | 0.026 | 2.66E-06 | 1.34E-07 | 7.2E-09 | | 9.1E-11 | 5.1E-02 | 1.4E-07 | 1.8E-09 |
| Pyrene | 82936.64 | 4358.27 | 0.026 | 2.16E-06 | 1.13E-07 | 5.8E-09 | | 7.6E-11 | 5.1E-02 | 1.1E-07 | 1.5E-09 |
| Methylene Chloride | 15864967 | 419.46 | 0.026 | 4.12E-04 | 1.09E-08 | 1.1E-06 | | 7.4E-12 | 9.0E-01 | 1.2E-06 | 8.2E-12 |
| Acetone | 37077.71 | 149.61 | 0.026 | 9.64E-07 | 3.90E-09 | 2.6E-09 | | 2.6E-12 | 1.8E+00 | 1.4E-09 | 1.5E-12 |
| Carbon Disulfide | 43.78 | 5.38 | 0.026 | 1.14E-09 | 1.40E-10 | 3.1E-12 | | 9.4E-14 | 2.9E-03 | 1.1E-09 | 3.3E-11 |
| 1,1-Dichloroethane | 383.61 | 6.88 | 0.026 | 9.98E-09 | 1.79E-10 | 2.7E-11 | | 1.2E-13 | 1.0E-01 | 2.7E-10 | 1.2E-12 |
| Chloroform | 28334.3 | 12.18 | 0.026 | 7.37E-07 | 3.17E-10 | 2.0E-09 | | 2.1E-13 | 5.1E-02 | 3.9E-08 | 4.2E-12 |
| 2-Butanone | 538283.82 | 37.64 | 0.026 | 1.40E-05 | 9.79E-10 | 3.8E-08 | | 6.6E-13 | 9.0E-02 | 4.2E-07 | 7.3E-12 |
| Tetrachloroethene | 42.44 | 16.87 | 0.026 | 1.10E-09 | 4.39E-10 | 3.0E-12 | | 3.0E-13 | 3.4E-01 | 8.8E-12 | 8.7E-13 |
| Toluene | 5099572.9 | 228.61 | 0.026 | 1.33E-04 | 5.94E-09 | 3.6E-07 | | 4.0E-12 | 5.7E-01 | 6.3E-07 | 7.0E-12 |
| Ethylbenzene | 1501588.5 | 58.83 | 0.026 | 3.90E-05 | 1.53E-09 | 1.1E-07 | | 1.0E-12 | 2.9E-01 | 3.8E-07 | 3.6E-12 |
| Xylenes (total) | 9633055.2 | 191.59 | 0.026 | 2.50E-04 | 4.98E-09 | 6.8E-07 | | 3.4E-12 | 8.6E-02 | 7.9E-06 | 3.9E-11 |
| 4,4'-DDT | 245.31 | 66.55 | 0.026 | 6.38E-09 | 1.73E-09 | 1.7E-11 | | 1.2E-12 | 1.0E-03 | 1.7E-08 | 1.2E-09 |
| | | | | | | | | | TOTAL: | 1.4E-01 | 3.9E-03 |

AIR CONCENTRATION = (Soil Concentration x CF x Dust Concentration)
CDI = (Air Concentration x IR x ET x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

EXPOSURE ASSUMPTIONS

| MAXIMUM | AVERAGE | |
|---|---|---|
| 1.97 | 1.97 | IR = INHALATION RATE (m³/hour) |
| 2 | 1 | ET = EXPOSURE TIME (hours/day) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 2190 | 730 | AT = AVERAGING TIME (days) |

TABLE H-9

**GM – LINDEN ROAD SITE**
**SITE TRESPASSER EXPOSURE**
**INHALATION OF AIRBORNE (PARTICULATE PHASE) CHEMICALS**
**CARCINOGENIC RISK**
**ADOLESCENT – CURRENT**

| CONTAMINANTS | SOIL CONCENTRATION | | DUST CONCENTRATION (mg/m³) | AIR CONCENTRATION (mg/m³) | | CHRONIC DAILY INTAKE (CDI) (mg/kg/day) | | CANCER SLOPE FACTOR (CSF) (mg/kg/day)⁻¹ | LIFETIME CANCER RISK (CDI x CSF) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | | | |
| Arsenic | 18.61 | 7.82 | 0.026 | 4.84E-07 | 2.03E-07 | 1.1E-10 | 3.9E-12 | 5.0E+01 | 5.6E-09 | 2.0E-10 |
| Beryllium | 1.43 | 0.74 | 0.026 | 3.72E-08 | 1.92E-08 | 8.6E-12 | 3.7E-13 | 8.4E+00 | 7.2E-11 | 3.1E-12 |
| Cadmium | 6.46 | 0.88 | 0.026 | 1.68E-07 | 2.29E-08 | 3.9E-11 | 4.4E-13 | 6.1E+00 | 2.4E-10 | 2.7E-12 |
| Chromium (VI) | 109.31 | 12.34 | 0.026 | 2.84E-06 | 3.21E-07 | 6.6E-10 | 6.2E-12 | 4.1E+01 | 2.7E-08 | 2.5E-10 |
| Nickel (subsulfide) | 392.39 | 96.90 | 0.026 | 1.02E-05 | 2.52E-06 | 2.4E-09 | 4.9E-11 | 1.7E+00 | 4.0E-09 | 8.3E-11 |
| Organics (µg/kg) | | | | | | | | | | |
| Benz(a)Anthracene | 73330.17 | 4939.02 | 0.026 | 1.91E-06 | 1.28E-07 | 4.4E-10 | 2.5E-12 | 8.8E-01 | 3.9E-10 | 2.2E-12 |
| Chrysene | 78025.72 | 3576.15 | 0.026 | 2.03E-06 | 9.30E-08 | 4.7E-10 | 1.8E-12 | 2.7E-02 | 1.3E-11 | 4.8E-14 |
| Benzo(b)Fluoranthene | 84691.6 | 4634.27 | 0.026 | 2.20E-06 | 1.20E-07 | 5.1E-10 | 2.3E-12 | 8.5E-01 | 4.3E-10 | 2.0E-12 |
| Benzo(k)Fluoranthene | 39526.63 | 2867.72 | 0.026 | 1.03E-06 | 7.46E-08 | 2.4E-10 | 1.4E-12 | 4.0E-01 | 9.6E-11 | 5.6E-13 |
| Benzo(a)pyrene | 74687.87 | 4135.45 | 0.026 | 1.94E-06 | 1.08E-07 | 4.5E-10 | 2.1E-12 | 6.1E+00 | 2.7E-09 | 1.3E-11 |
| Indeno(1,2,3-cd)Pyrene | 63066.63 | 4153.27 | 0.026 | 1.64E-06 | 1.08E-07 | 3.8E-10 | 2.1E-12 | 1.4E+00 | 5.4E-10 | 2.9E-12 |
| Dibenz(a,h)Anthracene | 33036.96 | 2779.41 | 0.026 | 8.59E-07 | 7.23E-08 | 2.0E-10 | 1.4E-12 | 6.8E+00 | 1.3E-09 | 9.4E-12 |
| Methylene Chloride | 15864967 | 419.46 | 0.026 | 4.12E-04 | 1.09E-08 | 9.5E-08 | 2.1E-13 | 1.6E-03 | 1.5E-10 | 3.4E-16 |
| Chloroform | 28334.3 | 12.18 | 0.026 | 7.37E-07 | 3.17E-10 | 1.7E-10 | 6.1E-15 | 8.1E-02 | 1.4E-11 | 4.9E-16 |
| Trichloroethene | 14721.1 | 109.19 | 0.026 | 3.83E-07 | 2.84E-09 | 8.9E-11 | 5.5E-14 | 1.7E-02 | 1.5E-12 | 9.3E-16 |
| Benzene | 87.59 | 7.26 | 0.026 | 2.28E-09 | 1.89E-10 | 5.3E-13 | 3.6E-15 | 2.9E-02 | 1.5E-14 | 1.1E-16 |
| Tetrachloroethene | 42.44 | 16.87 | 0.026 | 1.10E-09 | 4.39E-10 | 2.6E-13 | 8.5E-15 | 1.8E-03 | 4.6E-16 | 1.5E-17 |
| 1,1,2,2-Tetrachloroethane | 46.42 | 11.13 | 0.026 | 1.21E-09 | 2.89E-10 | 2.8E-13 | 5.6E-15 | 2.0E-01 | 5.6E-14 | 1.1E-15 |
| alpha-BHC | 108.49 | 29.91 | 0.026 | 2.82E-09 | 7.78E-10 | 6.5E-13 | 1.5E-14 | 6.3E+00 | 4.1E-12 | 9.4E-14 |
| 4,4'-DDT | 245.31 | 66.55 | 0.026 | 6.38E-09 | 1.73E-09 | 1.5E-12 | 3.3E-14 | 3.0E-01 | 4.4E-13 | 1.0E-14 |
| | | | | | | | | TOTAL: | 4.3E-08 | 5.7E-10 |

AIR CONCENTRATION = (Soil Concentration x CF x Dust Concentration)
CDI = (Air Concentration x IR x ET x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 1.97 | 1.97 | IR = INHALATION RATE (m³/hour) |
| 2 | 1 | ET = EXPOSURE TIME (hours/day) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-10

**GM – LINDEN ROAD SITE**
**ON–SITE TRESPASSER EXPOSURE:**
**DERMAL CONTACT WITH CHEMICALS IN SURFACE WATER**
**NON– CARCINOGENIC RISK**
**ADOLESCENT – CURRENT**

| CONTAMINANTS | WATER CONCENTRATION (µg/L) | | PERMEABILITY CONSTANT (PC) (cm/hr) | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | REFERENCE DOSE (RfD) (mg/kg–day) | HAZARD INDEX (CDI / RfD) | HAZARD INDEX (CDI / RfD) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RME | RAE |
| Organics | | | | | | | | |
| Carbon Disulfide | 45.39 | 9.35 | 5.50E–02 | 1.2E–09 | 2.4E–10 | 1.0E–01 | 1.2E–08 | 2.4E–09 |
| 4–Methylphenol | 13 | 13 | 1.75E–01 | 1.1E–09 | 1.1E–09 | 2.5E–02 | 4.2E–08 | 4.2E–08 |
| bis(2–Ethylhexyl)phthalate | 3 | 3 | 8.00E–04 | 1.1E–12 | 1.1E–12 | 1.0E–02 | 1.1E–10 | 1.1E–10 |
| Naphthalene | 2 | 2 | 8.00E–04 | 7.4E–13 | 7.4E–13 | 2.0E–03 | 3.7E–10 | 3.7E–10 |
| | | | | | | TOTAL: | 5.4E–08 | 4.5E–08 |

CDI = (Water Concentration x SA x PC X ET x EF x ED x CF x VF) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 3380 | 1560 | SA = SKIN SURFACE AREA ($cm^2$) |
| 0.2 | 0.1 | ET = EXPOSURE TIME (hours/day) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 0.001 | 0.001 | CF = CONVERSION FACTOR (mg/µg) |
| 0.001 | 0.001 | VF = VOLUMETRIC CONVERSION FACTOR ($L/cm^3$) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 2190 | 730 | AT = AVERAGING TIME (days) |

TABLE H-11

**GM – LINDEN ROAD SITE**
**ON–SITE TRESPASSER EXPOSURE:**
**DERMAL CONTACT WITH CHEMICALS IN SURFACE WATER**
**CARCINOGENIC RISK**
**ADOLESCENT – CURRENT**

| CONTAMINANTS | WATER CONCENTRATION (µg/L) | | PERMEABILITY CONSTANT (PC) (cm/hr) | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | CHRONIC DAILY INTAKE (CDI) (mg/kg–day) | CANCER SLOPE FACTOR (CSF) (mg/kg–day)–1 | LIFETIME CANCER RISK (CDI x CSF) | LIFETIME CANCER RISK (CDI x CSF) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RME | RAE |
| Organics | | | | | | | | |
| bis(2–Chloroethyl)ether | 5 | 5 | 8.00E–04 | 1.6E–13 | 6.1E–15 | 1.1E+00 | 1.7E–13 | 6.7E–15 |
| bis(2–Ethylhexyl)phthalate | 3 | 3 | 8.00E–04 | 9.5E–14 | 3.7E–15 | 2.8E–02 | 2.7E–15 | 1.0E–16 |
| alpha–BHC | 0.01 | 0.01 | 6.20E–04 | 2.5E–16 | 9.5E–18 | 1.3E+01 | 3.2E–15 | 1.2E–16 |
| | | | | | | TOTAL: | 1.8E–13 | 6.9E–15 |

CDI = (Water Concentration x SA x PC X ET x EF x ED x CF x VF) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 3380 | 1560 | SA = SKIN SURFACE AREA ($cm^2$) |
| 0.2 | 0.1 | ET = EXPOSURE TIME (hours/day) |
| 12 | 6 | EF = EXPOSURE FREQUENCY (days/year) |
| 6 | 2 | ED = EXPOSURE DURATION (years) |
| 0.001 | 0.001 | CF = CONVERSION FACTOR (mg/µg) |
| 0.001 | 0.001 | VF = VOLUMETRIC CONVERSION FACTOR ($L/cm^3$) |
| 48 | 48 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-12

GM – LINDEN ROAD SITE
SHORT–TERM SITE WORKER EXPOSURE
INGESTION OF CHEMICALS IN SOIL
NON–CARCINOGENIC RISK
ADULT – FUTURE

| CONTAMINANTS | SOIL CONCENTRATION | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC REFERENCE DOSE (RfD) (mg/kg/day) | HAZARD INDEX (SDI/RfD) | HAZARD INDEX (SDI/RfD) |
|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | |
| Antimony | 175.45 | 28.41 | 1.7E–04 | 1.4E–05 | 4.0E–04 | 4.3E–01 | 3.5E–02 |
| Arsenic | 26.67 | 13.29 | 2.6E–05 | 6.5E–06 | 3.0E–04 | 8.7E–02 | 2.2E–02 |
| Barium | 1053.08 | 312.67 | 1.0E–03 | 1.5E–04 | 5.0E–02 | 2.1E–02 | 3.1E–03 |
| Beryllium | 1.3 | 0.83 | 1.3E–06 | 4.1E–07 | 5.0E–03 | 2.5E–04 | 8.1E–05 |
| Cadmium (food) | 7.26 | 1.45 | 7.1E–06 | 7.1E–07 | 1.0E–03 | 7.1E–03 | 7.1E–04 |
| Chromium (III) | 2224.17 | 181.917 | 2.2E–03 | 8.9E–05 | 1.0E+01 | 2.2E–04 | 8.9E–06 |
| Chromium (VI) | 247.13 | 20.21 | 2.4E–04 | 9.9E–06 | 2.0E–02 | 1.2E–02 | 4.9E–04 |
| Copper | 940.15 | 159.61 | 9.2E–04 | 7.8E–05 | 4.0E–02 | 2.3E–02 | 2.0E–03 |
| Manganese | 2267.90 | 915.33 | 2.2E–03 | 4.5E–04 | 1.0E–01 | 2.2E–02 | 4.5E–03 |
| Mercury | 0.51 | 0.21 | 5.0E–07 | 1.0E–07 | 3.0E–04 | 1.7E–03 | 3.4E–04 |
| Nickel | 905.12 | 183.32 | 8.9E–04 | 9.0E–05 | 2.0E–02 | 4.4E–02 | 4.5E–03 |
| Selenium | 4.18 | 0.72 | 4.1E–06 | 3.5E–07 | 3.0E–03 | 1.4E–03 | 1.2E–04 |
| Thallium | 0.49 | 0.41 | 4.8E–07 | 2.0E–07 | 7.0E–04 | 6.8E–04 | 2.9E–04 |
| Vanadium | 50.38 | 22.66 | 4.9E–05 | 1.1E–05 | 7.0E–03 | 7.0E–03 | 1.6E–03 |
| Zinc | 827.93 | 221.19 | 8.1E–04 | 1.1E–04 | 2.0E–01 | 4.1E–03 | 5.4E–04 |
| Cyanide | 6.22 | 0.64 | 6.1E–06 | 3.1E–07 | 2.0E–02 | 3.0E–04 | 1.6E–05 |
| Organics (ug/kg) | | | | | | | |
| 4–Methylphenol | 1746.37 | 383.22 | 1.7E–06 | 1.9E–07 | 5.0E–01 | 3.4E–06 | 3.7E–07 |
| 1,2,4–Trichlorobenzene | 12050.23 | 1166.48 | 1.2E–05 | 5.7E–07 | 1.3E–02 | 9.1E–04 | 4.4E–05 |
| Naphthalene | 51832.91 | 2039.43 | 5.1E–05 | 1.0E–06 | 4.0E–02 | 1.3E–03 | 2.5E–05 |
| Di–n–Butylphthalate | 387444.83 | 2146.74 | 3.8E–04 | 1.1E–06 | 1.0E+00 | 3.8E–04 | 1.1E–06 |
| Fluoranthene | 38255.03 | 4065.8 | 3.7E–05 | 2.0E–06 | 4.0E–01 | 9.4E–05 | 5.0E–06 |
| Pyrene | 39493.31 | 5019.38 | 3.9E–05 | 2.5E–06 | 3.0E–01 | 1.3E–04 | 8.2E–06 |
| bis(2–Ethylhexyl)Phthalate | 6523.18 | 866.32 | 6.4E–06 | 4.2E–07 | 2.0E–02 | 3.2E–04 | 2.1E–05 |
| Methylene Chloride | 4343265.1 | 140.27 | 4.2E–03 | 6.9E–08 | 6.0E–02 | 7.1E–02 | 1.1E–06 |
| Acetone | 10681.25 | 132.9 | 1.0E–05 | 6.5E–08 | 1.0E+00 | 1.0E–05 | 6.5E–08 |
| Carbon Disulfide | 16.48 | 4.29 | 1.6E–08 | 2.1E–09 | 1.0E–01 | 1.6E–07 | 2.1E–08 |
| 1,1–Dichloroethane | 120.5 | 5.59 | 1.2E–07 | 2.7E–09 | 1.0E+00 | 1.2E–07 | 2.7E–09 |
| Chloroform | 7840.22 | 7.57 | 7.7E–06 | 3.7E–09 | 1.0E–02 | 7.7E–04 | 3.7E–07 |
| 2–Butanone | 147392.81 | 20.07 | 1.4E–04 | 9.8E–09 | 5.0E–01 | 2.9E–04 | 2.0E–08 |
| Tetrachloroethene | 21.08 | 7.03 | 2.1E–08 | 3.4E–09 | 1.0E–01 | 2.1E–07 | 3.4E–08 |
| Toluene | 1406575.4 | 85.15 | 1.4E–03 | 4.2E–08 | 2.0E+00 | 6.9E–04 | 2.1E–08 |
| Ethylbenzene | 418996.88 | 32.61 | 4.1E–04 | 1.6E–08 | 1.0E+00 | 4.1E–04 | 1.6E–08 |
| Xylenes (total) | 2660266.8 | 113.94 | 2.6E–03 | 5.6E–08 | 4.0E+00 | 6.5E–04 | 1.4E–08 |
| 4,4'–DDT | 160.15 | 29.62 | 1.6E–07 | 1.4E–08 | 5.0E–04 | 3.1E–04 | 2.9E–05 |
| | | | | | TOTAL: | 7.4E–01 | 7.5E–02 |

CDI = (Soil Concentration x IR x CF x FI x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 200 | 100 | IR = INGESTION RATE (mg soil/day) |
| 1.00E–06 | 1.00E–06 | CF = CONVERSION FACTOR (kg/mg) |
| 1.0 | 1.0 | FI = FRACTION INGESTED FROM CONTAMINATED SOURCE (unitless) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 730 | 365 | AT = AVERAGING TIME (days) |

TABLE H-13

GM–LINDEN ROAD SITE
SHORT–TERM SITE WORKER EXPOSURE
INGESTION OF CHEMICALS IN SOIL
CARCINOGENIC RISK
ADULT – FUTURE

| CONTAMINANTS | SOIL CONCENTRATION | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | CANCER SLOPE FACTOR (CSF) (mg/kg/day)–1 | LIFETIME CANCER RISK (SDI x CSF) | LIFETIME CANCER RISK (SDI x CSF) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | RME | | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | |
| Arsenic | 26.67 | 13.29 | 7.5E–07 | | 9.3E–08 | 1.8E+00 | 1.3E–06 | 1.6E–07 |
| Beryllium | 1.3 | 0.83 | 3.6E–08 | | 5.8E–09 | 4.3E+00 | 1.6E–07 | 2.5E–08 |
| Organics (µg/kg) | | | | | | | | |
| Benz(a)Anthracene | 27524.95 | 3009.04 | 7.7E–07 | | 2.1E–08 | 1.7E+00 | 1.3E–06 | 3.5E–08 |
| Chrysene | 27957.59 | 2570.65 | 7.8E–07 | | 1.8E–08 | 5.1E–02 | 4.0E–08 | 9.1E–10 |
| bis(2–Ethylhexyl)Phthalate | 6523.18 | 866.32 | 1.8E–07 | | 6.1E–09 | 1.4E–02 | 2.6E–09 | 8.5E–11 |
| Benzo(b)Fluoranthene | 28515.8 | 2524.25 | 8.0E–07 | | 1.8E–08 | 1.6E+00 | 1.3E–06 | 2.8E–08 |
| Benzo(k)Fluoranthene | 17282.13 | 1982.53 | 4.8E–07 | | 1.4E–08 | 7.6E–01 | 3.7E–07 | 1.1E–08 |
| Benzo(a)pyrene | 25296.74 | 2282.93 | 7.1E–07 | | 1.6E–08 | 1.2E+01 | 8.1E–06 | 1.8E–07 |
| Indeno(1,2,3–cd)Pyrene | 22741.64 | 2384.27 | 6.4E–07 | | 1.7E–08 | 2.7E+00 | 1.7E–06 | 4.5E–08 |
| Dibenz(a,h)Anthracene | 14319.49 | 1689.69 | 4.0E–07 | | 1.2E–08 | 1.3E+01 | 5.1E–06 | 1.5E–07 |
| Methylene Chloride | 4343265.1 | 140.27 | 1.2E–04 | | 9.8E–10 | 7.5E–03 | 9.1E–07 | 7.4E–12 |
| Chloroform | 7840.22 | 7.57 | 2.2E–07 | | 5.3E–11 | 6.1E–03 | 1.3E–09 | 3.2E–13 |
| Trichloroethene | 4661.23 | 35.48 | 1.3E–07 | | 2.5E–10 | 1.1E–02 | 1.4E–09 | 2.7E–12 |
| Benzene | 3320.02 | 8.09 | 9.3E–08 | | 5.7E–11 | 2.9E–02 | 2.7E–09 | 1.6E–12 |
| Tetrachloroethene | 21.08 | 7.03 | 5.9E–10 | | 4.9E–11 | 5.1E–02 | 3.0E–11 | 2.5E–12 |
| 1,1,2,2–Tetrachloroethane | 20.85 | 6.49 | 5.8E–10 | | 4.5E–11 | 2.0E–01 | 1.2E–10 | 9.1E–12 |
| alpha–BHC | 117.54 | 29.51 | 3.3E–09 | | 2.1E–10 | 6.3E+00 | 2.1E–08 | 1.3E–09 |
| 4,4'–DDT | 160.15 | 29.62 | 4.5E–09 | | 2.1E–10 | 3.4E–01 | 1.5E–09 | 7.0E–11 |
| Aroclor–1248 | 1385.33 | 230.36 | 3.9E–08 | | 1.6E–09 | 7.7E+00 | 3.0E–07 | 1.2E–08 |
| Aroclor–1254 | 21929.74 | 3139.51 | 6.1E–07 | | 2.2E–08 | 7.7E+00 | 4.7E–06 | 1.7E–07 |
| Aroclor–1260 | 1150.11 | 158.32 | 3.2E–08 | | 1.1E–09 | 7.7E+00 | 2.5E–07 | 8.5E–09 |
| | | | | | | TOTAL: | 2.6E–05 | 8.3E–07 |

CDI = (Soil Concentration x IR x CF x FI x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 200 | 100 | IR = INGESTION RATE (mg soil/day) |
| 1.00E–06 | 1.00E–06 | CF = CONVERSION FACTOR (kg/mg) |
| 1.0 | 1.0 | FI = FRACTION INGESTED FROM CONTAMINATED SOURCE (unitless) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-14

GM – LINDEN ROAD SITE
SHORT–TERM SITE WORKER EXPOSURE
DERMAL CONTACT WITH CHEMICALS IN SOIL
NON–CARCINOGENIC RISK
ADULT – FUTURE

| CONTAMINANTS | SOIL CONCENTRATION | | ABSORPTION FACTOR (ABS) (unitless) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC REFERENCE DOSE (RfD) (mg/kg/day) | HAZARD INDEX (SDI/RfD) | HAZARD INDEX (SDI/RfD) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | |
| Mercury | 0.51 | 0.21 | 0.01 | 1.4E–07 | 2.8E–08 | 1.5E–04 | 9.3E–04 | 1.9E–04 |
| Organics (µg/kg) | | | | | | | | |
| 4–Methylphenol | 1746.37 | 383.22 | 0.01 | 4.8E–07 | 5.1E–08 | 2.5E–01 | 1.9E–06 | 2.0E–07 |
| 1,2,4–Trichlorobenzene | 12050.23 | 1166.48 | 0.01 | 3.3E–06 | 1.5E–07 | 6.5E–03 | 5.1E–04 | 2.4E–05 |
| Naphthalene | 51832.91 | 2039.43 | 0.01 | 1.4E–05 | 2.7E–07 | 2.0E–02 | 7.1E–04 | 1.3E–05 |
| Di–n–Butylphthalate | 387444.83 | 2146.74 | 0.01 | 1.1E–04 | 2.8E–07 | 5.0E–01 | 2.1E–04 | 5.7E–07 |
| Fluoranthene | 38255.03 | 4065.8 | 0.01 | 1.1E–05 | 5.4E–07 | 2.0E–01 | 5.3E–05 | 2.7E–06 |
| Pyrene | 39493.31 | 5019.38 | 0.01 | 1.1E–05 | 6.6E–07 | 1.5E–01 | 7.2E–05 | 4.4E–06 |
| bis(2–Ethylhexyl)Phthalate | 6523.18 | 866.32 | 0.01 | 1.8E–06 | 1.1E–07 | 1.0E–02 | 1.8E–04 | 1.1E–05 |
| Methylene Chloride | 4343265.1 | 140.27 | 0.10 | 1.2E–02 | 1.9E–07 | 3.0E–02 | 4.0E–01 | 6.2E–06 |
| Acetone | 10681.25 | 132.9 | 0.10 | 2.9E–05 | 1.8E–07 | 1.0E+00 | 2.9E–05 | 1.8E–07 |
| Carbon Disulfide | 16.48 | 4.29 | 0.10 | 4.5E–08 | 5.7E–09 | 1.0E–01 | 4.5E–07 | 5.7E–08 |
| 1,1–Dichloroethane | 120.5 | 5.59 | 0.10 | 3.3E–07 | 7.4E–09 | 1.0E+00 | 3.3E–07 | 7.4E–09 |
| Chloroform | 7840.22 | 7.57 | 0.10 | 2.2E–05 | 1.0E–08 | 1.0E–02 | 2.2E–03 | 1.0E–06 |
| 2–Butanone | 147392.81 | 20.07 | 0.10 | 4.0E–04 | 2.7E–08 | 5.0E–01 | 8.1E–04 | 5.3E–08 |
| Tetrachloroethene | 21.08 | 7.03 | 0.10 | 5.8E–08 | 9.3E–09 | 1.0E–01 | 5.8E–07 | 9.3E–08 |
| Toluene | 1406575.4 | 85.15 | 0.10 | 3.9E–03 | 1.1E–07 | 2.0E+00 | 1.9E–03 | 5.6E–08 |
| Ethylbenzene | 418996.88 | 32.61 | 0.10 | 1.2E–03 | 4.3E–08 | 1.0E+00 | 1.2E–03 | 4.3E–08 |
| Xylenes (total) | 2660266.8 | 113.94 | 0.10 | 7.3E–03 | 1.5E–07 | 4.0E+00 | 1.8E–03 | 3.8E–08 |
| 4,4'–DDT | 160.15 | 29.62 | 0.01 | 4.4E–08 | 3.9E–09 | 2.5E–04 | 1.8E–04 | 1.6E–05 |
| | | | | | | TOTAL: | 4.1E–01 | 2.7E–04 |

CDI = (Soil Conc. x CF x SA x AF x ABS x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 1.0E–06 | 1.0E–06 | CF = CONVERSION FACTOR (kg/mg) |
| 3870 | 1865 | SA = SKIN SURFACE AREA (cm2/day) |
| 1.45 | 1.45 | AF = ADHERENCE FACTOR (mg/cm2) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 730 | 365 | AT = AVERAGING TIME (days) |

TABLE H-15

**GM – LINDEN ROAD SITE**
**SHORT-TERM SITE WORKER EXPOSURE**
**DERMAL CONTACT WITH CHEMICALS IN SOIL**
**CARCINOGENIC RISK**
**ADULT – FUTURE**

| CONTAMINANTS | SOIL CONCENTRATION | | ABSORPTION FACTOR (ABS) (unitless) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | CANCER SLOPE FACTOR (CSF) (mg/kg/day)-1 | LIFETIME CANCER RISK (SDI x CSF) | LIFETIME CANCER RISK (SDI x CSF) |
|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | RAE | RAE |
| Organics (ug/kg) | | | | | | | | |
| Benz(a)Anthracene | 27524.95 | 3009.04 | 0.01 | 2.2E-07 | 5.7E-09 | 3.3E+00 | 7.2E-07 | 1.9E-08 |
| Chrysene | 27957.59 | 2570.65 | 0.01 | 2.2E-07 | 4.9E-09 | 1.0E-01 | 2.2E-08 | 4.9E-10 |
| bis(2-Ethylhexyl)Phthalate | 6523.18 | 866.32 | 0.01 | 5.1E-08 | 1.6E-09 | 2.8E-02 | 1.4E-09 | 4.6E-11 |
| Benzo(b)Fluoranthene | 28515.8 | 2524.25 | 0.01 | 2.2E-07 | 4.8E-09 | 3.2E+00 | 7.2E-07 | 1.5E-08 |
| Benzo(k)Fluoranthene | 17282.13 | 1982.53 | 0.01 | 1.4E-07 | 3.7E-09 | 1.5E+00 | 2.1E-07 | 5.7E-09 |
| Benzo(a)pyrene | 25296.74 | 2282.93 | 0.01 | 2.0E-07 | 4.3E-09 | 2.3E+01 | 4.6E-06 | 9.9E-08 |
| Indeno(1,2,3-cd)Pyrene | 22741.64 | 2384.27 | 0.01 | 1.8E-07 | 4.5E-09 | 5.3E+00 | 9.5E-07 | 2.4E-08 |
| Dibenz(a,h)Anthracene | 14319.49 | 1689.69 | 0.01 | 1.1E-07 | 3.2E-09 | 2.6E+01 | 2.9E-06 | 8.2E-08 |
| Methylene Chloride | 4343265.1 | 140.27 | 0.10 | 3.4E-04 | 2.7E-09 | 7.5E-03 | 2.6E-06 | 2.0E-11 |
| Chloroform | 7840.22 | 7.57 | 0.10 | 6.1E-07 | 1.4E-10 | 6.1E-03 | 3.8E-09 | 8.7E-13 |
| Trichloroethene | 4661.23 | 35.48 | 0.10 | 3.7E-07 | 6.7E-10 | 1.1E-02 | 4.0E-09 | 7.4E-12 |
| Benzene | 3320.02 | 8.09 | 0.10 | 2.6E-07 | 1.5E-10 | 2.9E-02 | 7.6E-09 | 4.4E-12 |
| Tetrachloroethene | 21.08 | 7.03 | 0.10 | 1.7E-09 | 1.3E-10 | 5.1E-02 | 8.4E-11 | 6.8E-12 |
| 1,1,2,2-Tetrachloroethane | 20.85 | 6.49 | 0.10 | 1.6E-09 | 1.2E-10 | 2.0E-01 | 3.3E-10 | 2.5E-11 |
| alpha-BHC | 117.54 | 29.51 | 0.01 | 9.2E-10 | 5.6E-11 | 1.3E+01 | 1.2E-08 | 7.0E-10 |
| 4,4'-DDT | 160.15 | 29.62 | 0.01 | 1.3E-09 | 5.6E-11 | 6.8E-01 | 8.5E-10 | 3.8E-11 |
| Aroclor-1248 | 1385.33 | 230.36 | 0.01 | 1.1E-08 | 4.4E-10 | 1.5E+01 | 1.7E-07 | 6.7E-09 |
| Aroclor-1254 | 21929.74 | 3139.51 | 0.01 | 1.7E-07 | 5.9E-09 | 1.5E+01 | 2.6E-06 | 9.1E-08 |
| Aroclor-1260 | 1150.11 | 158.32 | 0.01 | 9.0E-09 | 3.0E-10 | 1.5E+01 | 1.4E-07 | 4.6E-09 |
| | | | | | | TOTAL : | 1.6E-05 | 3.5E-07 |

CDI = (Soil Conc. x CF x SA x AF x ABS x EF x ED) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 1.0E-06 | 1.0E-06 | CF = CONVERSION FACTOR (kg/mg) |
| 3870 | 1865 | SA = SKIN SURFACE AREA (cm2/day) |
| 1.45 | 1.45 | AF = ADHERENCE FACTOR (mg/cm2) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

# TABLE H-16
## GM - LINDEN ROAD SITE
## SHORT-TERM SITE WORKER EXPOSURE
## INHALATION OF AIRBORNE (PARTICULATE PHASE) CHEMICALS
## NON-CARCINOGENIC RISK
## ADULT - FUTURE

| CONTAMINANTS | SOIL CONCENTRATION | | DUST CONCENTRATION (mg/m³) | AIR CONCENTRATION (mg/m³) | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | REFERENCE CONCENTRATION (Subchronic) (RfC) (mg/kg/day) | HAZARD INDEX (SDI/RfC) | HAZARD INDEX (SDI/RfC) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | | | |
| Antimony | 175.45 | 28.41 | 0.11 | 1.93E-05 | 3.13E-06 | 1.9E-06 | 2.5E-07 | 5.1E-04 | 3.7E-03 | 4.8E-04 |
| Arsenic | 26.67 | 13.29 | 0.11 | 2.93E-06 | 1.46E-06 | 2.9E-07 | 1.2E-07 | 2.0E-04 | 1.4E-03 | 5.8E-04 |
| Barium | 1053.08 | 312.67 | 0.11 | 1.16E-04 | 3.44E-05 | 1.1E-05 | 2.7E-06 | 1.0E-03 | 1.1E-02 | 2.7E-03 |
| Beryllium | 1.3 | 0.83 | 0.11 | 1.43E-07 | 9.13E-08 | 1.4E-08 | 7.2E-09 | 2.0E-06 | 7.1E-03 | 3.6E-03 |
| Cadmium | 7.26 | 1.45 | 0.11 | 7.99E-07 | 1.60E-07 | 7.9E-08 | 1.3E-08 | 5.1E-05 | 1.5E-03 | 2.5E-04 |
| Chromium (III) | 2224.17 | 181.92 | 0.11 | 2.45E-04 | 2.00E-05 | 2.4E-05 | 1.6E-06 | 5.7E-06 | 4.2E+00 | 2.8E-01 |
| Chromium (VI) | 247.13 | 20.21 | 0.11 | 2.72E-05 | 2.22E-06 | 2.7E-06 | 1.8E-07 | 5.7E-06 | 4.7E-01 | 3.1E-02 |
| Copper | 940.15 | 159.61 | 0.11 | 1.03E-04 | 1.76E-05 | 1.0E-05 | 1.4E-06 | 1.0E-03 | 1.0E-02 | 1.4E-03 |
| Manganese | 2267.90 | 915.33 | 0.11 | 2.49E-04 | 1.01E-04 | 2.5E-05 | 8.0E-06 | 1.1E-04 | 2.2E-01 | 7.2E-02 |
| Mercury | 0.51 | 0.21 | 0.11 | 5.61E-08 | 2.31E-08 | 5.5E-09 | 1.8E-09 | 8.6E-05 | 6.4E-05 | 2.1E-05 |
| Nickel | 905.12 | 183.32 | 0.11 | 9.96E-05 | 2.02E-05 | 9.8E-06 | 1.6E-06 | 1.0E-03 | 9.8E-03 | 1.6E-03 |
| Selenium | 4.18 | 0.72 | 0.11 | 4.60E-07 | 7.92E-08 | 4.5E-08 | 6.3E-09 | 2.0E-04 | 2.3E-04 | 3.1E-05 |
| Thallium | 0.49 | 0.41 | 0.11 | 5.39E-08 | 4.51E-08 | 5.3E-09 | 3.6E-09 | 1.0E-04 | 5.3E-05 | 3.6E-05 |
| Vanadium | 50.38 | 22.66 | 0.11 | 5.54E-06 | 2.49E-06 | 5.5E-07 | 2.0E-07 | 5.1E-05 | 1.1E-02 | 3.9E-03 |
| Zinc | 827.93 | 221.19 | 0.11 | 9.11E-05 | 2.43E-05 | 9.0E-06 | 1.9E-06 | 1.0E-02 | 9.0E-04 | 1.9E-04 |
| Cyanide | 6.22 | 0.64 | 0.11 | 6.84E-07 | 7.04E-08 | 6.8E-08 | 5.6E-09 | 5.1E-03 | 1.3E-05 | 1.1E-06 |
| Organics (µg/kg) | | | | | | | | | | |
| 4-Methylphenol | 1746.37 | 383.22 | 0.11 | 1.92E-07 | 4.22E-08 | 1.9E-08 | 3.3E-09 | 2.2E-02 | 8.6E-07 | 1.5E-07 |
| Naphthalene | 51832.91 | 2039.43 | 0.11 | 5.70E-06 | 2.24E-07 | 5.6E-07 | 1.8E-08 | 5.1E-02 | 1.1E-05 | 3.5E-07 |
| Di-n-Butylphthalate | 387444.83 | 2146.74 | 0.11 | 4.26E-05 | 2.36E-07 | 4.2E-06 | 1.9E-08 | 5.1E-03 | 8.3E-04 | 3.7E-06 |
| Fluoranthene | 38255.03 | 4065.8 | 0.11 | 4.21E-06 | 4.47E-07 | 4.2E-07 | 3.5E-08 | 5.1E-02 | 8.2E-06 | 6.9E-07 |
| Pyrene | 39493.31 | 5019.38 | 0.11 | 4.34E-06 | 5.52E-07 | 4.3E-07 | 4.4E-08 | 5.1E-02 | 8.4E-06 | 8.6E-07 |
| Methylene Chloride | 4343265.1 | 140.27 | 0.11 | 4.78E-04 | 1.54E-08 | 4.7E-05 | 1.2E-09 | 8.6E-01 | 5.5E-05 | 1.4E-09 |
| Acetone | 10681.25 | 132.9 | 0.11 | 1.17E-06 | 1.46E-08 | 1.2E-07 | 1.2E-09 | 1.8E+00 | 6.5E-08 | 6.4E-10 |
| Carbon Disulfide | 16.48 | 4.29 | 0.11 | 1.81E-09 | 4.72E-10 | 1.8E-10 | 3.7E-11 | 2.9E-03 | 6.2E-08 | 1.3E-08 |
| 1,1-Dichloroethane | 120.5 | 5.59 | 0.11 | 1.33E-08 | 6.15E-10 | 1.3E-09 | 4.9E-11 | 1.0E+00 | 1.3E-09 | 4.9E-11 |
| Chloroform | 7840.22 | 7.57 | 0.11 | 8.62E-07 | 8.33E-10 | 8.5E-08 | 6.6E-11 | 5.1E-02 | 1.7E-06 | 1.3E-09 |
| 2-Butanone | 147392.81 | 20.07 | 0.11 | 1.62E-05 | 2.21E-09 | 1.6E-06 | 1.7E-10 | 9.0E-01 | 1.8E-06 | 1.9E-10 |
| Tetrachloroethene | 21.08 | 7.03 | 0.11 | 2.32E-09 | 7.73E-10 | 2.3E-10 | 6.1E-11 | 3.4E-01 | 6.7E-10 | 1.8E-10 |
| Toluene | 1406575.4 | 85.15 | 0.11 | 1.55E-04 | 9.37E-09 | 1.5E-05 | 7.4E-10 | 5.7E-01 | 2.7E-05 | 1.3E-09 |
| Ethylbenzene | 418996.88 | 32.61 | 0.11 | 4.61E-05 | 3.59E-09 | 4.6E-06 | 2.8E-10 | 2.9E-01 | 1.6E-05 | 9.8E-10 |
| Xylenes (total) | 2660266.8 | 113.94 | 0.11 | 2.93E-04 | 1.25E-08 | 2.9E-05 | 9.9E-10 | 8.6E-02 | 3.4E-04 | 1.2E-08 |
| 4,4'-DDT | 160.15 | 29.62 | 0.11 | 1.76E-08 | 3.26E-09 | 1.7E-09 | 2.6E-10 | 1.0E-03 | 1.7E-06 | 2.6E-07 |
| | | | | | | | | TOTAL: | 5.0E+00 | 4.0E-01 |

AIR CONCENTRATION = (Soil Concentration x CF x Dust Concentration)

CDI = (Air Concentration x IR x ET x EF x ED) / (BW x AT)

RME = Reasonable Maximum Exposure

RAE = Representative Average Exposure

EXPOSURE ASSUMPTIONS

| MAXIMUM | AVERAGE | |
|---|---|---|
| 2.02 | 2.02 | IR = INHALATION RATE (m³/hour) |
| 10 | 8 | ET = EXPOSURE TIME (hours/day) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 730 | 365 | AT = AVERAGING TIME (days) |

# TABLE H-17
## GM - LINDEN ROAD SITE
## SHORT-TERM SITE WORKER EXPOSURE
## INHALATION OF AIRBORNE (PARTICULATE PHASE) CHEMICALS
## CARCINOGENIC RISK
## ADULT - FUTURE

| CONTAMINANTS | SOIL CONCENTRATION | | DUST CONCENTRATION (mg/m³) | AIR CONCENTRATION (mg/m³) | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg/day) | CANCER SLOPE FACTOR (CSF) (mg/kg/day)-1 | LIFETIME CANCER RISK (SDI x CSF) | LIFETIME CANCER RISK (SDI x CSF) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | Reasonable Maximum Concentration | Representative Average Concentration | RME | RAE | | RME | RAE |
| Inorganics (mg/kg) | | | | | | | | | | |
| Arsenic | 26.67 | 13.29 | 0.11 | 2.93E-06 | 1.46E-06 | 8.3E-09 | 1.7E-09 | 5.0E+01 | 4.1E-07 | 8.3E-08 |
| Beryllium | 1.3 | 0.63 | 0.11 | 1.43E-07 | 9.13E-08 | 4.0E-10 | 1.0E-10 | 8.4E+00 | 3.4E-09 | 8.7E-10 |
| Cadmium | 7.26 | 1.45 | 0.11 | 7.99E-07 | 1.60E-07 | 2.3E-09 | 1.8E-10 | 6.1E+00 | 1.4E-08 | 1.1E-09 |
| Chromium (VI) | 247.13 | 20.21 | 0.11 | 2.72E-05 | 2.22E-06 | 7.7E-08 | 2.5E-09 | 4.1E+01 | 3.1E-06 | 1.0E-07 |
| Nickel (subsulfide) | 905.12 | 183.32 | 0.11 | 9.96E-05 | 2.02E-05 | 2.8E-07 | 2.3E-08 | 1.7E+00 | 4.8E-07 | 3.9E-08 |
| Organics (µg/kg) | | | | | | | | | | |
| Benz(a)Anthracene | 27524.95 | 3009.04 | 0.11 | 3.03E-06 | 3.31E-07 | 8.5E-09 | 3.7E-10 | 8.8E-01 | 7.6E-09 | 3.3E-10 |
| Chrysene | 27957.59 | 2570.65 | 0.11 | 3.08E-06 | 2.83E-07 | 8.7E-09 | 3.2E-10 | 2.7E-02 | 2.3E-10 | 8.6E-12 |
| Benzo(b)Fluoranthene | 28515.8 | 2524.25 | 0.11 | 3.14E-06 | 2.78E-07 | 8.9E-09 | 3.1E-10 | 8.5E-01 | 7.6E-09 | 2.7E-10 |
| Benzo(k)Fluoranthene | 17282.13 | 1982.53 | 0.11 | 1.90E-06 | 2.18E-07 | 5.4E-09 | 2.5E-10 | 4.0E-01 | 2.2E-09 | 9.9E-11 |
| Benzo(a)pyrene | 25298.74 | 2282.93 | 0.11 | 2.78E-06 | 2.51E-07 | 7.9E-09 | 2.8E-10 | 6.1E+00 | 4.8E-08 | 1.7E-09 |
| Indeno(1,2,3-cd)Pyrene | 22741.64 | 2384.27 | 0.11 | 2.50E-06 | 2.62E-07 | 7.1E-09 | 3.0E-10 | 1.4E+00 | 1.0E-08 | 4.2E-10 |
| Dibenz(a,h)Anthracene | 14319.49 | 1689.69 | 0.11 | 1.58E-06 | 1.86E-07 | 4.4E-09 | 2.1E-10 | 6.8E+00 | 3.0E-08 | 1.4E-09 |
| Methylene Chloride | 4343265.1 | 140.27 | 0.11 | 4.78E-04 | 1.54E-08 | 1.3E-06 | 1.7E-11 | 1.6E-03 | 2.2E-09 | 2.8E-14 |
| Chloroform | 7840.22 | 7.57 | 0.11 | 8.62E-07 | 8.33E-10 | 2.4E-09 | 9.4E-13 | 8.1E-02 | 2.0E-10 | 7.6E-14 |
| Trichloroethene | 4661.23 | 35.48 | 0.11 | 5.13E-07 | 3.90E-09 | 1.4E-09 | 4.4E-12 | 1.7E-02 | 2.5E-11 | 7.5E-14 |
| Benzene | 3320.02 | 8.09 | 0.11 | 3.65E-07 | 8.90E-10 | 1.0E-09 | 1.0E-12 | 2.9E-02 | 3.0E-11 | 2.9E-14 |
| Tetrachloroethene | 21.08 | 7.03 | 0.11 | 2.32E-09 | 7.73E-10 | 6.5E-12 | 8.7E-13 | 1.8E-03 | 1.2E-14 | 1.6E-15 |
| 1,1,2,2-Tetrachloroethane | 20.85 | 6.49 | 0.11 | 2.29E-09 | 7.14E-10 | 6.5E-12 | 8.1E-13 | 2.0E-01 | 1.3E-12 | 1.6E-13 |
| alpha-BHC | 117.54 | 29.51 | 0.11 | 1.29E-08 | 3.25E-09 | 3.7E-11 | 3.7E-12 | 6.3E+00 | 2.3E-10 | 2.3E-11 |
| 4,4'-DDT | 160.15 | 29.62 | 0.11 | 1.76E-08 | 3.26E-09 | 5.0E-11 | 3.7E-12 | 3.4E-01 | 1.7E-11 | 1.3E-12 |
| | | | | | | | | TOTAL: | 4.2E-06 | 2.3E-07 |

AIR CONCENTRATION = (Soil Concentration x CF x Dust Concentration)

CDI = (Air Concentration x IR x ET x EF x ED) / (BW x AT)

RME = Reasonable Maximum Exposure

RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 2.02 | 2.02 | IR = INHALATION RATE (m³/hour) |
| 10 | 8 | ET = EXPOSURE TIME (hours/day) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |

TABLE H-18

## GM – LINDEN ROAD SITE
## SHORT–TERM SITE WORKER EXPOSURE
## DERMAL CONTACT WITH CHEMICALS IN SURFACE WATER
## NON– CARCINOGENIC RISK
## ADULT – FUTURE

| CONTAMINANTS | WATER CONCENTRATION (µg/L) | | PERMEABILITY CONSTANT (PC) (cm/hr) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg–day) | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg–day) | SUBCHRONIC REFERENCE DOSE (RfD) (mg/kg–day) | HAZARD INDEX (SDI / RfD) | HAZARD INDEX (SDI / RfD) |
|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | RAE | | | RME | RAE |
| Organics | | | | | | | | | |
| Carbon Disulfide | 45.39 | 9.35 | 5.50E–02 | 4.7E–08 | | 9.7E–09 | 1.0E–01 | 4.7E–07 | 9.7E–08 |
| 4–Methylphenol | 13 | 13 | 1.75E–01 | 4.3E–08 | | 4.3E–08 | 2.5E–01 | 1.7E–07 | 1.7E–07 |
| bis(2–Ethylhexyl)phthalate | 3 | 3 | 8.00E–04 | 4.5E–11 | | 4.5E–11 | 1.0E–02 | 4.5E–09 | 4.5E–09 |
| Naphthalene | 2 | 2 | 8.00E–04 | 3.0E–11 | | 3.0E–11 | 2.0E–02 | 1.5E–09 | 1.5E–09 |
| | | | | | | | TOTAL: | 6.5E–07 | 2.8E–07 |

CDI = (Water Concentration x SA x PC X ET x EF x ED x CF x VF) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 3870 | 1885 | SA = SKIN SURFACE AREA ($cm^2$) |
| 1.0 | 0.8 | ET = EXPOSURE TIME (hours/day) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 0.001 | 0.001 | CF = CONVERSION FACTOR (mg/µg) |
| 0.001 | 0.001 | VF = VOLUMETRIC CONVERSION FACTOR ($L/cm^3$) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 730 | 365 | AT = AVERAGING TIME (days) |

TABLE H-19

GM – LINDEN ROAD SITE
SHORT–TERM SITE WORKER EXPOSURE
DERMAL CONTACT WITH CHEMICALS IN SURFACE WATER
CARCINOGENIC RISK
ADULT – FUTURE

| CONTAMINANTS | WATER CONCENTRATION (µg/L) | | PERMEABILITY CONSTANT (PC) (cm/hr) | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg–day) | | SUBCHRONIC DAILY INTAKE (SDI) (mg/kg–day) | CANCER SLOPE FACTOR (CSF) (mg/kg–day)–1 | LIFETIME CANCER RISK (SDI x CSF) | | LIFETIME CANCER RISK (SDI x CSF) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reasonable Maximum Concentration | Representative Average Concentration | | RME | | RAE | | RME | | RAE |
| Organics | | | | | | | | | | |
| bis(2–Chloroethyl)ether | 5 | 5 | 8.00E–04 | 2.2E–12 | | 4.2E–13 | 1.1E+00 | 2.4E–12 | | 4.6E–13 |
| bis(2–Ethylhexyl)phthalate | 3 | 3 | 8.00E–04 | 1.3E–12 | | 2.5E–13 | 2.8E–02 | 3.6E–14 | | 7.0E–15 |
| alpha–BHC | 0.01 | 0.01 | 6.20E–04 | 3.4E–15 | | 6.5E–16 | 1.3E+01 | 4.4E–14 | | 8.4E–15 |
| | | | | | | | TOTAL: | 2.5E–12 | | 4.7E–13 |

CDI = (Water Concentration x SA x PC X ET x EF x ED x CF x VF) / (BW x AT)
RME = Reasonable Maximum Exposure
RAE = Representative Average Exposure

| EXPOSURE ASSUMPTIONS | | |
|---|---|---|
| MAXIMUM | AVERAGE | |
| 3870 | 1865 | SA = SKIN SURFACE AREA ($cm^2$) |
| 1.0 | 0.8 | ET = EXPOSURE TIME (hours/day) |
| 125 | 125 | EF = EXPOSURE FREQUENCY (days/year) |
| 2 | 1 | ED = EXPOSURE DURATION (years) |
| 0.001 | 0.001 | CF = CONVERSION FACTOR (mg/µg) |
| 0.001 | 0.001 | VF = VOLUMETRIC CONVERSION FACTOR ($L/cm^3$) |
| 70 | 70 | BW = BODY WEIGHT (kg) |
| 25550 | 25550 | AT = AVERAGING TIME (days) |